NOISE SUPPLEMENTAL INFORMATION

APPENDIX I

Noise Supplemental Information

Appendix I.1 Noise and Vibration Impact Assessment Report

Appendix I.2 Noise Modeling

NOISE SUPPLEMENTAL INFORMATION

APPENDIX I.1

APPENDIX I. I
Noise and Vibration Impact Assessment Report



LS Power Grid California, LLC

Noise and Vibration Impact Assessment Report

Collinsville 500/230 Kilovolt Substation Project Solano, Sacramento, and Contra Costa Counties, California

Revision 7

September 24, 2024

Noise and Vibration Impact Assessment Report

Collinsville 500/230 Kilovolt Substation Project Solano, Sacramento, and Contra Costa Counties, California

September 24, 2024

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Acronyms and Abbreviations

ANSI American National Standards Institute BPA Bonneville Power Administration Cadna/A Computer Aided Noise Abatement CAISO California Independent System Operator California Department of Transportation Caltrans **CEQA** California Environmental Quality Act **CNEL** Community Noise Equivalent Level California Public Utilities Commission **CPUC**

dB Decibel (Unweighted)
dBA Decibel (A-weighted)

FHWA Federal Highway Administration FTA Federal Transit Administration

Gal Gallon

GIS Gas-Insulated Switchgear

HP Horsepower

HVAC Heating, Ventilation, and Air Conditioning

Hz Hertz

ID Identification

ISO International Organization for Standardization

kV Kilovolt Lb Pound

 $\begin{array}{ll} L_{\text{dn}} \text{ or DNL} & \text{Day-Night Sound Level} \\ L_{\text{eq}} & \text{Equivalent Sound Level} \end{array}$

L_{eq(day)} Continuous Equivalent Sound Level Between 07:00 AM and 10:00 PM L_{eq(night)} Continuous Equivalent Sound Level Between 10:00 PM and 07:00 AM

 $\begin{array}{lll} L_{\text{max}} & & \text{Maximum Sound Level} \\ L_{\text{PA}} & & \text{Sound Pressure Level} \\ L_{\text{WA}} & & \text{Sound Power Level} \end{array}$

L_x Sound Level Exceed x Percent of a Specified Time Period

LSPGC LS Power Grid California, LLC

MVA Mega Volt Ampere

NM1, NM2 Noise Measurement Location 1, Noise Measurement Location 2

NVIA Noise and Vibration Impact Assessment

ONAN Oil Natural Air Natural

ONAF Oil Natural Air Forced (First Stage Cooling)
ONAF2 Oil Natural Air Forced (Second Stage Cooling)

PG&E Pacific Gas and Electric Company

PPV Peak Particle Velocity

R Receptor

RCNM Roadway Construction Noise Model

ROW Right-of-Way SLM Sound Level Meter

USEPA United States Environmental Protection Agency WSDOT Washington State Department of Transportation

Yd Yard

Executive Summary

Arcadis Inc. (Arcadis), on behalf of LS Power Grid California, LLC (LSPGC), a wholly owned subsidiary of LS Power, has prepared this noise and vibration impact assessment (NVIA) report to evaluate noise and vibration impacts for the Collinsville 500/230 Kilovolt (kV) Substation Project (Proposed Project) in portions of Solano, Sacramento, and Contra Costa Counties, California. The Proposed Project involves the construction of a substation and transmission lines to address the California Independent System Operator (CAISO)-identified overloads in the Greater Bay Area by increasing transmission reliability for the area and advancing additional renewable generation.

The Collinsville Substation would occupy approximately 11 acres of land. This NVIA report provides an evaluation of the potential noise and vibration impacts from the Proposed Project during construction, operation, and maintenance based on standards of impact significance derived from Appendix G of the California Environmental Quality Act (CEQA) Noise Guidelines.

Arcadis identified locations of sensitive receptors using aerial maps and geographic information systems. Four (4) sensitive receptors (a cultural resource site, two residential areas and one cemetery) were identified within one mile (5,280 feet) radius from the new substation boundary and one (1) sensitive receptor (the cultural resource site) was identified within a quarter mile (1,320 feet) of the new overhead transmission lines. The cemetery is also approximately 590 feet northwest of a new 12 kV distribution extension to the proposed LSPGC Collinsville Substation. Additionally, one (1) sensitive receptor (residential area with multiple single-family homes) was identified within a half-mile (2,640 feet) of the southern edge of the Sacramento River and San Joaquin confluence where open trenching methods of construction would be used to connect the submarine cables to an onshore underground utility vault. The residential area is also 20 to 50 feet east of telecommunication line extension and approximately 2,000 feet from PG&E's existing Pittsburg Substation modifications (i.e., in the vicinity of the interconnections with new lines).

The Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) User's Guide was used to calculate the Proposed Project construction noise levels. Input variables for the RCNM consist of the receptor/land use types, the equipment type, number of units operating concurrently, the acoustical usage factor for each piece of equipment, and the distance between the construction activity and sensitive receptor. The California Department of Transportation's (Caltrans) Transportation and Construction Vibration Guidance Manual was used to calculate construction vibration from the Proposed Project.

A three-dimensional industrial noise model, Computer Aided Noise Abatement (Cadna/A), was built for the new Collinsville Substation combining digital elevation data with the sound source specifications and coordinates, sensitive receptor coordinates, and sound propagation parameters to generate a sound model for the Proposed Project. The resulting model was then used to perform sound emission calculations using International Organization for Standardization (ISO) 9613-2 method. Corona-generated audible noise from the new 230 kV overhead transmission and 500 kV overhead interconnection lines was predicted using methods and equations developed by the Bonneville Power Administration (BPA). The BPA audible noise calculation method is an empirical method developed from long-term statistical measurements on a number of full-scale operating or test transmission lines.

The findings of this NVIA report are that under CEQA, the noise impact associated with the construction, operation, and maintenance of the Proposed Project would be less than significant. Similarly, vibration impact associated with construction of the Proposed Project would be less than significant; however, vibration from the Proposed Project's operation and maintenance would result in no impact.

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1 Introduction

LS Power Grid California, LLC (LSPGC), a wholly owned subsidiary of LS Power established to own and operate transmission projects in California, is proposing the Collinsville 500/230 kilovolt (kV) Substation Project (Proposed Project) to be located in portions of Solano, Sacramento, and Contra Costa Counties, California. The Proposed Project involves the construction of a substation and transmission lines to address the California Independent System Operator (CAISO)-identified overloads in the Greater Bay Area by increasing transmission reliability for the area and advancing additional renewable generation.

The main components of the Proposed Project include:

- A new approximately 11-acre 500/230 kV substation (LSPGC Collinsville Substation);
- Two approximately 1.5-mile-long single-circuit 500 kV transmission line segments that would extend Pacific
 Gas and Electric Company's (PG&E's) existing Vaca Dixon-Tesla 500 kV Transmission Line to the proposed
 LSPGC Collinsville Substation; 1
- A new approximately 6-mile-long double-circuit 230 kV transmission line connecting the proposed LSPGC Collinsville Substation to PG&E's existing Pittsburg Substation. The new 230 kV transmission line would include:
 - An approximately 1- to 2-mile-long overhead transmission line segment, that would connect the proposed LSPGC Collinsville Substation to the in-river transition structure (north side of the Sacramento River),
 - One steel in-river transition structure to transition the overhead conductors to submarine cables on the northern edge of the Sacramento River,
 - Six approximately 4.5-mile-long submarine cables installed approximately 6 to 15 feet below the sediment surface, and
 - An onshore underground utility vault near PG&E's existing Pittsburg Substation to connect the submarine cables to underground cables that would terminate at approximately two new riser poles adjacent to PG&E's existing Pittsburg Substation; and
- A new 12 kV distribution line, connecting an existing PG&E distribution line to the proposed LSPGC Collinsville Substation; and
- A telecommunications line extension, connecting existing 3rd party fiber to the proposed LSPGC Collinsville Substation.

This noise and vibration impact assessment (NVIA) report focuses on the Proposed Project's impact on airborne noise and groundborne vibration in the surrounding community. The NVIA report does not include the Proposed Project's impacts on underwater sound and its effect on aquatic species during in-river construction of the submarine cables.

For the purpose of this report, the proposed LSPGC Collinsville 500/230 kV Substation is referred to as Collinsville Substation or new substation. The proposed LSPGC new 230 kV overhead transmission line is referred to as the proposed LSPGC 230 kV Overhead Segment. The proposed PG&E 500 kV overhead

¹ PG&E would be responsible for the final configuration of the northern tie in of the 500 kV loop-in between the proposed Collinsville Substation and the existing Vaca Dixon-Tesla 500 kV Transmission Line. LS Power would be responsible for the installation of dead-end structures near the Collinsville Substation to facilitate looping in the 500 kV lines.

interconnecting line is referred to as the proposed PG&E 500 kV Interconnection. The underground portion is referred to as the proposed LSPGC 230 kV Underground Segment or 230 kV Southern Construction.

Arcadis was retained by LSPGC to prepare a NVIA report for the Proposed Project as part of the Proponent's Environmental Assessment that would be submitted to the California Public Utilities Commission (CPUC). The Collinsville Substation would include seven single phase 500/230 kV autotransformers (six operating, one spare), one 500 kV series capacitors bank, one control enclosure, 500 kV gas-insulated switchgear (GIS) enclosure, 230 kV GIS enclosure, and two 10-ohm series reactors per 230 kV line (triangle arrangement). The Collinsville Substation would be surrounded by a prefabricated interlocking security wall that would be 10 feet tall with 1 foot of barbed wire on top. The access gate would have an opening of 16 feet in width.

The Collinsville Substation construction would require the entire approximately 11-acre substation site to be cleared of all vegetation and graded to create a generally flat area for the substation components. In addition, a new access road to the substation would be constructed. Next, the ground grid, equipment foundations, and cable trenches would be installed. Once the below-grade construction is complete, the above ground substation components would be installed. Finally, testing and commissioning would be conducted once the transmission lines are terminated at the substation prior to energization.

The overhead transmission lines would be constructed on land within an approximately 120-foot-wide right-of-way and would require new temporary access roads and work areas to be established at each structure location. This process would involve vegetation clearing and blading, as required to create a flat area to facilitate construction. For the overhead structures, one or more foundations for each structure would be constructed prior to the erection of lattice steel structures or self-supporting, steel monopoles. Typically, 230 kV transmission structures range from 160 to 180 feet in height and could be up to 199 feet tall when crossing other infrastructure. The 500 kV structures for the Proposed Project would typically be larger than the 230 kV structures, ranging between 100 and 199 feet in height. The 500 kV structures would typically utilize a horizontal conductor configuration and the 230 kV poles would use a vertical conductor configuration. Finally, the conductors and two optical ground wires would be strung along the proposed LSPGC 230 kV Overhead Segment alignment. Following construction, an approximately 20-foot radius around the new structures would remain cleared to facilitate future operation and maintenance.

In-water work for the submarine cables would include the construction of an in-river transition structure mounted on a pier supported concrete cap on the northern side of the Sacramento River. The submarine cables would be trenched under the riverbed using a hydroplow and water jetting or vertical injector methods with no backfilling required. Near the southern edge of the Sacramento River and San Joaquin River confluence, open trenching methods of construction would be used to connect the submarine cables to an onshore underground utility vault (i.e., the proposed LSPGC 230 kV Underground Segment). The cables would then continue in an underground configuration to designated locations near the fence of PG&E's existing Pittsburg Substation. The Proposed Project also includes construction of a 12 kV distribution extension to the Collinsville Substation, a telecommunications line extension that goes through the underground utility vault onto the LSPGC Collinsville Substation, and modifications to the Pittsburg Substation.

The Proposed Project would also require the establishment of temporary staging areas, stringing sites, access roads, and construction areas to utilize during construction. All temporarily impacted areas would be restored to near pre-construction conditions after work is complete.

The current land uses around the proposed Collinsville Substation site include natural resource land areas (including Suisun Marsh and the Sacramento River and San Joaquin River waterways), utility operations,

residences, wind farms, and agricultural lands. The Proposed Project would connect to PG&E's existing Pittsburg Substation, which is surrounded by industrial land uses; bordered by recreational areas and parks (including Pittsburg Marina, Pittsburg Riverview Park, and Marina Walk Park), St. Peter Martyr School, downtown low-density and medium-density residential uses, and marine commercial land uses to the east; and bordered by service commercial, mixed use, business commercial, and low-density residential to the south. The areas surrounding the proposed submarine cable and in-river transition structure include tidal marsh, open water, and benthic habitats.

A Project Overview map showing the location of the Collinsville Substation site, new transmission lines, and interconnection lines is included in **Figure 1**. The Proposed Project components are depicted in more detail in **Figure 2**.

The nearest sensitive receptors to the Collinsville Substation site and new transmission and interconnection lines are shown in **Figure 3**. The noise and vibration study area for the Proposed Project covers one mile (5,280 feet) radius of the new substation; a quarter mile (1,320 feet) of the proposed LSPGC 230 kV Overhead Segment, proposed PG&E 500 kV Interconnection, telecommunication line extension, and distribution line extension; and one-half mile (2,640 feet) of the proposed LSPGC 230 kV Underground Segment where open trenching methods of construction would be used to connect the submarine cables to an onshore underground utility vault. The nearest sensitive receptors to the center of the Collinsville Substation site include one cultural resource site called Hastings Adobe (nominated to the National Register of Historic Places in 1972; depicted as R1 in **Figure 3**), two residential areas (depicted as R2 and R3 in **Figure 3**), and one cemetery (depicted as R4 in **Figure 3**). The distance and direction of the nearest receptors to the center of the new substation are listed below:

- R1 (Hastings Adobe, a cultural resource site) is approximately 1,790 feet southeast of the new substation center.
- R2 (single-family residences along Latin Road) is approximately 4,175 feet southwest of the new substation center.
- R3 (single-family residences along Collinsville Road) is approximately 4,280 feet west-southwest of the new substation center.
- R4 (St. Charles Borromeo Catholic Cemetery along Abruzzini Hill Road, off Collinsville Road) is approximately 4,700 feet west-northwest of the substation center. The cemetery is also approximately 590 feet northwest of a new 12 kV distribution extension to the Collinsville Substation.

The nearest receptor to the proposed LSPGC 230 kV Overhead Segment and the proposed PG&E 500 kV Interconnection is approximately 555 feet south and 1,950 feet south, respectively (R1 in **Figure 3**). The nearest receptor to the proposed LSPGC 230 kV Underground Segment or 230 kV southern construction (open trench method) is a residential area with multiple single-family residences on Halsey Court/Halsey Way, approximately 1,370 feet east-southeast (R5 in **Figure 3**). The residential area (R5) is also 20 to 50 feet east of the telecommunication line extension construction activities and 2,000 feet southeast of the Pittsburg Substation modifications.

The objectives of this NVIA report are as follows:

- Identify applicable noise and vibration regulations.
- Estimate Project-related noise and vibration levels at nearest sensitive receptors during construction, operation, and maintenance.

Noise and Vibration Impact Assessment Report

 Determine whether the Proposed Project can operate in compliance with the applicable noise and vibration regulatory standards and CEQA impact significance thresholds and recommend mitigation measures if needed.

This NVIA report includes a description of the Proposed Project site, noise and vibration fundamentals, applicable regulations and standards, existing noise and vibration conditions, modeling and impact significance analysis for construction, operations and maintenance, and concluding comments.

2 Fundamentals of Noise and Vibration

2.1 Basic Noise Concepts

The terms 'sound' and 'noise' tend to be used interchangeably, but noise can be defined as unwanted sound, whereas sound is a normal and desirable part of life. However, when noise is imposed on people it can lead to disturbance, annoyance, and other undesirable effects. Sound is physically characterized by amplitude and frequency. The amplitude of sound is measured in decibels (dB) as the logarithmic ratio of a sound pressure to a reference sound pressure (20 micro-Pascals). The reference sound pressure corresponds to the typical threshold of human hearing. To the average listener, a 3-dB change in a continuous broadband sound is considered "just barely perceptible"; a 5-dB change is considered "clearly noticeable"; and a 10-dB change is considered a doubling (or halving if the sound is decreasing) of the apparent loudness and can cause an adverse response. Sound waves can occur at different frequencies, which correspond to the sound's wavelength. Frequency is measured in Hertz (Hz), which is the number of wave cycles per second that occur. The typical human ear can hear frequencies ranging from approximately 20 to 20,000 Hz. Normally, the human ear is most sensitive to sounds in the middle frequencies (1,000 to 8,000 Hz) and is less sensitive to sounds in the lower and higher frequencies. As such, the A-weighting scale was developed to simulate the frequency response of the human ear to sounds at typical environmental levels. The A-weighting scale emphasizes sounds in the middle frequencies and de-emphasizes sounds in the low and high frequencies. Any sound level to which the A-weighting scale has been applied is expressed in A-weighted decibels, or dBA. Sound levels and relative loudness of common noise sources are presented for reference in Table 2-1.

Table 2-1. Sound Levels of Common Noise Sources

Common Noise Source	Noise Levels, dBA
Threshold of pain	140
Jet taking off (200 feet away)	130
Operating heavy equipment	120
Night club (with music)	110
Construction site	100
Boiler room	90
Freight train (100 feet away)	80
Classroom chatter	70
Conversation (3 feet away)	60
Urban residence	50
Soft whisper (5 feet away)	40
North Rim of Grand Canyon	30
Silent study room	20
Threshold of human hearing (1,000 Hertz)	0

Notes

dBA = A-weighted decibel

Source: U.S. Department of Labor, Occupational Safety and Health Administration 2013

Sound can be characterized in terms of sound power level and sound pressure level. The sound power level is a measure of the total power radiated by a source. The sound power level is a fundamental property of the source and is independent of the surrounding environment. The sound pressure level is the level of sound pressure, as measured at a distance by a standard sound level meter with a microphone. This differs from the sound power level in that it is the received sound as opposed to the sound intensity at the source.

A given level of noise may be more or less tolerable depending on the sound level, duration of exposure, character of the noise sources, time of day during which the noise is experienced, and activity affected by the noise. For example, noise that occurs at night tends to be more disturbing than that which occurs during the day because sleep could potentially be disturbed.

Since sound in the environment often varies over time, statistical noise descriptors have been developed to quantify fluctuating environmental sound levels. The most commonly used indices for measuring community noise levels include the following:

- L_{eq}: The equivalent sound level is used to describe noise over a specified period of time, in terms of a single numerical value. The L_{eq} is the constant sound level, which would contain the same acoustic energy as the varying sound level, during the same time period (i.e., the average noise exposure level for the given time period).
- L_{dn} or DNL: The day-night noise level or the energy average of the A-weighted sound levels occurring during
 a 24-hour period, which accounts for the greater sensitivity of most people to nighttime noise by weighting
 noise levels at night ("penalizing" nighttime noises). Noise between 10:00 p.m. and 7:00 a.m. is weighted
 (penalized) by adding 10 dBA to consider the greater annoyance of nighttime noises.
- **CNEL**: The Community Noise Equivalent Level, which is similar to the L_{dn}, adds a 5-dBA penalty for the evening hours between 7:00 p.m. and 10:00 p.m. in addition to the 10-dBA penalty between the hours of 10:00 p.m. and 7:00 a.m.²
- L_x: The sound level that is equaled or exceeded x percent of a specified time period. The L₅₀ represents the median sound level (i.e., the noise level exceeded 50 percent of the time, or 30 minutes out of an hour).
- L_{max}: The instantaneous maximum noise level measured during the measurement period of interest.

2.2 Basic Vibration Concepts

Vibration is defined as any oscillatory motion induced in a structure or mechanical device as a direct result of some type of input excitation such as forces, moments, or pressure fields. Vibration is transmitted through solid material such as the ground by wave motion, giving rise to the terminology of "groundborne" vibration. Consequently, the term "vibration" and groundborne vibration" are the same and are therefore, used interchangeably in this NVIA report. Groundborne vibration propagates from sources such as railways and impact pile driving through the ground into nearby structures and buildings. Soil properties affect the propagation of groundborne vibration. The vibration energy spreads out as it travels through the ground, causing the vibration amplitude to decrease with distance away from the source. When groundborne vibration interacts with a building there is usually a ground-to-foundation coupling loss, but the vibration can also be amplified by the structural resonances of the walls and floors. Vibration in buildings is typically perceived as the rattling of windows or items

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 $^{^2}$ For typical community noise environments, the CNEL and L_{dn} levels are nearly always within 1 dB of each other and, therefore, are commonly used interchangeably (as would be the case in this NVIA report).

Noise and Vibration Impact Assessment Report

on shelves or the motion of building surfaces. Vibration of building surfaces can also be radiated as sound and heard as a low-frequency rumbling noise, known as groundborne noise.

Groundborne vibrations transmitted from site activities to the neighborhood can cause anxiety as well as annoyance, and can disturb sleep, work, or leisure activities. Groundborne vibration can be expressed in terms of the peak particle velocity (PPV) of the soil particles resulting from a disturbance in inches per second. Agencies such as California Department of Transportation (Caltrans) use the PPV descriptor because it correlates well with damage and complaints due to vibration.

3 Regulatory Setting

Federal, state, and local noise and vibration regulations were reviewed to determine the applicable sound level limits for the Proposed Project.

3.1 Federal Regulations

There are no federal noise standards that directly regulate noise from the operation of electrical transmission lines and substation facilities. However, in 1974 the United States Environmental Protection Agency (USEPA) established guidelines for noise levels, defined to protect public health and welfare with an adequate margin of safety. The USEPA established criteria for protecting public health and wellbeing. The USEPA guideline recommends a L_{dn} of 55 dBA to protect the public from the effect of broadband environmental noise outdoors in residential areas and farms, and other outdoor areas where people spend widely varying amounts of time, and other places in which quiet is a basis for use (USEPA, 1974). However, these criteria do not constitute enforceable Federal regulations or standards. The USEPA has since delegated regulatory authority to local entities. Therefore, no Federal noise regulations apply to the Proposed Project.

3.2 State Regulations

3.2.1 California Public Utilities Commission

The CPUC General Order 131-D, (GO 131-D), Section XIV.B states: "Local jurisdictions acting pursuant to local authority are preempted from regulating electric power line projects, distribution lines, substations, or electric facilities constructed by public utilities subject to the Commission's jurisdiction. However, in locating such projects, the public utilities shall consult with local agencies regarding land use matters." Therefore, public utilities are directed to consider local regulations and consult with local agencies.

3.2.2 California Government Code Section 65302

California Government Code Section 65302 encourages counties and cities to implement a noise element as part of the general plan. In addition, the California Governor's Office of Planning and Research has developed guidelines for preparing noise elements, which include recommendations for evaluating the compatibility of various land uses as a function of community noise exposure.

3.2.3 California Department of Transportation and Construction-Induced Vibration Guidance

Caltrans provides practical guidance to engineers, planners, and consultants who must address vibration issues associated with the construction, operation, and maintenance of Caltrans-related projects. The guideline vibration criteria in Caltrans' Transportation and Construction Vibration Guidance Manual (Caltrans 2020) have been used to assess the effects of vibration during the Proposed Project construction. Vibration was assessed for two potential effects:

- 1. human annoyance (disturbance or discomfort); and
- 2. cosmetic or structural damage.

Vibration also has the potential to disrupt the operation of vibration-sensitive research and advanced technology equipment such as optical microscopes, cell probing devices, magnetic resonance imaging machines, scanning electron microscopes, photolithography equipment, micro-lathes, and precision milling equipment (Caltrans 2020).

However, there is no known vibration-sensitive research and advanced technology equipment within the Proposed Project vicinity; therefore, vibration criteria and effects on such receptors are not discussed further.

Table 3-1 presents guideline vibration criteria to assess cosmetic or structural damage potential from ground vibration induced by construction equipment. In terms of human perception (i.e., annoyance), **Table 3-2** provides guidance on the effects of ground vibration levels due to use of heavy equipment. The guideline vibration criteria in **Tables 3-1** and **3-2** are applicable to continuous and frequent intermittent sources such as construction equipment and passing heavy vehicles that would be used during the Proposed Project construction. For the purpose of this NVIA, continuous or frequent intermittent vibration sources are significant when their PPV exceeds the vibration damage criterion of 0.3 inch per second for older residential structures and/or when it exceeds the vibration annoyance criterion of 0.01 inch per second for a barely perceptible human response.

Table 3-1. Guideline Vibration Damage Potential Threshold Criteria

Structure and Condition	Maximum PPV for Continuous/ Frequent Intermittent Sources (inches per second)
Extremely fragile historic buildings, ruins, ancient monuments	0.08
Fragile buildings	0.1
Historic and some old buildings	0.25
Older residential structures	0.3
New residential structures	0.5
Modern industrial/commercial buildings	0.5

Notes:

PPV = peak particle velocity Source: Caltrans 2020

Table 3-2. Guideline Vibration Annoyance Potential Criteria

Human Response	Maximum PPV for Continuous/ Frequent Intermittent Sources (inches per second)		
Barely perceptible	0.01		
Distinctly perceptible	0.04		
Strongly perceptible	0.10		
Severe	0.4		

Notes:

PPV = peak particle velocity Source: Caltrans 2020

3.3 Local Regulations

The Proposed Project is located in portions of Solano, Sacramento, and Contra Costa Counties, California. Relevant noise standards and policies for three counties are described below.

3.3.1 Solano County General Plan Noise Element

The County of Solano General Plan Noise Element Table HS-5 (listed in **Table 3-3** below) establishes an acceptable outdoor area noise level of 55 dBA L_{eq} for daytime (7:00 a.m. to 10:00 p.m.) and 50 dBA L_{eq} for

nighttime (10:00 p.m. to 7:00 a.m.) for non-transportation noise sources. The standards shall be reduced by 5 dB for sounds consisting primarily of speech or music, and for recurring impulsive sounds. If the existing ambient noise level exceeds the standards, then the noise level standards shall be increased at 5 dBA increments to encompass the ambient.

Table 3-3. Solano County Noise Element - Non-Transportation Noise Standards (Average [Leq, dBA] / Maximum [Lmax, dBA])

	Outdo	or Area ¹	Interior ^{1,2}	
Receiving Land Use	Daytime	Nighttime	Interior Day and Night	Notes
All Residential	55 / 70	50 / 70	35 / 55	
Transient Lodging	55 / 75		35 / 55	3
Hospitals & Nursing Homes	55 / 75		35 / 55	4,5
Theaters & Auditoriums			30 / 50	5
Churches, Meeting Halls, Schools, Libraries, etc.	55 / 75		35 / 60	5
Office Buildings	60 / 75		45 / 65	5
Commercial Buildings	55 / 75		45 / 65	5
Playgrounds, Parks, etc.	60 / 75			5
Industry	60 / 80		50 / 70	5

Notes:

Source: Solano County 2015.

L_{eq} = equivalent or energy-average sound level; L_{max} = Highest root-mean-square sound level measured over a given period of time.

- 1. The noise standards shall be reduced by 5 dBA for sounds consisting primarily of speech or music, and for recurring impulsive sounds. If the existing ambient noise level exceeds the noise standards, then the noise level standards shall be increased at 5-dBA increments to encompass the ambient.
- 2. Interior noise level standards are applied within noise-sensitive areas of the various land uses, with windows and doors in closed positions.
- 3. Outdoor activity areas of transient lodging facilities are not commonly used during nighttime hours.
- 4. Hospitals are often noise-generating uses. The exterior noise level standards for hospitals are applicable only at clearly identified areas designated for outdoor relaxation by either hospital staff or patients.
- 5. The outdoor activity areas of these uses (if any) are not typically utilized during nighttime hours.

3.3.2 Solano County Noise Ordinance

The Solano County Noise, Section 28.1-40, provides an exterior noise level standard of 55 dBA Leq between 7:00 a.m. and 7:00 p.m. and an exterior noise level standard of 50 dBA Leq between 7:00 p.m. and 7:00 a.m. for residential and agricultural zoning districts (Solano County, 2017). If the measured ambient noise level at the time of complaint investigation exceeds the identified permissible noise for that zone, the allowable noise standard shall be the ambient noise level. Section 28.1-30 of the noise ordinance provides an interior noise level standard of 55 dBA Leq between 7:00 a.m. and 7:00 p.m. and an interior noise level standard of 45 dBA between 7:00 p.m. and 7:00 a.m. for residential land use. According to Section 28.1-50(a) of the noise ordinance, construction and demolition activities within a residential district or within a radius of 500 feet are allowed only between the hours of 7:00 a.m. and 6:00 p.m. on weekdays and Saturday between 8:00 a.m. and 5:00 p.m.; construction and demolition activities are not allowed on Sundays and Federal holidays.

3.3.3 Sacramento County General Plan Noise Element

The County of Sacramento General Plan Noise Element Table 2 (listed in **Table 3-4** below) establishes an acceptable outdoor area noise level of 55 dBA L_{50} for daytime (7:00 a.m. to 10:00 p.m.) and 50 dBA L_{50} for nighttime (10:00 p.m. to 7:00 a.m.) for non-transportation noise sources. The standards are reduced by 5 dB for sounds consisting primarily of speech or music, such as a speaker in a drive-through. Where median (L_{50}) noise level data is not available for a particular noise source, average (L_{eq}) values may be substituted for the standards shown in **Table 3-4** provided the noise source in question operates for at least 30 minutes of an hour. If the source in question operates less than 30 minutes per hour, then the maximum noise level standards shown in the table would apply.

Table 3-4. Sacramento County Noise Element - Non-Transportation Noise Standards (Median [L_{50} , dBA] / Maximum [L_{max} , dBA])

	Outdo	or Area ¹	Interior ^{1,2}	
Receiving Land Use	Daytime	Nighttime	Interior Day & Night	Notes
All Residential	55 / 75	50 / 70	35 / 55	
Transient Lodging	55 / 75		35 / 55	3
Hospitals & Nursing Home	55 / 75		35 / 55	4,5
Theaters & Auditoriums			30 / 50	5
Churches, Meeting Halls, Schools, Libraries, etc.	55 / 75		35 / 60	5
Office Buildings	60 / 75		45 / 65	5
Commercial Buildings			45 / 65	5
Playgrounds, Parks, etc.	60 / 75			5
Industry	60 / 80		50 / 70	5

Notes:

Source: Sacramento County, 2017.

 L_{50} = median noise level or level exceeded 50 percent of time; L_{max} = Highest root-mean-square sound level measured over a given period of time.

- The noise standards shall be reduced by 5 dB for sounds consisting primarily of speech or music, and for recurring impulsive sounds. If the existing ambient noise level exceeds the noise standards, then the noise level standards shall be increased at 5 dB increments to encompass the ambient.
- 2. Interior noise level standards are applied within noise-sensitive areas of the various land uses, with windows and doors in the closed positions.
- 3. Outdoor activity areas of transient lodging facilities are not commonly used during nighttime hours.
- 4. Hospitals are often noise-generating uses. The exterior noise level standards for hospitals are applicable only at clearly identified areas designated for outdoor relaxation by either hospital staff or patients.
- 5. The outdoor activity areas of these uses (if any) are not typically utilized during nighttime hours.

3.3.4 Sacramento County Noise Ordinance

The Sacramento County Municipal Code, Section 6.68.070, provides an exterior noise level standard of 55 dBA Leq for daytime (7:00 a.m. to 10:00 p.m.) and an exterior noise level standard of 50 dBA Leq for nighttime (10:00 p.m. to 7:00 a.m.) for residential zoning districts (Sacramento County, 2023). According to Section 6.68.090 of the Code, noise sources associated with construction, repair, remodeling, demotion, paving or grading of any real

property are exempt provided said activities do not take place between the hours of 8:00 p.m. and 6:00 a.m. on weekdays and Friday commencing at 8:00 p.m. through and including 7:00 a.m. on Saturday; Saturdays commencing at 8:00 p.m. through and including 7:00 a.m. on the next following Sunday and on each Sunday after the hour of 8:00 p.m.

3.3.5 Contra Costa County General Plan Noise Element

The objectives and policies of the Contra costa County noise element are aimed at protecting the citizens of Contra Costa County from excessive noise levels that interfere with daily routine and comfort. Noise from construction activities in Contra Costa County is exempt from applicable standards during daytime hours. Applicable policies are summarized below (Contra Costa County 2010):

- Policy 11-1: New projects shall be required to meet acceptable exterior noise level standards as established in the Noise and Land Use Compatibility Guidelines contained in Figure 11-6 (shown in this NVIA report as Figure 4). These guidelines, along with future noise levels should be used by the county as a guide for evaluating the compatibility of "noise sensitive" projects in potentially noisy areas.
- Policy 11-2: The standard for outdoor noise levels in residential areas is a DNL of 60 dB. However, a DNL of 60 dB or less may not be achievable in all residential areas due to economic or aesthetic constraints. One example is small balconies associated with multi-family housing. In this case, second and third story balconies may be difficult to control to the goal. A common outdoor use area that meets the goal can be provided as an alternative.

3.3.6 Contra Costa County Ordinance Code

Contra Costa County does not have a noise ordinance code.

3.3.7 City of Pittsburg General Plan Noise Element

The following Policy of the city of Pittsburg (City) General Plan (City of Pittsburg, 2001) is relevant to the Proposed Project:

- Policy 12-P-9 establishes that generation of loud noises on construction sites adjacent to existing development should be limited to normal business hours between 8 a.m. and 5 p.m.
- Policy 12-P-10 establishes that the impact of truck traffic noise on residential areas should be reduced by limiting such traffic to appropriate truck routes, and that consideration is given to restrict truck travel times in sensitive areas.

The City's General Plan Noise Element also generally describes a range of changes in ambient (existing) noise levels and how these changes would be perceived by the community, such as a residential receptor, in terms of significance of impact:

- Except under special conditions, a change in sound level of 1 dB cannot be perceived.
- A 3 dB change is considered a "just noticeable" difference.
- A 5 dB change is required before any noticeable change in community response would be expected. A 5 dB change is often considered a "significant impact".
- A 10 dB change is subjectively heard as an approximate doubling in loudness and almost always causes an adverse community response.

3.3.8 City of Pittsburg Ordinance Code

The City's Municipal Code (City of Pittsburg, 2007) Noise Ordinance (Section 9.44.010) does not establish numerical noise-level limits related to construction noise but makes it unlawful for any person to make, continue or cause to be made, or continue any noise which either unreasonably annoys, disturbs, injures, or endangers the comfort, repose, health, peace, or safety of others, within the limits of the City. Unreasonable noise sources listed in the ordinance, and potentially relevant to the Proposed Project, include unmuffled vehicle exhaust (9.44.010.H) and pile drivers, hammers, and similar equipment (9.44.010.J). The City's Municipal Code (City of Pittsburg, 2007) Building and Construction Ordinance (Section 15.88.060.A.5) prohibits grading noise, including warming up equipment motors, within 1,000 feet of a residence between the hours of 5:30 p.m. and 7 a.m. weekdays, unless otherwise approved by the City Engineer.

3.3.9 Summary of Relevant Noise Level Criteria

The Proposed Project is in portions of Solano, Sacramento, and Contra Costa, counties. All three counties have similar noise standards for non-transportation (stationary) noise sources. The Proposed Project, which shall be considered a non-transportation noise source, shall not be permitted to generate noise levels exceeding:

- 55 dBA L₅₀ or L_{eq} during daytime (7:00 a.m. to 10:00 p.m.) hours,
- 50 dBA L₅₀ or L_{eq} during nighttime (10:00 p.m. to 7:00 a.m.) hours, and
- 60 dBA L_{dn} or CNEL (day-night) hours at the adjacent residential uses.

4 Existing Noise and Vibration Conditions

4.1 Existing Noise Conditions

Arcadis personnel conducted sound level measurements on September 25 and 26, 2023, to establish existing ambient environment at key locations of the Proposed Project area, including the Collinsville Substation site and the proposed LSPGC 230 kV Overhead Segment. Unattended long-term noise measurements (NM2) were conducted for 24 hours (started at 8:00 a.m. on Monday September 25 and ended 8:00 a.m. on Tuesday September 26) along Collinsville Road near residential receptor, R3, and approximately 4,300 feet west-southwest of the Collinsville Substation site (see **Figure 3**). Attended short-term measurements (NM1) were conducted for one hour during the day (10:57 a.m. to 11:57 a.m. on Monday, September 25) and one hour at night (11:04 p.m. to 12:04 a.m. on Monday, September 25 and Tuesday, September 26) near residential receptor, R5 on Halsey Court (near Pittsburg Substation) and approximately 2,200 feet southeast of the proposed LSPGC 230 kV Underground Segment (**Figure 3**). The attended short-term measurements were conducted near the Pittsburg Substation instead of unattended long-term measurement due to the risk of theft. The ambient noise recorded at both measurement locations are expected to be representative of the existing ambient noise levels at the nearest sensitive receptors to the Collinsville Substation site, along the new transmission line corridor, and near the proposed LSPGC telecommunications extension.

Measurements were taken with a fully calibrated Casella CEL-633C Type 1 Sound Level Meter (SLM), equipped with a microphone/pre-amplifier and a windscreen to reduce wind induced sound. The SLM and the microphone was setup at a height of approximately 5 feet above ground level. The SLM was setup to measure average A-weighted equivalent sound levels (Leq) and was field calibrated prior to and following the noise measurement to ensure accuracy. All sound level measurements conducted and presented in this NVIA report were made with a SLM that conforms to the American National Standards Institute (ANSI) specifications for sound level meters (ANSI S1.4 1983 (R2006)). All instruments are maintained with National Bureau of Standards traceable calibrations, per the manufacturers' standards. A copy of the calibration certificate for the SLM is provided in **Appendix A**. A photograph log of the SLM set-up is provided in **Appendix B**.

The primary audible noise sources contributing to the short-term ambient sound levels at NM1 were infrequent vehicle traffic from nearby roads, construction noises in the neighborhood, dogs barking, leaves rustling, and noise from a nearby power generating plant. The primary audible noise sources contributing to the long-term ambient sound levels at NM2 were infrequent vehicle traffic from nearby roads and birds chirping.

Weather conditions were calm and conducive for noise measurements with sunny conditions during the day and partly cloudy skies at night. Ambient temperatures ranged from 59 to 78 degrees Fahrenheit during the day and 63 to 64 degrees Fahrenheit at night. Relative humidity ranged from 43 to 83 percent during the day and 75 to 84 percent at night. Average wind speed during the day ranged from 4 to 9 miles per hour, primarily in a northeast direction. At night, average wind speed was 5 miles per hour, primarily in a northeast direction. No precipitation occurred during the survey.

A summary of the 24-hour L_{eq} noise levels measured near the new substation site and the one-hour L_{eq} noise levels measured near the new transmission line corridor are presented in **Table 4-1** and **Table 4-2**, respectively. **Table 4-3** summarizes the measured daytime ambient sound levels ($L_{eq(night)}$) and nighttime ambient sound levels ($L_{eq(night)}$) for the two measurement locations, along with the calculated day-night sound levels (L_{dn}). As defined in Section 3, the L_{dn} is the A-weighted equivalent noise level for a 24-hour period with a 10-dB adjustment added to sound levels occurring during nighttime hours (10:00 p.m. to 07:00 a.m.).

The L_{dn} is calculated using the following formula:

$$L_{dn} = 10 \log_{10} \left(\frac{15}{24} 10^{\frac{L_{eq(day)}}{10}} + \frac{9}{24} 10^{\frac{\left(L_{eq(night)} + 10\right)}{10}} \right)$$

Where $L_{eq(day)}$ is the continuous equivalent A-weighted daytime level between 07:00 a.m. and 10:00 p.m., and $L_{eq(night)}$ is the continuous equivalent A-weighted nighttime level between 10:00 p.m. and 07:00 a.m. the following day. Based on the above summaries, the calculated L_{dn} (or CNEL) noise level at sensitive receptors near the new substation and near the new transmission line corridor are 46 and 50 dBA, respectively (**Table 4-3**).

Table 4-1. Long-term Noise Measurement Results Near Collinsville Substation Site and New Transmission Line Corridor

Measurement Date	Measurement Time	Measured Noise Levels, One- Hour L _{eq} (dBA)
	08:00 a.m 09:00 a.m.	41
	09:00 a.m 10:00 a.m.	47
	10:00 a.m 11:00 a.m.	43
	11:00 a.m 12:00 p.m.	47
	12:00 p.m 01:00 p.m.	40
	01:00 p.m 02:00 p.m.	51
	02:00 p.m 03:00 p.m.	54
Monday Contombor 25, 2022	03:00 p.m 04:00 p.m.	44
Monday, September 25, 2023	04:00 p.m 05:00 p.m.	47
	05:00 p.m 06:00 p.m.	49
	06:00 p.m 07:00 p.m.	42
	07:00 p.m 08:00 p.m.	49
	08:00 p.m 09:00 p.m.	51
	09:00 p.m 10:00 p.m.	49
	10:00 p.m 11:00 p.m.	37
	11:00 p.m 12:00 a.m.	41
	12:00 a.m 01:00 a.m.	41
	01:00 a.m 02:00 a.m.	40
	02:00 a.m 03:00 a.m.	44
Tuesday Sentember 26, 2022	03:00 a.m 04:00 a.m.	45
Tuesday, September 26, 2023	04:00 a.m 05:00 a.m.	44
	05:00 a.m 06:00 a.m.	40
	06:00 a.m 07:00 a.m.	38
	07:00 a.m 08:00 a.m.	45

Notes:

L_{eq} = average equivalent sound level; dBA = A-weighted sound level

Table 4-2. Short-term Noise Measurement Results Near Existing PG&E Pittsburg Substation

Measurement Date	Measurement Time	Measured Noise Levels, One- Hour L _{eq} (dBA)	
Monday, September 25, 2023, to	10:57 a.m 11:57 a.m.	46	
Tuesday, September 26, 2023	11:04 p.m 12:04 a.m.	40	

Notes:

L_{eq} = average equivalent sound level; dBA = A-weighted sound level

Table 4-3. Summary of Measured Ambient Daytime and Nighttime Noise Levels and Calculated Day-Night Ambient Noise Levels

Noise Measurement Location ID	Measurement Location Description	Measured Ambient L _{eq(day)} , dBA	Measured Ambient L _{eq(night)} , dBA	Calculated Ambient L _{dn} , dBA
NM2	Long-term measurement location near residential receptor, R3, and approximately 4,300 feet west-southwest of the Collinsville Substation site (Figure 3).	48	42	50
NM1	Short-term noise measurement location near residential receptor, R5 on Halsey Court and approximately 2,200 feet southeast of the southern edge of the Sacramento River and San Joaquin River confluence (Figure 3).	46	40	48

Notes:

L_{eq(day)} = average equivalent sound level during daytime (7:00 a.m. to 10:00 p.m.)

L_{eq(night)} = average equivalent sound level during nighttime (7:00 a.m. to 10:00 p.m.)

 L_{dn} = A-weighted equivalent sound level for a 24-hour period with a 10-dB adjustment added to sound levels occurring during nighttime hours (10:00 p.m. to 07:00 a.m.)

dBA = A-weighted sound level

ID = identification

4.2 Existing Vibration Conditions

Currently, no ground or air-vibrating sources or activities (i.e., mine blasting, pile driving, locomotives, etc.) are present at or near the Collinsville Substation site or along the new transmission/interconnection line corridor. In addition, rubber-tired vehicles such as those on nearby public roads and highways, do not generate any significant amount of groundborne vibration (FTA 2018). Like noise emissions, ground and air vibration effects diminish with distance from the source, so baseline levels of vibration at the Proposed Project site and surrounding areas are expected to be negligible.

5 Modeling

5.1 Construction Noise

5.1.1 Substation Construction Noise

The Collinsville Substation construction noise levels were estimated using the Federal Highway Administration (FHWA) Roadway Construction Noise Model (RCNM) User's Guide (FHWA 2006). Although the model was developed by the FHWA, RCNM is often used for non-roadway projects, because the same types of construction equipment used for roadway projects are also used to construct other project types. Input variables for the RCNM consist of the receptor/land use types, the equipment type, the acoustical usage factor for each piece of equipment (e.g., percentage of time during a construction noise operation that a piece of construction equipment is operating at full power), and the distance between the construction activity and sensitive receptor. No topographical or structural shielding was assumed in the modeling of construction noise (i.e., the receptors are modeled with no obstacles to the propagation of sound between the construction activity and receptor location, a worst-case assumption). For construction equipment where measured noise levels were unavailable, noise level information for similar equipment types was assumed. Specifically, construction noise levels were calculated using the equation below:

 $L_{eq(h)} = L_{max} - 20 \log (D/D_0) + 10 \log (U.F.) + 10 \log (number of units operating concurrently)$

Where:

 $L_{eq(h)}$ = A-weighted, equivalent sound level at a receptor resulting from operation of a piece of equipment over a 1-hour time period;

L_{max} = Maximum noise emission level of equipment based on its work cycle at distance D₀;

U.F. = Usage Factor, which accounts for the percent time that equipment is in use over the time period of interest (1 hour). For example, a U.F. of 1.0 applies for equipment in use over 1 entire hour, while a U.F. of 0.40 applies for equipment in use for 24 minutes per hour;

D = Distance from the equipment to the receptor of interest; and

D_o = Reference distance at which the L_{max} was measured for the piece of equipment of interest.

The four noise sensitive receptors within one mile (5,280 feet) radius of the Collinsville Substation site comprise of one cultural resource site, two residential areas, and one cemetery (**Figure 3**).

The result of the Collinsville Substation construction noise analysis is summarized in **Table 5-1**. The table includes a list of equipment typically used for construction of substation facilities by phase and the calculated A-weighted L_{eq} noise levels for each phase of construction based on the individual equipment's maximum noise levels (L_{max}), the equipment usage factor, number of units operating concurrently, and the distances between the work sites and the nearest receptor location. The new substation construction noise levels at nearest receptor, R1 (1,790 feet away) range from 43 dBA during survey to 62 dBA during below grade construction and commissioning and testing. Construction noise levels at the other sensitive receptors (R2, R3, and R4) located further away would be lower.

Table 5-1. New Substation Construction Noise Levels by Phase

Construction Equipment Type	FHWA RCNM Construction Equipment L _{max} at 50 Feet (dBA)	Usage Factor	Estimated Number of Units	Calculated Noise Levels at Nearest Receptor (Residence), 1,790 feet from Center of New Substation Site, Leq (dBA)
Survey (26 Days)				
Pickup Truck (1/2-Ton, 395 HP)	75	40%	2	43
Site Development (102 Days)				
Water Truck (4,000 Gal, 300 HP)	72	40%	4	43
Loader (4-5 Yd, 230 HP)	79	40%	2	47
Dump Truck (10-12 Yd, 415 HP)	76	40%	3	46
Motor Grader (250 HP)	85	40%	2	53
Scrapper (410 HP)	84	40%	4	55
Vibratory Roller (157 HP)	80	20%	2	45
Pickup Truck (1/2-Ton, 395 HP)	75	40%	4	46
Generator (36 HP)	81	50%	2	50
Forklift (15,000 Lb Reach, 130 HP)	88	20%	4	56
Pickup Truck (1-Ton, 410 HP)	75	40%	4	46
844 Loader (417 HP)	79	40%	1	44
Semi-Truck (500 HP) ¹	74	40%	2	42
Subtotal (Logarithmic Sum)				61
Below Grade Construction (123 Da	ıys)	'		
Water Truck (4,000 Gal, 300 HP)	72	40%	4	43
Excavator (108 HP)	81	40%	2	49
Forklift (15,000 Lb Reach, 130 HP)	88	20%	3	55
Backhoe (2x4, 68 HP)	78	40%	2	46
Pickup Truck (1/2-Ton, 395 HP)	75	40%	4	46
Pickup Truck (1-Ton, 410 HP)	75	40%	4	46
Excavator - Mini (170 HP)	81	40%	1	46
Generator (36 HP)	81	50%	1	47
Concrete Mixer Truck (425 HP)	79	40%	4	50
Loader (4-5 Yd, 230 HP)	79	40%	2	47
Pressure Digger - Lo-Drill (Tracked, 275 HP)²	84	20%	1	46
Excavator (275 HP)	81	40%	1	46
Dump Truck (10-12 Yd, 415 HP)	76	40%	3	46
Tool - Van/Conex 20-foot ³	85	50%	6	59
Trencher (75 HP) ⁴	80	50%	2	49
Skid Steer Loader (74 HP)	79	40%	2	47
Subtotal (Logarithmic Sum)				62

Construction Equipment Type	FHWA RCNM Construction Equipment L _{max} at 50 Feet (dBA)	Usage Factor	Estimated Number of Units	Calculated Noise Levels at Nearest Receptor (Residence), 1,790 feet from Center of New Substation Site, L _{eq} (dBA)
Wire Trailer/ Tensioner (175 HP) ⁵	85	50%	1	51
Wire Puller (175 HP) ⁵	85	50%	1	51
Crane (200 Ton, 275 HP)	81	16%	1	42
Pickup Truck (1/2-Ton, 395 HP)	75	40%	4	46
Pickup Truck (1-Ton, 410 HP)	75	40%	4	46
Welding Truck (395 HP)	74	40%	2	42
Generator (36 HP)	81	50%	2	50
Crane (35 Ton, 250 HP)	81	16%	1	42
Forklift (10,000 Lb Reach, 130 HP)	88	20%	2	53
Forklift (15,000 Lb Reach, 130 HP)	88	20%	1	50
Loader (4-5 Yd, 74 HP)	79	40%	2	47
Man Lift (120-foot, 74 HP)	75	20%	2	40
Subtotal (Logarithmic Sum)				59
Commissioning and Testing (174	Days)			
Pickup Truck (1/2-Ton, 395 HP)	75	40%	4	46
Pickup Truck (1-Ton, 410 HP)	75	40%	4	46
Man Lift (40-foot, 49 HP)	75	20%	3	42
Water Truck (4,000 Gal, 300 HP)	72	40%	6	45
Tool - Van/Conex 20-foot ³	85	50%	6	59
Deck Barge (not a noise source)	N/A	N/A	1	N/A
Tugboat (3,300 HP) ⁶	87	50%	2	56
Support Vessel (200 HP) ⁶	81	50%	2	50
Deck Generator (170 HP)	81	50%	1	47
Crane (35 Ton, 250 HP)	81	16%	2	45
Subtotal (Logarithmic Sum)				62
Cleanup and Restoration (140 Day	s)			
Pickup Truck (1-Ton, 410 HP)	75	40%	4	46
Motor Grader (250 HP)	85	40%	2	53
Backhoe (2x4, 68 HP)	78	40%	2	46
Water Truck (4,000 Gal, 300 HP)	72	40%	2	40
Skid Steer Loader (74 HP)	79	40%	1	44
Excavator (250 HP)	81	40%	1	46
Dozer (D6 Type, 250 HP)	82	40%	1	47
Pickup Truck (1/2-Ton, 395 HP)	75	40%	4	46
Dump Truck (10-12 Yd, 415 HP)	76	40%	2	44
Subtotal (Logarithmic Sum)				57

Notes:

- Assumed noise level for a flatbed truck.
- ² Assumed noise level for an auger drill rig.
- ³ Assumed noise level for a pneumatic tool.
- ⁴ Assumed noise level for a slurry trenching machine.
- ⁵ Assumed noise level for all other equipment greater than 5 HP per FHWA 2006.

⁶ Noise level for tugboat and support vessel (crew boat) obtained from Epsilon Associates, Inc. 2006.

FHWA RCNM = Federal Highway Administration Roadway Construction Noise Model L_{eq} = average equivalent sound level

HP = horsepower Lb = pound

Source: FHWA 2006, WSDOT 2020, and Epsilon Associates, Inc. 2006

 L_{max} = maximum sound level dBA = A-weighted decibel Yd = yard

Gal = gallon N/A = not applicable

5.1.2 **Transmission Line Construction Noise**

Similar to the new substation construction noise, the proposed 500 kV Interconnection and the proposed LSPGC 230 kV Overhead Segment construction noise levels were estimated based on the FHWA RCNM User's Guide (FHWA 2006). Input variables for the RCNM consist of the receptor/land use types, the equipment type, number of units operating concurrently, the acoustical usage factor for each piece of equipment, and the distance between the construction activity and sensitive receptor. No topographical or structural shielding was assumed in the construction noise analysis. For construction equipment where measured noise levels were unavailable, noise level information for similar equipment types was assumed. One cultural resource site (Hastings Adobe, depicted as R1 in Figure 3) is within one-quarter mile (1,320 feet) of the proposed LSPGC 230 kV Overhead Segment. R1 is approximately 555 feet south of the proposed LSPGC 230 kV Overhead Segment (Figure 3). There are no sensitive noise receptors within one-quarter mile (1,320 feet) of the proposed PG&E 500 kV Interconnection. The closest receptor, R1, to the interconnection line is approximately 1,950 feet south. For purposes of this analysis, the interconnection line construction impacts at 1,950 feet away was also evaluated.

The result of the construction noise analysis for the proposed PG&E 500 kV Interconnection and the proposed LSPGC 230 kV Overhead Segment are summarized in Table 5-2 and Table 5-3, respectively. The table includes a list of equipment typically used for construction of interconnection/transmission lines by phase and the calculated A-weighted Leg noise levels for each phase of construction based on the individual equipment's maximum noise levels, the equipment usage factor, and the distances between the work sites and the nearest receptor locations. LSPGC plan to use a Kaman K-Max (or similar model) for PG&E 500 kV Structure Installation and a Hughes 500 (or similar model) for PG&E 500 kV Conductor Installation and the LSPGC 230 kV Conductor Installation. The proposed PG&E 500 kV Interconnection construction noise levels at nearest receptor (1,950 feet away) range from 58 dBA during foundation installation to 72 dBA during structure installation. The proposed LSPGC 230 kV Overhead Segment construction noise levels at nearest receptor, R1 (555 feet away) range from 64 dBA during structure installation to 78 dBA during conductor installation. The primary source of noise during construction of the interconnection/transmission lines are helicopters used for structure installation and conductor installation.

Table 5-2. Proposed PG&E 500 kV Interconnection Construction Noise Levels by Phase

Construction Equipment Type	FHWA RCNM Construction Equipment L _{max} at 50 Feet (dBA)	Usage Factor	Estimated Number of Units	Calculated Noise Levels at Nearest Receptor (Residence), 1,950 feet from Construction Site, Leq (dBA)	
Foundation Installation (48 Days)					
Pressure Digger - Lo-Drill (Tracked, 275 HP) ¹	84	20%	1	45	
Concrete Mixer Truck (425 HP)	79	40%	4	49	
Pickup Truck (1-Ton, 410 HP)	75	40%	4	45	
Water Truck (4,000 Gal, 300 HP)	72	40%	2	39	
Dump Truck (10-12 Yd, 415 HP)	76	40%	2	43	
Skid Steer Loader (74 HP)	79	40%	1	43	
Forklift (10,000 Lb Reach, 130 HP)	88	20%	2	52	
Crane (35 Ton, 250 HP)	81	16%	1	41	
Loader (4-5 Yd, 230 HP)	79	40%	1	43	
Rough Terrain Crane (185 HP)	81	16%	1	41	
Motor Grader (250 HP)	85	40%	1	49	
Dozer (D6 Type, 250 HP)	82	40%	1	46	
Excavator (250 HP)	81	40%	1	45	
Vibratory Roller (125 HP)	80	20%	1	41	
Subtotal (Logarithmic Sum)				58	
Structure Installation (21 Days)					
Crane (35 Ton, 250 HP)	81	16%	2	44	
Helicopter – Heavy Duty (3,200 HP) ²	106	50%	1	72	
Jet Fuel Truck (300 HP) ³	72	40%	1	36	
Pickup Truck (1/2-Ton, 395 HP)	75	40%	2	42	
Forklift (15,000 Lb Reach, 130 HP)	88	20%	1	49	
Pickup Truck (1-Ton, 410 HP)	75	40%	2	42	
Crane (200 Ton, 275 HP)	81	16%	1	41	
844 Loader (417 HP)	79	40%	1	43	
Water Truck (4,000 Gal, 300 HP)	72	40%	2	39	
Subtotal (Logarithmic Sum)				72	
Conductor Installation (20 Days)					
Helicopter – Light Duty (700 HP) ⁴	101	50%	1	66	
Jet Fuel Truck (300 HP) ³	72	40%	1	36	
Crane (35 Ton, 250 HP)	81	16%	6	49	
Pickup Truck (1/2-Ton, 395 HP)	75	40%	4	45	
Pickup Truck (1-Ton, 410 HP)	75	40%	4	45	
Dozer (D8 Type, 200 HP)	82	40%	3	51	

Construction Equipment Type	FHWA RCNM Construction Equipment L _{max} at 50 Feet (dBA)	Usage Factor	Estimated Number of Units	Calculated Noise Levels at Nearest Receptor (Residence), 1,950 feet from Construction Site, L _{eq} (dBA)
Wire Puller (175 HP) ⁵	85	50%	1	50
Water Truck (4,000 Gal, 300 HP)	72	40%	2	39
Wire Trailer/ Tensioner (175 HP) ⁵	85	50%	1	50
Subtotal (Logarithmic Sum)				66

Notes:

¹ Assumed noise level for an auger drill.

³ Assumed noise level for a water truck.

L_{max} = maximum sound level

L_{eq} = average equivalent sound level

dBA = A-weighted decibel

HP = horsepower

Yd = yard Lb = pound

Gal = Gallon

Source: FHWA 2006, WSDOT 2020, USDA 2024, Falzarano S., and Levy L., 2007.

² Based on noise level (90 dBA) of a CH-47D helicopter flying at 100 feet aboveground level (Schomer et al 1988); adjusted to noise levels at 50 feet and assumed a 50 percent usage factor.

³ Based on noise level (94.5 dBA) of a MD900 helicopter flying at 100 feet aboveground level during landing (Falzarano S., and Levy L., 2007); adjusted to noise levels at 50 feet and assumed a 50 percent usage factor. Noise levels for MD500 model Assumed noise level for a water truck.

⁵ Assumed noise level for all other equipment greater than 5 horsepower per FHWA 2006 FHWA RCNM = Federal Highway Administration Roadway Construction Noise Model

Table 5-3. Proposed LSPGC 230 kV Overhead Segment Construction Noise Levels by Phase

				-		
Construction Equipment Type	FHWA RCNM Construction Equipment L _{max} at 50 Feet (dBA)	Usage Factor	Estimated Number of Units	Calculated Noise Levels at Nearest Receptor (Residence), 555 feet from Construction Site, Leq (dBA)		
Access Road Construction (16 Day	ys)					
Pickup Truck (1/2-Ton, 395 HP)	75	40%	2	53		
Pickup Truck (1-Ton, 410 HP)	75	40%	2	53		
Motor Grader (250 HP)	85	40%	1	60		
Dump Truck (10-12 Yd, 415 HP)	76	40%	2	54		
Skid Steer Loader (74 HP)	79	40%	1	54		
Water Truck (4,000 Gal, 300 HP)	72	40%	2	50		
Dozer (D6 Type, 250 HP)	82	40%	1	57		
Excavator (250 HP)	81	40%	1	56		
Vibratory Roller (125 HP)	80	20%	1	52		
Subtotal (Logarithmic Sum)				65		
Foundation Installation (22 Days)						
Pressure Digger - Lo-Drill (Tracked, 275 HP) ¹	84	20%	1	56		
Concrete Mixer Truck (425 HP)	79	40%	4	60		
Pickup Truck (1-Ton, 410 HP)	75	40%	4	56		
Water Truck (4,000 Gal, 300 HP)	72	40%	2	50		
Dump Truck (10-12 Yd, 415 HP)	76	40%	2	54		
Skid Steer Loader (74 HP)	79	40%	1	54		
Forklift (10,000 Lb Reach, 130 HP)	88	20%	2	63		
Crane (35 Ton, 250 HP)	81	16%	1	52		
844 Loader (417 HP)	79	40%	1	54		
Rough Terrain Crane (185 HP)	81	16%	1	52		
Subtotal (Logarithmic Sum)				67		
Structure Installation (24 Days)						
Crane (35 Ton, 250 HP)	81	16%	2	55		
Pickup Truck (1/2-Ton, 395 HP)	75	40%	2	53		
Forklift (15,000 Lb Reach, 130 HP)	88	20%	1	60		
Pickup Truck (1-Ton, 410 HP)	75	40%	2	53		
Crane (200 Ton, 275 HP)	81	16%	1	52		
844 Loader (417 HP)	79	40%	1	54		
Water Truck (4,000 Gal, 300 HP)	72	40%	2	50		
Subtotal (Logarithmic Sum)				64		
Conductor Installation (26 Days)						
Helicopter – Light Duty (700 HP) ²	101	50%	1	77		

Construction Equipment Type	FHWA RCNM Construction Equipment L _{max} at 50 Feet (dBA)	Usage Factor	Estimated Number of Units	Calculated Noise Levels at Nearest Receptor (Residence), 555 feet from Construction Site, Leq (dBA)
Jet Fuel Truck (300 HP) ³	72	40%	1	47
Crane (35 Ton, 250 HP)	81	16%	6	60
Pickup Truck (1/2-Ton, 395 HP)	75	40%	4	56
Pickup Truck (1-Ton, 410 HP)	75	40%	4	56
Dozer (D8 Type, 200 HP)	82	40%	3	62
Wire Puller (175 HP) ⁴	85	50%	1	61
Water Truck (4,000 Gal, 300 HP)	72	40%	2	50
Wire Trailer/ Tensioner (175 HP) ⁴	85	50%	1	61
Deck Barge (not a noise source)	N/A	N/A	1	0
Tugboat (3,300 HP) ⁵	87	50%	2	66
Support Vessel (200 HP) ⁵	81	50%	2	60
Deck Generator (170 HP) ⁵	81	50%	1	57
Anchor Winches (100 HP) ⁴	85	50%	4	67
Subtotal (Logarithmic Sum)				78

Notes:

¹ Assumed noise level for an auger drill.

FHWA RCNM = Federal Highway Administration Roadway Construction Noise Model

L_{max} = maximum sound level

L_{eq} = average equivalent sound level

HP = horsepower

Yd = yard

Lb = pound

Gal = gallon

N/A = not applicable

dBA = A-weighted decibel

Source: FHWA 2006, WSDOT 2020, Falzarano S., and Levy L., 2007.

5.1.3 Construction Noise Levels from Other Land-based Components

The Proposed Project would generate construction noise levels from other land-based components such as:

- Proposed LSPGC 230 kV Underground Segment or 230 kV southern construction open trenching methods
 of construction would be used to connect the submarine cables to an onshore utility vault. The cables would
 then continue in an underground configuration to designated locations near the fence of PG&E's existing
 Pittsburg Substation.
- · Staging yard establishment and use.
- 12 kV distribution line extension to Collinsville Substation.
- Telecommunications line extension that goes through the underground utility vault and onto the LSPGC Collinsville Substation.

² Based on noise level (94.5 dBA) of a MD900 helicopter flying at 100 feet aboveground level during landing (Falzarano S., and Levy L., 2007); adjusted to noise levels at 50 feet and assumed a 50 percent usage factor. Noise levels for MD500 model³ Assumed noise level for a water truck.

³ Assumed noise level for a water truck.

⁴ Assumed noise level for all other equipment greater than 5 horsepower per FHWA 2006

⁶ Noise level for tugboat and support vessel (crew boat) obtained from Epsilon Associates, Inc. 2006.

Pittsburg Substation modifications – Vaca Dixon, Tesla, and Pittsburg Substation upgrades.

Construction noise levels for the components listed above were estimated based on the FHWA RCNM User's Guide (FHWA 2006). Input variables for the RCNM consist of the receptor/land use types, the equipment type, number of units operating concurrently, the acoustical usage factor for each piece of equipment, and the distance between the construction activity and sensitive receptor. No topographical or structural shielding was assumed in the construction noise analysis. For construction equipment where measured noise levels were unavailable, noise level information for similar equipment types was assumed. The proposed LSPGC 230 kV Underground Segment, telecommunications line extension, and Pittsburg Substation modifications are approximately 1,370 feet, 20 feet, and 2,000 feet, respectively from the nearest residential area on Halsey Court/Halsey Way (R5 in **Figure 3**). The 12 kV distribution line is approximately 590 feet from the nearest receptor, a cemetery along Abruzzini Hill Road, off Collinsville Road (R4 in **Figure 3**).

It is anticipated that approximately five staging areas would be used to support construction of the Collinsville Substation, new transmission lines, and interconnection lines. Three of the staging yards would be located north of Sacramento River in Solano County and would include use of helicopters; however, there are no human receptors within one-half mile of the staging areas. The other two staging yards are located south of the river, (adjacent to the Pittsburg Substation) in Contra Costa County and would not include use of helicopters. The staging yard directly west of the Pittsburg Substation is approximately 270 feet from the nearest residential area on Halsey Court.

The result of the construction noise analysis for the proposed LSPGC 230 kV Underground Segment, 12 kV distribution line, telecommunications line extension, Pittsburg Substation modifications, and staging yard establishment and use are summarized in **Tables 5-4** to **5-9**. The tables include a list of equipment typically used for each construction activity and the calculated A-weighted L_{eq} noise levels for the activity based on the individual equipment's maximum noise levels, the equipment usage factor, and the distances between the work site and the nearest receptor location. The predicted noise levels from the proposed LSPGC 230 kV Underground Segment, 12 kV distribution line extension construction, and the Pittsburg Substation modifications were all below 70 dBA at the nearest receptors (1,370 feet to 2,000 feet away). The noise level from construction of the telecommunications line extension was predicted to be 98 dBA at the nearest residential area located 20 feet away (single-family residences along Halsey Way and Marina Boulevard). The noise level from establishment and use of staging yards south of the river near the Pittsburg Station (without helicopters) is estimated to range from 61 dBA at residences 1,200 feet away to 74 dBA at residences 270 feet away. The noise level from establishment and use of staging yard north of the river (with helicopters) is estimated to be approximately 69 dBA at the nearest residential area located over one-half mile away.

In-water construction activities associated the LSPGC Submarine Segment would generate some noise in the immediate vicinity; however, there are no onshore human receptors within one-half mile of the LSPGC 230 kV Submarine Segment in the Sacramento River. Therefore, noise from in-water construction activities would result in no impact on onshore human receptors.

Table 5-4. Proposed LSPGC 230 kV Underground Segment Noise Levels by Phase

Construction Equipment Type	FHWA RCNM Construction Equipment L _{max} at 50 Feet (dBA)	Usage Factor	Estimated Number of Units	Calculated Noise Levels at Nearest Receptor (Residential Area), 1,370 feet from Construction Site, L _{eq} (dBA)
Southern Transition Approach (138 Days	5)			
Onshore Excavator (600 HP)	81	40%	1	48
Onshore End Loader (250 HP)	79	40%	1	46
Onshore Crane (180 HP)	81	16%	1	44
Onshore Crane (200 Ton, 275 HP)	81	16%	1	44
Onshore Vibratory Hammer (300 HP)	101	20%	1	65
Air Compressor (50 HP)	78	40%	1	45
Dump Truck (10-12 Yd, 415 HP)	76	40%	2	46
Onshore Dewatering Equipment (50 HP) ¹	85	50%	2	56
Onshore Trucks (300 HP) ²	72	40%	2	42
Onshore Impact Pile Driver	101	20%	1	65
Subtotal (Logarithmic Sum)				69
Substation Getaways (70 Days)				
Pickup Truck (1/2-Ton, 395 HP)	75	40%	4	48
Pickup Truck (1-Ton, 410 HP)	75	40%	4	48
Welding Truck (395 HP)	74	40%	2	44
Generator (36 HP)	81	50%	2	52
Crane (35 Ton, 250 HP)	81	16%	2	47
Forklift (10,000 Lb Reach, 130 HP)	88	20%	2	55
Forklift (15,000 Lb Reach, 130 HP)	88	20%	1	52
Loader (4-5 Yd, 74 HP)	79	40%	2	49
Wire Trailer/ Tensioner (175 HP) ¹	85	50%	1	53
Wire Puller (175 HP) ¹	85	50%	1	53
Skid Steer Loader (74 HP)	79	40%	2	49
Backhoe (2x4, 68 HP)	78	40%	2	48
Subtotal (Logarithmic Sum)				62

FHWA RCNM = Federal Highway Administration Roadway Construction Noise Model

L_{max} = maximum sound level

L_{eq} = average equivalent sound level

dBA = A-weighted decibel

HP = horsepower

Yd = yard

Lb = pound

Source: FHWA 2006, WSDOT 2020.

¹ Assumed noise level for all other equipment greater than 5 horsepower per FHWA 2006. ² Assumed noise level for a water truck.

Table 5-5. 12 kV Distribution Line Extension Construction Noise Levels by Phase

Construction Equipment Type	FHWA RCNM Construction Equipment L _{max} at 50 Feet (dBA)	Usage Factor	Estimated Number of Units	Calculated Noise Levels at Nearest Receptor (Cemetery), 590 feet from Construction Site, Leq (dBA)			
12 kV Distribution Extension to Collinsville Substation (51 Days)							
Pickup Truck (1/2-Ton, 395 HP)	75	40%	2	53			
Wire Trailer/ Tensioner (175 HP) ¹	85	50%	1	61			
Wire Puller (175 HP) ¹	85	50%	1	61			
Crane (35 Ton, 250 HP)	81	16%	2	55			
Pickup Truck (1-Ton, 410 HP)	75	40%	2	53			
Forklift (15,000 Lb Reach, 130 HP)	88	20%	2	63			
Pressure Digger - Lo-Drill (Tracked, 275 HP) ²	84	20%	1	56			
Dump Truck (10-12 Yd, 415 HP)	76	40%	2	54			
Skid Steer Loader (74 HP)	79	40%	2	57			
Concrete Mixer Truck (425 HP)	79	40%	4	60			
Backhoe (2x4, 68 HP)	78	40%	1	53			
Subtotal (Logarithmic Sum)				68			

² Assumed noise level for an auger drill. FHWA RCNM = Federal Highway Administration Roadway Construction Noise Model

L_{max} = maximum sound level L_{eq} = average equivalent sound level

dBA = A-weighted decibel

HP = horsepower

Yd = yard Lb = pound

Source: FHWA 2006, WSDOT 2020.

¹ Assumed noise level for all other equipment greater than 5 horsepower per FHWA 2006.

Table 5-6. Telecommunications Line Extension Construction Noise Levels by Phase

Construction Equipment Type	FHWA RCNM Construction Equipment L _{max} at 50 Feet (dBA)	Usage Factor	Estimated Number of Units	Calculated Noise Levels at Nearest Receptor (Residential Area), 20 feet from Construction Site, L _{eq} (dBA)				
Fiber Extension to Pittsburg Substation (103 Days)								
Crane (35 Ton, 250 HP)	81	16%	2	84				
Forklift (10,000 Lb Reach, 130 HP)	88	20%	1	89				
Excavator - Mini (170 HP)	81	40%	2	88				
Dump Truck (10-12 Yd, 415 HP)	76	40%	3	85				
Skid Steer Loader (74 HP)	79	40%	2	86				
Trencher (75 HP) ¹	80	50%	2	88				
Pickup Truck (1-Ton, 410 HP)	75	40%	3	84				
Concrete Mixer Truck (425 HP)	79	40%	2	86				
Wire Trailer/ Tensioner (175 HP) ²	85	50%	1	90				
Wire Puller (175 HP) ²	85	50%	1	90				
Water Truck (4,000 Gal, 300 HP)	72	40%	2	79				
Subtotal (Logarithmic Sum)				98				

 L_{max} = maximum sound level L_{eq} = average equivalent sound level

dBA = A-weighted decibel

HP = horsepower

Yd = yard Lb = pound

Gal = gallon

Source: FHWA 2006, WSDOT 2020.

¹ Assumed noise level for a slurry trenching machine.

² Assumed noise level for all other equipment greater than 5 horsepower per FHWA 2006. FHWA RCNM = Federal Highway Administration Roadway Construction Noise Model

Table 5-7. Pittsburg Substation Modification Construction Noise Levels by Phase

Construction Equipment Type	FHWA RCNM Construction Equipment L _{max} at 50 Feet (dBA)	Usage Factor	Estimated Number of Units	Calculated Noise Levels at Nearest Receptor (Residential Area), 2,000 feet from Construction Site, L _{eq} (dBA)				
Vaca Dixon, Tesla, and Pittsburg Substation Upgrades (78 Days)								
Pickup Truck (1/2-Ton, 395 HP)	75	40%	4	45				
Pickup Truck (1-Ton, 410 HP)	75	40%	4	45				
Welding Truck (395 HP)	74	40%	2	41				
Crane (35 Ton, 250 HP)	81	16%	2	44				
Forklift (15,000 Lb Reach, 130 HP)	88	20%	1	49				
Man Lift (40-foot, 49 HP)	75	20%	3	41				
Man Lift (120-foot, 74 HP)	75	20%	2	39				
Subtotal (Logarithmic Sum)				53				

FHWA RCNM = Federal Highway Administration Roadway Construction Noise Model

L_{max} = maximum sound level L_{eq} = average equivalent sound level

dBA = A-weighted decibel

HP = horsepower

Lb = pound

Source: FHWA 2006, WSDOT 2020.

Table 5-8. Staging Yard Establishment and Use Noise Levels without Helicopters - South of the River

Construction Equipment Type	Construction Equipment L _{max} at 50 Feet (dBA)	Usage Factor	Estimated Number of Units	Calculated Noise Levels at Nearest Receptor (Residential Area), 270 Feet from Construction Site, L _{eq} (dBA)	Calculated Noise Levels at Nearest Receptor (Residential Area), 1200 Feet from Construction Site, Leq (dBA)
Staging Yard Establishment and	Use (Duration o	f Project)			
Water Truck (4,000 Gal, 300 HP)	72	40%	1	53	40
Loader (4-5 Yd, 74 HP)	79	40%	1	60	47
Dump Truck (10-12 Yd, 415 HP)	76	40%	1	57	44
Motor Grader (250 HP)	85	40%	1	66	53
Scrapper (410 HP)	84	40%	1	65	52
Vibratory Roller (157 HP)	80	20%	1	58	45
Pickup Truck (1/2-Ton, 395 HP)	75	40%	2	59	46
Generator (36 HP)	81	50%	2	66	53
Forklift (15,000 Lb Reach, 130 HP)	88	20%	2	69	56
Pickup Truck (1-Ton, 410 HP)	75	40%	2	59	46
844 Loader (417 HP)	79	40%	1	60	47
Semi-Truck (500 HP) ¹	74	40%	2	58	45
Subtotal (Logarithmic Sum)				74	61

¹ Assumed noise level for a flatbed truck.

FHWA RCNM = Federal Highway Administration Roadway Construction Noise Model

 L_{max} = maximum sound level

 L_{eq} = average equivalent sound level

dBA = A-weighted decibel

HP = horsepower

Lb = pound

Source: FHWA 2006, WSDOT 2020.

Table 5-9. Staging Yard Establishment and Use Noise Levels with Helicopters - North of the River

Construction Equipment Type	FHWA RCNM Construction Equipment L _{max} at 50 Feet (dBA)	Usage Factor	Estimated Number of Units	Calculated Noise Levels at Nearest Receptor (Residential Area), 0.5 Mile from Construction Site, L _{eq} (dBA)
Staging Yard Establishment and Use (Durati	on of Project)			
Water Truck (4,000 Gal, 300 HP)	72	40%	1	34
Loader (4-5 Yd, 74 HP)	79	40%	1	41
Dump Truck (10-12 Yd, 415 HP)	76	40%	1	38
Motor Grader (250 HP)	85	40%	1	47
Scrapper (410 HP)	84	40%	1	46
Vibratory Roller (157 HP)	80	20%	1	39
Pickup Truck (1/2-Ton, 395 HP)	75	40%	2	40
Generator (36 HP)	81	50%	2	47
Forklift (15,000 Lb Reach, 130 HP)	88	20%	2	50
Pickup Truck (1-Ton, 410 HP)	75	40%	2	40
844 Loader (417 HP)	79	40%	1	41
Semi-Truck (500 HP) ¹	74	40%	2	39
Helicopter – Heavy Duty (3,200 HP) ²	106	50%	1	69
Subtotal (Logarithmic Sum)				69

FHWA RCNM = Federal Highway Administration Roadway Construction Noise Model

L_{max} = maximum sound level

L_{eq} = average equivalent sound level

dBA = A-weighted decibel

HP = horsepower

Lb = pound

Source: FHWA 2006, WSDOT 2020.

5.2 Construction Vibration

Temporary sources of groundborne vibration during grading, trenching, and other activities associated with the construction of the Collinsville Substation, proposed LSPGC 230 kV Overhead Segment, proposed PG&E 500 kV Interconnection, and other land-based components would be produced by the operation of heavy construction equipment. The Proposed Project equipment types most likely to create vibration include a drill rig, large bulldozer, loaded truck, vibratory roller, vibratory hammer, and impact pile driver. Using reference vibration levels at 25 feet, vibration from each construction equipment, except impact pile driver, can be estimated using the following formula (Caltrans 2020):

PPV_{Equipment} = PPV_{Ref} (25/D)ⁿ (inches per second)

Where:

PPV_{Ref} = reference PPV at 25 feet

¹ Assumed noise level for a flatbed truck.

² Based on noise level (90 dBA) of a CH-47D helicopter flying at 100 feet aboveground level (Schomer et al 1988); adjusted to noise levels at 50 feet and assumed a 50 percent usage factor.

D = distance from equipment to the receiver in feet

n = is a scaling factor (unitless), which is related to the attenuation rate through ground and is based on the soil conditions at the site (soil class). The value generally ranges from 1 to 1.5; the suggested value for "n" is 1.5 for the Proposed Project, which corresponds to competent soils that can be dug with shovel (e.g., agricultural lands) (Caltrans 2020).

Using reference vibration levels at 25 feet, vibration from impact pile driver can be estimated using the following formula (Caltrans 2020):

 $PPV_{Impact\ Pile\ Driver} = PPV_{Ref} (25/D)^n x (E_{equip}/E_{Ref})^{0.5}$ (inches per second)

Where:

PPV_{Ref} = reference PPV of impact pile driver at 25 feet

D = distance from impact pile driver to the receiver in feet

n = is a scaling factor (unitless), which is related to the attenuation rate through ground and is based on the soil conditions at the site (soil class). The value generally ranges from 1 to 1.5; the suggested value for "n" is 1.5 for the Proposed Project, which corresponds to competent soils that can be dug with shovel (e.g., agricultural lands) (Caltrans 2020).

E_{Ref} = 36,000 foot-pound (rated energy of reference impact pile driver)

E_{equip} = rated energy of impact pile driver in foot-pound.

Groundborne vibration levels generated by these pieces of equipment at a reference distance of 25 feet are shown in **Table 5-10**. The table also shows the distance at which noise generated by these pieces of equipment attenuate to the Caltran's thresholds for building damage and human annoyance at residential uses. The construction equipment with the highest vibration source level (i.e., vibratory hammer) generates vibration levels of 0.65 PPV inch per second at a distance of 25 feet.

Table 5-10. Construction Equipment Vibration Noise Levels

Construction Equipment	Type of Vibration Source	Caltrans Reference Vibration Level at 25 feet, PPV (inches per second)	Distance to Attenuate to Caltrans' Threshold for Damage to Older Residential Structures ¹ (feet)	Distance to Attenuate to Caltrans' Threshold for a Barely Perceptible Human Response ² (feet)
Large Bulldozer	Continuous/ Frequent Intermittent	0.089	11	107
Drill Rig	Continuous/ Frequent Intermittent	0.089	11	107
Loaded Trucks	Continuous/ Frequent Intermittent	0.076	10	97
Vibratory Roller ³	Continuous/Frequent Intermittent	0.21	20	190
Vibratory Hammer ⁴	Continuous/Frequent Intermittent	0.65	42	405
Impact Pile Driver ⁵	Transient or Low-rate Repeated Impact	0.65	50	480

Caltrans = California Department of Transportation

Source: Caltrans 2020

5.3 Operation and Maintenance Noise

5.3.1 Substation Operation and Maintenance Noise

The primary sources of noise associated with operation of the Collinsville Substation would be from six (6) single phase step-down autotransformers and their associated cooling fans (seventh autotransformer is a spare); two (2) heating, ventilation, and air conditioning (HVAC) units mounted on the sides of a control enclosure); eight (8) HVAC units mounted on the sides of two GIS halls (four HVAC units per GIS hall); and two 10-ohm series reactors per 230 kV line (triangle arrangement). The autotransformers shall be of mineral oil immersed type for ONAN/ONAF/ONAF2 (300/375/500 mega volt ampere [MVA]) multistage cooling.³

Sound emissions from each substation autotransformer and each series reactor were modeled as point sources located at a source height of 36 and 22 feet, respectively. Sound emissions from the control house HVAC and each GIS hall HVAC were modeled as vertical area sources located on the building walls at heights of 12.7 and 29.5 feet, respectively. The overall A-weighted sound power level for each substation equipment type was

¹ Caltrans threshold for damage to older structures is 0.3 inch per second, as provided in **Table 3-1**.

² Caltrans threshold for a barely perceptible human response is 0.01 inch per second, as provided in **Table 3-2**.

³ Only used during site development phase of the new substation construction and access road phase of the 230 kV new transmission line construction.

⁴ Only used during the southern transition approach phase of the 230 kV underground segment construction.

⁵ Assumed a 60,000-foot-pound impact pile driver; only used during the southern transition approach phase of the 230 kV underground segment construction.

³ ONAN = Oil Natural Air Natural; ONAF = Oil Natural Air Forced (first stage cooling); ONAF2 = ONAF = Oil Natural Air Forced (second stage cooling)

provided by LSPGC based on vendor sound-specifications. The un-weighted octave band sound power levels of the autotransformers and HVACs were estimated using adjustment factors in Handbook of Noise and Vibration (Crocker M.J. 2007). The equipment sound power levels used for the acoustical modeling of the Collinsville Substation are summarized in **Table 5-11**.

Table 5-11. Equipment Sound Power Levels at Collinsville Substation (Per Unit)

Substation Height		Unwe	Unweighted Sound Power Level in dB per Octave Band Frequency (Hz)							Total Sound Power	
Description	(feet)	31.5	63	125	250	500	1000	2000	4000	8000	Level (dBA)
Step-down Autotransformer (6 units operating; one spare)	36.0	96.6	102.6	104.6	99.6	99.6	93.6	88.6	83.6	76.6	100
HVAC units for control house (2 units in total)	12.7	55.8	55.8	63.8	67.8	73.8	70.8	65.8	60.8	60.8	75.0
HVAC units for GIS hall (8 units in total; 4 units per GIS hall)	29.5	68.8	68.8	76.8	80.8	86.8	83.8	78.8	73.8	73.8	88.0
Series reactor (6 units in total)	22.0										86.0

Notes:

HVAC = heating, ventilation, and air conditioning

GIS = Gas Insulated Switchgear

dBA = A-weighted decibel

MVA - mega volt ampere

Hz = Hertz

Community noise levels associated with future operation of the Collinsville Substation were predicted using Cadna/A noise calculation software developed by DataKustik Gmbh. This software implements International Organization for Standardization (ISO) 9613-2 international standard for sound propagation (Acoustics – Attenuation of Sound during Propagation Outdoors – Part 2: General Method of Calculation) for environmental noise sources and outdoor sound propagation. It is a comprehensive three-dimensional, ray-tracing model in which noise sources are assembled from a point, line, area, and/or vertical area components each emitting LwA in octave bands or broadband A-weighted format. Distance losses, ground attenuation, terrain effects, wind effects, building shielding, attenuation through walls, and barrier/berm effects are computed in the Cadna/A model, and the resulting LPA are computed at any number of receptors of interest.

Cadna/A starts with a Google Earth® base map of the area extending out approximately a mile from the facility. The model is capable of importing topography data for consideration of terrain shielding where appropriate. Elevation contours for the modeling domain were directly imported into Cadna/A, which allowed for consideration of terrain shielding where appropriate. The terrain height contour elevations for the modeling domain were generated from elevation information derived from the National Elevation Dataset developed by the United States Geological Survey. The model also accounts for the 10-foot-high prefabricated interlocking security wall that would be constructed around the Collinsville Substation site.

All calculations assumed favorable conditions for sound propagation per ISO 9613-2, corresponding to a moderate, well-developed ground-based temperature inversion, as might occur on a calm, clear night, or equivalently downwind propagation. Furthermore, the ISO 9613-2 standard assumes all receptors are downwind of every sound source simultaneously. In other words, the model assumes that each source propagates its maximum sound level in all directions at all times. This would likely overpredict upwind sound levels. Each receptor was modeled as a receiver at a height of 5.0 feet above ground level.

A temperature of 10 degrees Celsius (50 degrees Fahrenheit) and 70 percent relative humidity was used to calculate atmospheric absorption for the ISO 9613-2 model. These parameters were selected to minimize atmospheric attenuation in the 500 and 1000 Hz octave bands where the human ear is most sensitive, and thus provide conservative results. No meteorological correction was added to the results.

The land is primarily used for agricultural purposes and vegetation is mostly low-lying (i.e., little-to-no trees or foliage). All vegetation was excluded from the analysis to maintain conservativeness in the model. Ground attenuation is expected to be fairly high, due to the "soft ground" of surrounding areas but was assumed to be semi-reflective in the model for conservativeness. Ground absorption was set to a value of 0.5, where only half the available ground absorption is considered. Lastly, the model was programmed to include the sound contribution of two acoustical reflections off the Collinsville Substation buildings.

The Collinsville Substation layout, supplied by LSPGC, was used to establish relevant physical and positional characteristics of the substation equipment and buildings. Sound pressure levels were predicted for the identified receptors in the Cadna/A noise modeling program using source sound power levels at each octave-band frequency and the model input parameters and assumptions described above. Sound modeling was completed for the substation layout and the predicted daytime, nighttime, and day-night noise levels at each receptor (the logarithmic sum of sound levels from every source) are included in **Tables 5-12**, **5-13**, and **5-14**, respectively. **Figures 5**, **6**, and **7** contain graphical representations of the predicted daytime, nighttime, and day-night noise levels, respectively. Results of the modeled daytime, nighttime, and day-night noise levels from the operation of all substation equipment (excluding existing noise levels) at the nearest sensitive receptor (R1, cultural resource site) 1,790 feet away was estimated to be 38 dBA L_{eq(day)}, 38 dBA L_{eq(night)}, and 45 dBA L_{dn} (or CNEL), respectively.

Table 5-12. Daytime Substation Noise Modeling Results at Nearest Sensitive Receptor

Receptor ID	Receptor Type	Distance and Direction from Center of Collinsville Substation Facility	Predicted Daytime Noise Level at Sensitive Receptor, Leq(day) (dBA)	Predicted Daytime Noise Level Plus Existing Level of 48 dBA, L _{eq(day)} (dBA) ¹	Daytime Noise Increase Above Existing Levels (dBA)
R1	Residential	1,790 feet southeast	38.2	48.4	0.4
R2	Residential	4,175 feet southwest	32.3	48.1	0.1
R3	Residential	4,280 feet west- southwest	32.4	48.1	0.1
R4	Cemetery	4,700 feet west- northwest	31.2	48.1	0.1

 $L_{\text{eq(day)}}$ = average equivalent sound level during daytime (7:00 a.m. to 10:00 p.m.).

dBA = A-weighted sound level.

ID = Identification.

Table 5-13. Nighttime Substation Noise Modeling Results at Nearest Sensitive Receptor

Receptor ID	Receptor Type	Distance and Direction from Center of Collinsville Substation Facility	Predicted Nighttime Noise Level at Sensitive Receptor, Leq(night) (dBA)	Predicted Nighttime Noise Level Plus Existing Level of 42 dBA, Leq(night) (dBA) ¹	Nighttime Noise Increase Above Existing Levels (dBA)
R1	Residential	1,790 feet southeast	38.2	43.5	1.5
R2	Residential	4,175 feet southwest	32.3	42.4	0.4
R3	Residential	4,280 feet west- southwest	32.4	42.5	0.5
R4	Cemetery	4,700 feet west- northwest	31.2	42.3	0.3

Notes:

 $L_{\text{eq(night)}}$ = average equivalent sound level during nighttime (10:00 p.m. to 7:00 a.m.).

dBA = A-weighted sound level.

ID = Identification.

¹ Summary of measured ambient (existing) daytime noise levels is provided in **Table 4-3**.

¹ Summary of measured ambient (existing) nighttime noise levels is provided in **Table 4-3**.

Table 5-14. Day-Night Substation Noise Modeling Results at Nearest Sensitive Receptor

Receptor ID	Receptor Type	Distance and Direction from Center of Collinsville Substation Facility	Predicted Day-Night Noise Level at Sensitive Receptor, L _{dn} (dBA)	Predicted Day- Night Noise Level Plus Existing Level of 50 dBA, L _{dn} (dBA) ¹	Day-Night Noise Increase Above Existing Levels (dBA)
R1	Residential	1,790 feet southeast	44.6	51.1	1.1
R2	Residential	4,175 feet southwest	38.7	50.3	0.3
R3	Residential	4,280 feet west- southwest	38.8	50.3	0.3
R4	Cemetery	4,700 feet west- northwest	37.7	50.2	0.2

dBA = A-weighted sound level.

ID = Identification.

5.3.2 Transmission Line Audible Noise During Operation and Maintenance

Corona-generated audible noise is the most common noise associated with transmission lines and is heard as a crackling or hissing sound. Corona is the breakdown of air into charged particles caused by electrical field at the surface of conductors. Once transmission lines are energized, the audible noise due to the line(s) would vary depending on weather conditions, with foul weather producing increased levels of audible noise over levels in fair weather. Corona-generated audible noise from the proposed LSPGC 230 kV Overhead Segment and the proposed PG&E 500 kV Interconnection was predicted using methods and equations developed by the Bonneville Power Administration (BPA) (Chartier and Larson 1977). The BPA audible noise calculation method (BPA method) is an empirical method developed from long-term statistical measurements on a number of full-scale operating or test transmission lines. It is specifically designed to calculate audible noise based on phase configuration, typical operating voltage, height above mean sea level, number of conductors in a bundle (if applicable), conductor diameter, and height above ground at maximum conductor sag. Information for the proposed PG&E 500 kV Interconnection was limited at the time this NVIA report was written. Therefore, a few assumptions were made based on physical and electrical characteristics of similar transmission lines. The physical and electrical characteristics (input data) used to calculate audible noise for the proposed LSPGC 230 kV Overhead Segment and the proposed PG&E 500 kV Interconnection are provided in Table 5-15.

¹ Summary of measured ambient (existing) day-night noise levels is provided in **Table 4-3**.

 L_{dn} = A-weighted equivalent sound level for a 24-hour period with a 10-dB adjustment added to sound levels occurring during nighttime hours (10:00 p.m. to 07:00 a.m.).

Table 5-15. Physical and Electrical Characteristics of New Transmission and Interconnection Lines

Line Characteristics	Proposed LSPGC 230 kV Overhead Segment	Proposed PG&E 500 kV Interconnection	Unit
Average Voltage	230	500	Kilovolt
Circuit Configuration	Double	Single	
Average Current	2,100	Data not available	Ampere
Frequency of AC Supply	60	60	Hertz
Electric Phasing	A C' B B' C A'	B A C	
Phase Spacing	39.4 to 45.9H, 26.2V	45.9H, 32.8V	feet
Horizontal Distance of Conductor Bundle from Center of Tower	A (-19.7) C'(19.7) B (-23.0) B'(23.0) C (-19.7) A'(19.7)	B (0.0) A (-29.5) C (29.5)	feet
Height of Conductor Bundle at Tower	A (118.1) C' (118.1) B (91.9) B' (91.9) C (65.6) A' (65.6)	B (124.7) A (91.9) C (91.9)	feet
Height of Conductor Bundle at Mid-span	A (85.3) C' (85.3) B (59.1) B'(59.1) C (32.8) A'(32.8)	B (65.6) A (32.8) C (32.8)	feet
Sub-conductor Spacing	18	18	inches
Sub-conductor Diameter	1.16	1.16	inches
Number of Sub-conductors in Bundle	2	2	
Centerline Distance to Edge of ROW	60.0	60.0	feet
Average Altitude	200	200	feet
Receptor Height	5	5	feet

H = horizontal spacing between conductor bundles

V = vertical spacing between phases

kV = kilovolt

AC = alternating current

ROW = right-of-way

The audible noise profiles in fair and foul weather at midspan were calculated for the proposed LSPGC 230 kV Overhead Segment and the proposed PG&E 500 kV Interconnection using the BPA method. The analysis evaluates the L_{50} audible noise levels assuming a rain rate of 1 millimeter per hour (0.04 inch per hour), which is the default rate for the BPA audible noise calculations.

The audible noise level for the proposed LSPGC 230 kV Overhead Segment with a conductor ground clearance of at least 33 feet and at an average altitude of 200 feet above sea level were calculated and plotted in **Figure 8**. A lower voltage or lower altitude would result in lower audible noise. The audible noise level in fair weather at the edges of the right-of-way (ROW) is approximately 9 dBA increasing to approximately 11 dBA within the ROW under the line (**Figure 8** Fair Weather). In foul weather, the audible noise level from the line increase to approximately 34 dBA at the edges of the ROW and approximately 36 dBA under the line within the ROW (**Figure 8** Foul Weather). One isolated residence is within one-quarter mile (1,320 feet) of the proposed LSPGC 230 kV Overhead Segment (i.e., 555 feet south of the line) (**Figure 3**).

The audible noise level for the proposed PG&E 500 kV Interconnection with a conductor ground clearance of at least 33 feet and at an average altitude of 200 feet above sea level were calculated and plotted in **Figure 9**. The audible noise level in fair weather at the edges of the ROW is approximately 38 dBA increasing to approximately 41 dBA within the ROW under the line (**Figure 9** Fair Weather). In foul weather, the audible noise level from the line increases to approximately 63 dBA at the edges of the ROW and approximately 66 dBA under the line within the ROW (**Figure 9** Foul Weather). There are no sensitive noise receptors within one-quarter mile (1,320 feet) from the proposed PG&E 500 kV Interconnection (**Figure 3**). As shown in **Figures 8** and **9**, the proposed PG&E 500 kV Interconnection would be the primary source of possible audible noise from the lines involved in the Proposed Project since lower voltage lines such as the proposed LSPGC 230 kV Overhead Segment contribute little-to-no audible noise under fair weather conditions. Although the contribution of the proposed LSPGC 230 kV Overhead Segment may increase in foul weather, the audible noise in foul weather from the lower voltage line (i.e., the proposed LSPGC 230 kV Overhead Segment) is less than from the proposed PG&E 500 kV Interconnection.

6 Impacts Significance Analysis

The significance of noise and vibration impacts from the Proposed Project's construction, operation, and maintenance have been analyzed by using the CEQA guidelines, Appendix G (as amended in December 2019), Environmental Checklist. The impact questions related to noise (and vibration) in the CEQA Environmental Checklist are discussed below:

a) Would the project result in the generation of a substantial temporary or permanent increase in ambient noise level in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Construction

Less Than Significant Impact. Short-term noise level increases from construction activities would cause significant impacts if the activities would conflict with local policies or standards. Noise from the Proposed Project construction activities is exempt from applicable standards during daytime hours. Any construction activities taking place outside the daytime hours would be considered to result in a significant impact if resulting noise levels at the receptors would exceed the Sacramento County and Contra Costa County exterior noise standard of 50 dBA L_{eq} for nighttime. The noise ordinances in Solano County and City of Pittsburg do not establish numerical noise-level limits related to construction noise. Although there are no quantitative local noise level standards applicable to the Proposed Project construction, a quantitative analysis of its construction noise is included in this analysis for informational purposes.

Proposed Project construction is scheduled to begin in early 2026 and take approximately 24 to 30 months to complete. The Proposed Project includes construction occurring on land and in water. The construction of inwater transition structures is anticipated to take approximately 6 months and installation of the submarine cables is anticipated to take approximately 7 months. In-water work would be restricted to between July 1 and November 30 and may require up to 2 years to complete within the work windows. Land-based construction would occur year-round or as authorized by permits and authorizations. Per the CAISO technical specifications, the Proposed Project is required to be energized by June 1, 2028.

Construction of the Proposed Project would generate noise that would temporarily increase ambient noise levels. The Proposed Project construction noise would be generated by the operation of on-site construction equipment such as water trucks, graders, loaders, excavators, and drill rigs, as well as from on-road sources such as vehicle trips transporting workers, equipment, and materials to and from the Proposed Project site. The magnitude of the impact at receptors would depend on the type of construction activity, equipment being used, duration of the construction phase, distance between the noise source and receiver, the presence of intervening structures that enhance attenuation, and the existing ambient noise levels at the receptors. Construction noise levels generated by equipment would also vary depending on several factors such as the type and age of equipment, specific equipment manufacture and model, the operations being performed, and the overall condition of the equipment and exhaust system mufflers.

Construction of the Collinsville Substation would consist of several phases, including survey, site development, below grade construction, above grade construction, commissioning and testing, and cleanup and restoration. Construction of the new overhead transmission and interconnection lines would consist of several phases, including access road construction, foundation installation, structure installation, and conductor installation. Near the southern edge of the Sacramento River and San Joaquin River confluence, open trenching methods of construction would be used to connect the submarine cables to an onshore underground utility vault. Each

construction phase would occur sequentially for a few months, and construction impacts were assessed for the nearest sensitive receptor to the work sites; impacts to sensitive receptors further away would be reduced. Details of the method and assumptions used to predict the Proposed Project construction noise, including the construction noise model (FHWA RCNM) and the reference L_{max} for each construction equipment at 50 feet, are discussed in Section 5.1. The result of the construction noise analysis by phase for the Collinsville Substation site, proposed PG&E 500 kV Interconnection, and the proposed LSPGC 230 kV Overhead Segment are summarized in Tables 5-1, 5-2, and 5-3, respectively. The result of the construction noise analysis by phase for the other landbased components are summarized in Tables 5-4 through 5-9. The noise modeling conservatively assumed that all construction equipment within each phase would operate simultaneously for the duration of that phase; in reality, all construction equipment would not occur concurrently. The new substation construction noise levels at nearest receptor, R1 (a cultural resource site located 1,790 feet away) range from 43 dBA during survey to 62 dBA during below grade construction and commissioning and testing. Construction noise levels at the other sensitive receptors (R2 [residential area], R3 [residential area], and R4 [cemetery]) located further away would be lower. The proposed PG&E 500 kV Interconnection construction noise levels at nearest receptor (1,950 feet away) range from 58 dBA during foundation installation to 72 dBA during structure installation. The proposed LSPGC 230 kV Overhead Segment construction noise levels at nearest receptor, R1 (555 feet away) range from 64 dBA during structure installation to 78 dBA during conductor installation. The predicted noise levels from the proposed LSGPC 230 kV Underground Segment, 12 kV distribution line extension construction, and the Pittsburg Substation modifications were all below 70 dBA at the nearest receptors (1,370 to 2,000 feet away). The primary source of noise during construction of the interconnection/transmission lines are helicopters used for structure installation and conductor installation. The noise level from construction of the telecommunications line extension was predicted to be 98 dBA at the nearest residential area located 20 feet away (single-family residences along Halsey Way and Marina Boulevard). The noise level from establishment and use of staging yards (without helicopters) south of the river near Pittsburg Substation is estimated to range from 61 dBA at residences 1,200 feet away to 74 dBA at residences 270 feet away. The noise level from establishment and use of staging yards (with helicopters) north of the river is estimated to be approximately 69 dBA at the nearest residential area located more than 0.5 mile away.

In-water construction activities associated the LSPGC Submarine Segment would generate some noise in the immediate vicinity; however, there are no onshore human receptors within one-half mile of the LSPGC 230 kV Submarine Segment in the Sacramento River. Therefore, noise from in-water construction activities would result in no impact on onshore human receptors.

Construction activities at the Proposed Project site would generally be scheduled to occur during daylight hours 6 days per week (Monday through Saturday). Night work is expected for submarine cable installation, which will occur 24 hours per day, 7 days per week until complete.

Although the Proposed Project construction would increase noise above existing ambient levels at the nearest receptors (particularly during construction of the telecommunications line extension in the city of Pittsburg), the increases would be temporary, intermittent, and occur only during daylight hours when elevated noise is more tolerable. Additionally, noise from construction activities in Sacramento, Solano, and Contra Costa counties and City of Pittsburg is exempt from applicable standards during daytime hours. Therefore, the Proposed Project construction noise would result in a less-than-significant impact.

In addition to noise generated by on-site construction equipment, construction-related vehicle trips would increase noise levels along roadways leading to the Proposed Project site. Access to the Collinsville Substation site for construction equipment, supplies, and workers would likely be from Sacramento via Highway 80. A permanent

access road to the new substation would also be constructed. The peak vehicle trips would likely occur during the earthwork and grading of the Proposed Project (e.g., site development and below-grade construction activities) due to the removal or importation of fill. Peak vehicle round trips during the new substation construction period is expected to be approximately 100 per day. During the new transmission line and interconnection line construction period, peak vehicle round trips is expected to be approximately 156 per day.

Other periods of the Proposed Project construction would have lower daily vehicle trips, and therefore would have correspondingly lower noise levels. The addition of 216 construction-related daily vehicle trips on Highway 80 would increase ambient traffic noise levels along the highway, but any increase would be minimal, as these trips would be spread out throughout the day. Therefore, the Proposed Project construction traffic noise would result in a less-than-significant impact.

Operation and Maintenance

Less Than Significant Impact. Long-term operation and maintenance noise impacts would be considered significant if the Proposed Project-related noise would exceed the County (Solano, Sacramento, and Contra Costa) exterior noise standards of 55 dBA L_{eq} or L₅₀ during daytime hours (i.e., 7:00 a.m. to 10:00 p.m.) or 50 dBA L_{eq} or L₅₀ during nighttime hours (i.e., 10:00 p.m. to 7:00 a.m.). For most common noise sources, L₅₀ can be interpreted as close to the L_{eq} metric. The General Plan for Solano County, Sacramento County and Contra Costa County specifies CNEL-based community noise exposure levels that consider the contributions of daytime and nighttime noise levels. The maximum allowable noise exposure level for residential land use is 60 dBA CNEL. For typical community noise environments, the CNEL and L_{dn} levels are nearly always within 1 dB of each other and, therefore, are commonly used interchangeably (as would be the case in this NVIA report). The General Plan for the City of Pittsburg considers a 3 dB increase in ambient noise to be just noticeable, a 5 dB increase as a significant impact, and a 10 dB increase to almost always cause an adverse community reaction.

The primary sources of noise associated with operation of the Collinsville Substation would be from six (6) single phase step-down autotransformers and their associated cooling fans (seventh autotransformer is a spare); two (2) HVAC units mounted on the sides of a control enclosure; eight (8) HVAC units mounted on the sides of two GIS halls (four HVAC units per GIS hall); and two 10-ohm series reactors per 230 kV line (triangle arrangement). Details of the method and assumptions used to predict the new substation operational noise, including the threedimensional industrial noise model (Cadna/A) and the sound power level of each source type, are discussed in Section 5.3.1. The Collinsville Substation operational noise modeling results are presented in Tables 5-12 to 5-14 and shown visually as noise contours in Figures 5 to 7. The results of the modeled daytime, nighttime, and daynight noise levels from the operation of all substation equipment (excluding existing noise levels) at the nearest sensitive receptor (R1, a cultural resource site) 1,790 feet away was estimated to be 38 dBA Leg(day), 38 dBA Leg(night), and 45 dBA Ldn (or CNEL), respectively. The results indicate that predicted noise levels for the Collinsville Substation would be below Solano, Sacramento, and Contra Costa County's exterior noise standards of 55 dBA L₅₀ (or L_{eq}) and 50 dBA L₅₀ (or L_{eq}) during daytime and nighttime hours, respectively. The predicted operational noise levels would also be below the Solano, Sacramento, and Contra Costa County General Plan allowable noise exposure level of 60 dBA CNEL (or Ldn) for residential land uses. Tables 5-12 to 5-14 also show that noise increases above existing ambient levels at the nearest receptor, R1 (1,790 feet away) would range from 0.4 to 1.5 dB, which is not perceptible to the residential community as indicated in the General Plan for the City of Pittsburg. Therefore, noise associated with the Collinsville Substation operational equipment would result in a less-thansignificant impact.

Corona-generated audible noise in fair and foul weather from the proposed LSPGC 230 kV Overhead Segment and the proposed 500 kV Interconnection was predicted using methods and equations developed by the BPA (Chartier and Larson 1977). The BPA method is specifically designed to calculate audible noise based on phase configuration, typical operating voltage, height above mean sea level, number of conductors in a bundle (if applicable), conductor diameter, and height above ground at maximum conductor sag. The predicted audible noise level for the new 230 kV transmission line in fair weather at the edges of the ROW is approximately 9 dBA increasing to 11 dBA within the ROW under the line (Figure 8 Fair Weather). In foul weather, the audible noise level from the proposed LSPGC 230 kV Overhead Segment increases to approximately 34 dBA at the edges of the ROW and 36 dBA under the line within the ROW (Figure 8 Foul Weather). The proposed LSPGC 230 kV Overheard Segment audible noise level at nearest receptor (555 feet away) is approximately 0 dBA in fair weather and 25 dBA in foul weather; both levels are below the existing daytime and nighttime noise levels of 48 dBA and 42 dBA, respectively. For the proposed PG&E 500 kV Interconnection, audible noise level in fair weather at the edges of the ROW is approximately 38 dBA increasing to 41 dBA within the ROW under the line (Figure 9 Fair Weather). In foul weather, the audible noise level from the proposed PG&E 500 kV Interconnection increases to approximately 63 dBA at the edges of the ROW and 66 dBA under the line within the ROW (Figure 9 Foul Weather). Although noise levels at the ROW of the proposed PG&E 500 kV Interconnection are much higher than that for the proposed LSPGC 230 kV Overhead Segment, there are no sensitive noise receptors within onequarter mile (1,320 feet) from the proposed PG&E 500 kV Interconnection. Additionally, existing sound levels under foul (wet) weather conditions would be higher than the levels measured under fair (dry) weather conditions. Consequently, under foul weather conditions, the increased existing sound levels (i.e., from rainfall) are expected to mask most of the audible noise from the transmission and interconnection lines. Therefore, noise from the proposed LSPGC 230 kV Overhead Segment and the proposed PG&E 500 kV Interconnection would not be audible at the nearest sensitive receptors and as such, would result in no impact.

The proposed LSPGC Collinsville Substation would be unstaffed and operated remotely. System-wide assessments would be accomplished primarily through visual inspections, which would consist of monthly observations of the substation and related equipment. LSPGC would regularly inspect, maintain, and repair the Proposed Project following construction. Typical operations and maintenance activities would involve routine inspections and preventive maintenance to ensure service reliability, as well as emergency work to maintain or restore service. The routine on-site inspection and maintenance activities would be conducted by small, specialized teams at the Proposed Project site. Such activities would result in a negligible number of vehicle trips per year (light utility trucks) that would not be anticipated to have a substantive impact on traffic noise along roadways in the Proposed Project vicinity. PG&E would be responsible for maintaining and operating its respective portions of the Proposed Project. Considering the small number of infrequent trips associated with the Proposed Project's operation, inspection, and maintenance, the Proposed Project is anticipated to have a negligible impact on roadside traffic noise levels in the vicinity.

On-site activities are not anticipated to result in noise levels in excess of existing wind farms, agricultural lands, and electrical infrastructure operations on the Proposed Project site and surrounding properties. Therefore, on-site maintenance is not anticipated to result in a substantial increase in noise levels.

2. Would the project result in the generation of excessive groundborne vibration or groundborne noise levels?

Construction

Less Than Significant Impact. Groundborne vibration or noise levels from construction activities are considered significant if they cause damage to structures, or cause sleep disturbance if such activities occur at night near residential areas. There are no vibration sensitive structures identified in the Proposed Project's immediate vicinity. Construction activities would take place mostly during daylight hours, and the nearest noise sensitive receptor (R1, a cultural resource site) to the Collinsville Substation site, proposed LSPGC 230 kV Overhead Segment, and the proposed PG&E 500 kV Interconnection is 1,790 feet, 555 feet, and 1,950 feet away, respectively. The nearest receptors to the other land-based components range from 20 feet (telecommunications line extension construction) to 2,000 feet (Pittsburg Substation modifications).

The six pieces of equipment types most likely to create vibration during the Proposed Project construction include a drill rig, large bulldozer, loaded truck, vibratory roller, vibratory hammer, and impact pile driver. Details of the method and assumptions used to predict the Proposed Project construction vibration, including reference vibration levels at 25 feet for the six pieces of equipment, are discussed in Section 5.2. Vibration levels generated by the six pieces of equipment at a reference distance of 25 feet are shown in **Table 5-10**. The table also shows the distance at which noise generated by these pieces of equipment attenuate to the Caltrans' thresholds for building damage and human annoyance at residential uses.

As shown in **Table 5-10**, groundborne vibration attenuates rapidly with distance from the construction work sites. The Caltrans' vibration threshold for building damage (older residential structures) is 0.3 PPV inch per second; vibration from construction equipment would attenuate to below this level within 50 feet of the source and would not cause any cosmetic or structural damage to the nearest structure 555 feet away (except for single-family residences located 20 feet from telecommunications line extension construction). For the telecommunications line extension construction, the only piece of equipment most likely to create vibration is loaded trucks (i.e. there would be no bulldozer, drill rig, vibratory roller, vibratory hammer, or impact pile driver). **Table 5-10** shows that vibration from loaded trucks would attenuate to below the vibration damage criterion (0.3 PPV inch per second) within 10 feet of the source and would not cause any cosmetic or structural damage to the nearest structures 20 feet away.

The Caltrans' threshold for human annoyance at residential uses is 0.01 inch per second; vibration from construction equipment would attenuate to below this level within 480 feet of the source and would not be perceptible at the nearest sensitive receptor 555 feet away (except for single-family residences located 20 feet from telecommunications line extension construction). For the telecommunications line extension construction, the only piece of equipment most likely to create vibration is loaded trucks. **Table 5-10** shows that vibration from loaded trucks would attenuate to below the vibration annoyance criterion (0.01 PPV inch per second) within 97 feet of the source and could be strongly perceptible to people living in single-family residences 20 feet away. To minimize vibration annoyance impacts from loaded trucks, the telecommunications line extension work would be conducted during the daytime when most people are not in the area (e.g., at work). Consequently, the loaded trucks would not operate at night and as such, would not cause sleep disturbance near the residential area. Because of distance attenuation and prohibition of nighttime work, the Proposed Project construction would not have the potential to generate significant short-term groundborne vibration or groundborne noise at the nearest sensitive receptors. Therefore, construction-related vibration and groundborne noise associated with the Proposed Project would result in a less-than-significant impact.

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No Impact. The Proposed Project would not include the use of any large rotating equipment during its operation that would introduce any new sources of perceivable groundborne vibration. In addition, operation and maintenance activities at the Proposed Project site would not require the use of heavy equipment that would generate high vibration levels. Therefore, the Proposed Project has no potential to generate groundborne vibration levels greater than the significance criteria for structural damage to older residential structure (0.3 inch per second) or for human annoyance (0.01 inch per second). Therefore, vibration from the Proposed Project's operation and maintenance would result in no impact.

3. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No Impact. The Proposed Project site is not located within the vicinity of a private airstrip or within 2 miles of a public airport or public use airport. Consequently, the Proposed Project would not expose people residing or working at the site to excessive noise levels from aircraft. Therefore, there would be no impact.

7 Conclusions

The findings of this NVIA report are that under CEQA, the noise impact associated with the construction, operation, and maintenance of the Proposed Project would be less than significant. Similarly, vibration impact associated with the construction of the Proposed Project would be less than significant; however, vibration from the Proposed Project's operation and maintenance would result in no impact.

8 References

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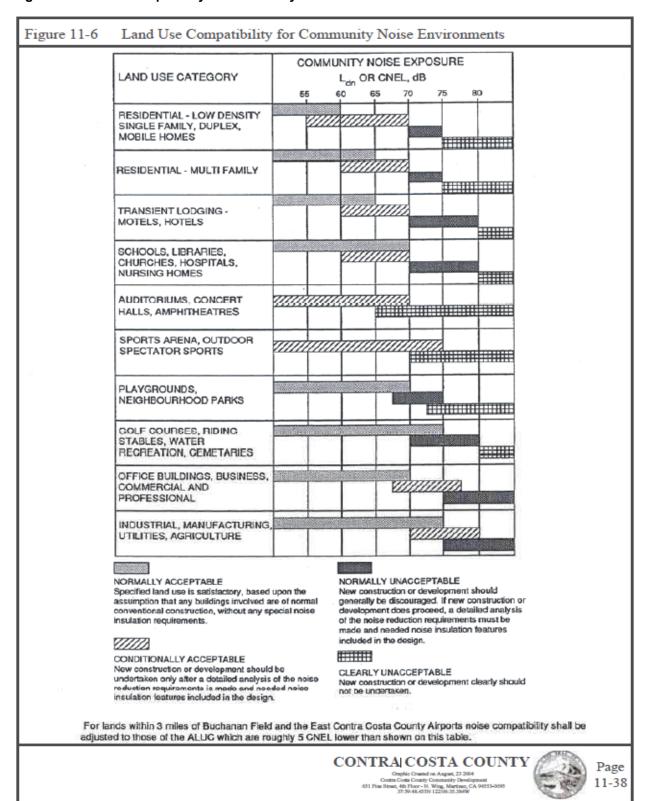
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Figures



Figure 4: Land Use Compatibility for Community Noise Environments



Source: Contra Costa County 2010

Figure 8

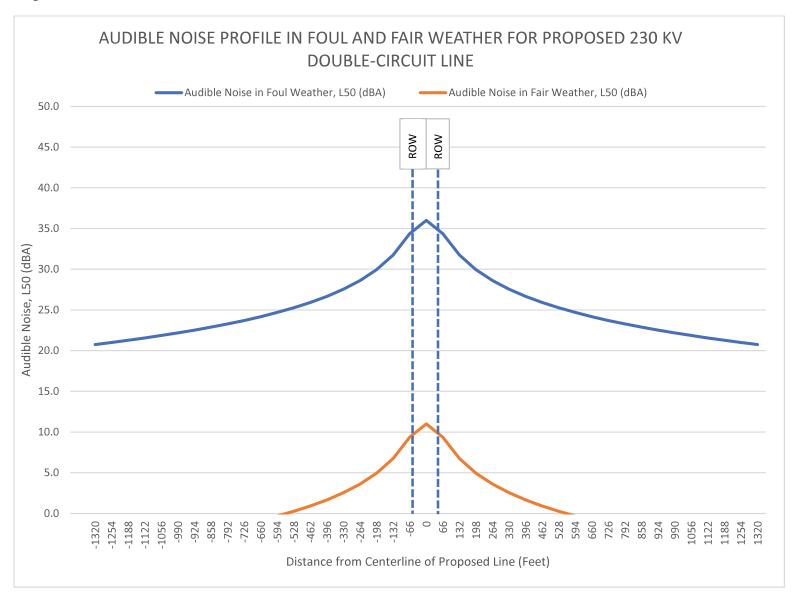
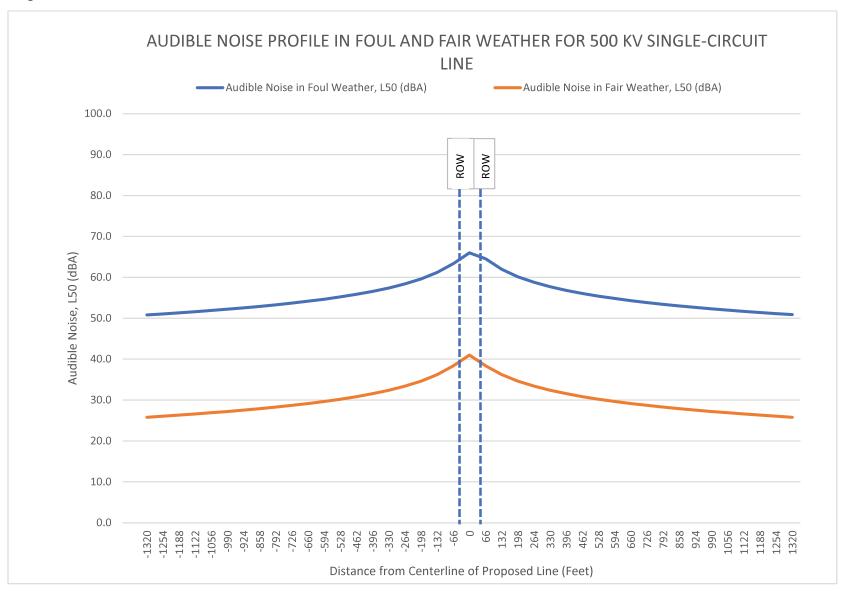


Figure 9



Appendix A

Instrument Certificate of Calibration

FA04179 CASELLAS

Certificate of Conformity and Calibration

CEL-633C Instrument Model:-

0499599 Serial Number V006-05 Firmware revision

CEL-251 **CEL-495** Preamplifier Type:-Microphone Type:-2845 004704 Serial Number Serial Number

Instrument Class/Type;-

Applicable standards:-

IEC 61672: 2013 / EN 60651 (Electroacoustics - Sound Level Meters) IEC 60651 1979 (Sound Level Meters), ANSI S1.4. 1983 (Specifications For Sound Level Meters)

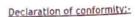
Note:- The test sequences performed in this report are in accordance with the current Sound level meter Standard - IEC61672. The combination of tests performed are considered to confirm the products electro-acoustic performance to all applicable standards including superceeded Sound Level Meter Standards - IEC60851 and IEC60804.

Test Conditions:-

21 °C 33 WRH 996 mBar Test Engineer:-Date of Issue:-

Stephen Adams September 28, 2022





This test certificate confirms that the instrument specified above has been successfully tested to comply with the manufacturer's published specifications. Tests are performed using equipment traceable to national standards in accordance with Casella's ISO 9001:2015 quality procedures. This product is certified as being compliant to the requirements of the CE Directive.

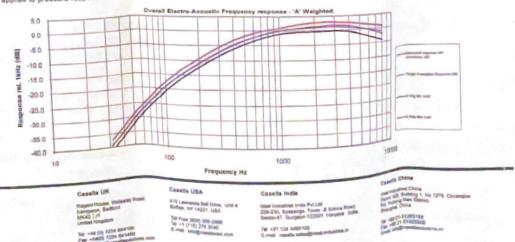
Test Summary:

All Tests Pass Self Generated Noise Test All Tests Pass Electrical Signal Test Of Frequency Weightings All Tests Pass Frequency & Time Weightings At 1 kHz All Tests Pass Level Linearity On The Reference Level Range All Tests Pass Toneburst Response Test All Tests Pass C-peak Sound Levels All Tests Pass Overload Indication All Tests Pass Acoustic Tests

Combined Electro-Acoustic Frequency Response - A Weighted

Combined Electro-Acoustic Frequency Response - A Weighted (IEC 61672-3:2006)

The following A-Weighted frequency response graph shows this instruments overall frequency response based upon the application of multi-frequency pressure field calibrations. The microphones Pressure to Free field correction coefficients are applied to pressure response. Reference level taken at 1kHz.





Certificate of Conformity and Calibration

Customer: Eco-Rental Solutions

Instrument: CEL-120/2

Serial Number: 4039312

Job Number: 26544

Date of Issue: 28-Sep-2022

Engineer: S. Adams

Traceable Equipment: Reference Calibrator EQ11086

DVM type Fluke 45 EQ00023

Test Conditions:

Ambient Temperature 21.0 °C
Ambient Humidity 33.0 %RH
Ambient Pressure 996 mBar

Results:

Uncertainty:

Level ± 0.15 dB Frequency ± 0.5 Hz

This test certificate confirms that the instrument specified above has been successfully tested to comply with the manufacturer's published specifications.

Tests are performed using equipment traceable to national standards in accordance with Casella's ISO 9000:2015 quality procedures.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.

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Certificate of Conformity and Calibration

Instrument Model:-

CEL-633C

Serial Number

2511397 V129-09

Firmware revision

CEL-251

L-231

Preamplifier Type:-

CEL-495

Microphone Type:-

Serial Number

1/1

Serial Number

003768

Instrument Class/Type:-

1

Applicable standards:-

IEC 61672; 2013 / EN 60651 (Electroacoustics - Sound Level Meters) IEC 60651 1979 (Sound Level Meters), ANSI S1.4: 1983 (Specifications For Sound Level Meters)

Note:- The test sequences performed in this report are in accordance with the current Sound level meter Standard - IEC61672. The combination of fests performed are considered to confirm the products electro-acoustic performance to all applicable standards including superceeded Sound Level Meter Standards - IEC60631 and IEC60804.

Test Conditions:-

23 °C

Test Engineer:-

Paul Blackwell October 24, 2022

44 %RH 996 mBar

Declaration of conformity:-

This test certificate confirms that the instrument specified above has been successfully tested to comply with the manufacturer's published specifications. Tests are performed using equipment traceable to national standards in accordance with Casella's ISO 9001:2015 quality procedures. This product is certified as being compliant to the requirements of the CE Directive.

Test Summary:-

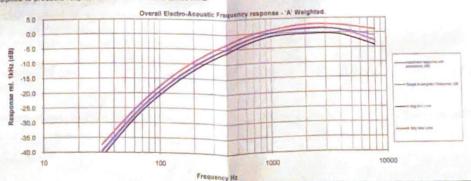
Self Generated Noise Test
Electrical Signal Test Of Frequency Weightings
Frequency & Time Weightings At 1 kHz
Level Linearity On The Reference Level Range
To-peak Sound Levels
Overload Indication
Acoustic Tests

All Tests Pass

Combined Electro-Acoustic Frequency Response - A Weighted

Combined Electro-Acoustic Frequency Response - A Weighted (IEC 61672-3:2006)

The following A-Weighted frequency response graph shows this instruments overall frequency response based upon the application of multi-frequency pressure field calibrations. The microphones Pressure to Free field correction coefficients are applied to pressure response, Reference level taken at 1kHz.



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Casella China

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To: +86.01.31383188 Fax: +89-21.41809908



Certificate of Conformity and Calibration

Customer:

Eco-Rental Solutions

Instrument:

CEL-110/1

Serial Number:

301160

Job Number:

26739

Date of Issue:

24-Oct-2022

Engineer

P Blackwell

Traceable Equipment:

Reference Calibrator DVM type Fluke 45

EQ11085 EQ00318

Test Conditions:

Ambient Temperature **Ambient Humidity Ambient Pressure**

°C 23.0 44.0 %RH 996 mBar

Results:

Level 1

Level 2

Frequency

Initial Reading

113.95 dB

93.94 dB

1.0001 kHz

Final Reading

114.00 dB

94.05 dB

1.0001 kHz

Uncertainty:

Level Frequency 0.15 dB 0.5

This test certificate confirms that the instrument specified above has been successfully tested to comply

with the manufacturer's published specifications. Tests are performed using equipment traceable to national standards in accordance with Casella's ISO 9000:2015 quality procedures.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%

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rig. MA 01564-2305 Toll Free: (800) 366 2968 IDEAL industries India Pet Ltd 229-230 Tower-B Spassage, Sector 47, Sohna Road, Gurgaco-122001, India 741 -91 124 4495100 E Casalia Santonia

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Appendix B

Photograph Log

Photograph Log

ARCADIS

LS Power Grid California, LLC Collinsville Substation 30193297



Photograph: 1

Description:

Collinsville 24HR Monitoring Location

Location:

Collinsville, CA

Photograph taken by: Mary-Catherine Goddard

Date: 9/25/2023

www.arcadis.com 1

Photograph Log

ARCADIS

LS Power Grid California, LLC Collinsville Substation 30193297



Photograph: 2

Description:

Collinsville Short Term Monitoring Location

Location: Pittsburg, CA

Photograph taken by: Mary-Catherine Goddard

Date: 9/25/2023

www.arcadis.com 2

NOISE SUPPLEMENTAL INFORMATION

APPENDIX I.2

Noise Modeling

1 Methods and Assumptions

1.1 Methodology

1. **Equipment L**_{eq} at distance **A.** For each equipment type, hourly L_{eq} at distance **A** (feet) was calculated from the standard L_{max} at 50 ft for each equipment type as listed in the Federal Highway Administration's (FHWA's) *Roadway Construction Noise Model, Version 1.0: User's Guide* (Federal Highway Administration (FHWA) 2006), adjusted for usage and distance, with aggregation for multiple identical units:

Formula:

$$L_{eq,A} = L_{max,50\,ft} + 10log_{10} \left(\frac{Usage\,\%}{100} \right) - 20log_{10} \left(\frac{A}{50} \right) + 10log_{10}(N)$$

Where:

- L_{max,50 ft} = Lmax at 50 feet from FHWA 2006
- Usage % = Default usage factors from FHWA 2006, except for equipment used for the 230 kV submarine cable, for which use was taken as (hours/day) ÷ 12 hours.
- A = target distance (feet)
- N = estimated number of identical units (co-located and same distance)
- 2. **Aggregation and attenuation**: In Excel, macro functions were used for calculation of noise aggregation and attenuation of noise levels at distance X:

Function	Excel formula
dBSUM	=10*L0G10(10^(Cell1/10) + 10^(Cell2/10) + 10^(Cell3/10))
dBDistance	=Cell1 - 20*LOG10(Cell2/Cell3) in which Cell 1 is the reference noise level at the referece distance, Cell 2 is the target distance, and Cell 3 is the reference distance
dBSubtract	=10*L0G10(10^(Cell1/10) - 10^(Cell2/10))

- 3. **Noise levels for each component phase at receptors**: For each receptor, project noise level was calculated for each component phase for the distance from the component to the receptor. For linear components, project noise level was calculated for the closest point in the alignment to each receptor.
- 4. Insertion losses at receptors: For each component, an insertion loss was taken as follows:

- NR1 and NR2: Insertion loss of 10 dBA for earthen levee between receptor the 230kV submarine cable and the 230 kV northern transition approach (U.S. Army Corps of Engineers 2023; Solano LAFCA 2014; FHWA 2006; FHWA 2017)
- NR3: Insertion loss of 10 dBA for 8-foot sound wall between receptor and the Pittsburg Substation, Pittsburg Substation staging yards east and west, 230 kV underground segment, and 230 kV submarine segment alignment (FHWA 2017)
- 5. **Overlap periods.** Overlap periods represent distinct phase combinations as the occur chronologically. An overlap period starts whenever any phase starts or ends and then ends immediately before the next such change. For each receptor, overlap scenarios are identified and project noise levels after insertion loss, as calculated in step 4, are combined via logarithmic summation for each scenario.
- 6. **Project noise combined with existing ambient noise levels**: Project noise levels for each overlap period (step 5) are combined with existing measured noise levels (see below) for each receptor (see Assumptions, below).

1.2 Mitigation Scenarios

Noise level ranges are calculated at each receptor for the following mitigation scenarios:

- **Primary**: No mitigation. Assumes use of helicopters within Solano County during the entire work period of 7 a.m. to 7 p.m., Monday through Saturday.
- MM NOI-1: Helicopter usage restricted in Solano County to the hours of 9 a.m. to 4 p.m. Monday through Saturday, during which time noise levels resulting from temporary construction activity are allowed up to 75 dBA Leq. This represents overlapping noise levels that would occur at receptors in Solano County outside of the hours of 9 a.m. to 4 p.m. Monday through Saturday.
- MM NOI-2: Installation of sound walls at the Collinsville Substation site engineered for a reduction of at least 10 dBA at the source. This respresents the overlapping noise levels that would occur at receptors in Solano County during the hours of 9 a.m. to 4 p.m., Monday through Saturday, after with the implementation of sound wall mitigation when helicopters are in use in Solano County.
- MM NOI-1 and MM NOI-2 Helicopter usage restricted in Solano County to the hours of 9 a.m. to 4 p.m. Monday through Saturday and installation of sound walls at the Collinsville Substation site engineered for a reduction of at least 10 dBA at the source. This represents the overlapping noise levels that would occur at receptors outside of the hours of 9 a.m. to 4 p.m., Monday through Saturday, with implementation of sound wall mitigation.
- MM NOI-1, MM NOI-2, and MM NOI-4: Helicopter usage restricted in Solano County to the hours of 9 a.m. to 4 p.m. Monday through Saturday, installation of sound walls at the Collinsville Substation site engineered for a reduction of at least 10 dBA at the source, and construction activities at Transpositon Site C and Alternative 2 substation site restricted to the hours of 9 a.m. to 4 p.m. Monday through Saturday. This represents the overlapping noise levels that would occur at NR6 outside of the hours of 9 a.m. to 4 p.m., Monday through Saturday, with implementation of sound wall mitigation.

1.3 Existing Ambient Noise Levels at Receptors

- NR1 Residences along Latin Road in Solano County: Noise measurements taken by Aracadis at NM2 (Arcadis U.S., Inc. 2024)
- NR2 Residences along Collinsville Road in Solano County: Noise measurements taken by Arcadis at NM2 (Arcadis U.S., Inc. 2024)
- NR3 Residences along Halsey Couty and Halsey Way in Pittsburg: Noise measurements taken at Halsey Court by Arcadis at NM1 (Arcadis U.S., Inc. 2024)
- NR2a1 Residences at Collinsville Road and Talbert Lane: Caltrans assumed baseline noise level for agricultural and rural-residential land (Caltrans 1998; CPUC 2013)
- NR6 Single-family residence at Birds Landing Road (Proposed Project NR6):
 Caltrans assumed baseline noise level for agricultural and rural-residential land (Caltrans 1998; CPUC 2013)

1.4 Analog Equipment for Noise Modeling

In cases where construction equipment types are not explicitly listed in the *Roadway Construction Noise Model, Version 1.0: User's Guide* (Federal Highway Administration (FHWA) 2006), acoustically similar equipment is used as an analog. This ensures that modeled noise levels reasonably represent the expected sound characteristics of the unlisted equipment. Analalogue equipment noise levels were used for the following project equipment types:

- Anchor winch: Mapped to portable generator. While not mechanically identical, both are stationary, motor-driven devices producing steady-state mechanical noise in the mid-80 dB range at 50 feet.
- Barge tug: Mapped to tugboat (workboat). Tugs are large marine engines producing continuous propulsion and maneuvering noise, generally around 87 dB at 50 feet.
- Small boats: Mapped to outboard motorboat. These have smaller engines and broadband noise emissions, generally around 85 dB at 50 feet.
- Anchor tug: Mapped to tugboat (workboat). Functionally and acoustically similar to barge tugs, producing 87 dB at 50 feet.

1.5 References

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Proposed Project and Alternatives Noise Impacts Modeling

			es Noise impacts Modeting
Proposed Project Existing			
Ambient sound Levels			
Location	Day	Night	Day/night
NR3: City of Pittsburg (NM1)	46	40.0	50
NR1, NR2: Solano County (NM2)	48	42.0	48
NR4, NR5, NR6: Solano County	30	30	30
NR7: Contra Costa	30	30	30
Alternatives Existing Ambient			
sound Levels			
Location	Day	Night	Day/night
NR2a1	48	42.0	48
NR6	48	42.0	48
Sources: California Department			
Of Transportation (Caltrans).			
1998. Technical sound			
Supplement. 1998; Arcadis U.S.,			
Inc. 2024. sound and Vibration			
Impact Assessment Report.			

Proposed Project sound- sensitive Receptors Solano County										
oounio oouniy	Distance from	Distance from Collinsville	Distance from 230 kV	Distance from 230 kV	Distance from	Distance from PG&E 500 kV		Distance from BC 9 E	Distance from PG&E	Distance from BC ! E
Receptor	Coll nsv lle substation site (feet)	Substation north staging yard	overhead segment (feet)	submarine segment (feet)	northern transition approach	interconnection loop (feet)		Transposition Site A	Transposition Site B	Transposition Site C
NR1: Single-family										
residences along Latin Lane	3,545	3,090	4,500	2,750	4,400	4,025	2,351			
NR2: Single-family	3,343	3,090					2,331			
residences along Collinsville Road	3,787	3,200	4,107	3,965	5,500	4,070	1,331			
NR4: Single-family										
residence at Box R Ranch Road								1,000		
NR5: Single-family residence at Mauds Lane									90	
NR6: Single-family										
residence at Birds Landing Road										1,1
Lanung Koau										1,1
Alternatives sound- sensitive Receptors Solano County										
	Distance from Coll nsv lle substation site (feet)	Distance from Collinsville Substation north staging yard	Distance from 230 kV overhead segment (feet)		Distance from northern transition approach	Distance from PG&E 500 kV interconnection loop (feet)		Distance from PG&E Transposition Site A	Distance from PG&E Transposition Site B	Distance from PG&E Transposition Site C
Receptor NR2a1: Single-family		Staging yaru				(reet)				
Residence at Talbert			4,690	2,850	2,750	9,450				
Lane	9,200	7,500					8,850			
N2a2: Single-family residence at Birds										
Landing Road	20,850	19,890	21,030	24,290	23,500	15,690	22,270			1,1
Proposed Project sound- senstive Receptors City										
of Pittsburg			Distance from Bitts burg	Distance from Pittsburg		Distance from 230 kV	Ditanance from			
Receptor	Distance from 230 kV underground segment	Distance from Pittsburg Substat on		Substat on stag ng yard west	Distance from telecom line interconnection		southern transition approach			
NR3: Resiences along Halsey Court and Halsey										
Way	1,900	250	290	1,520	45	2,400	2,400			
Proposed Project sound- senstive Receptors	I									
Contra Costa County	Distance from PG&E									
Receptor NR7: Single-family	Transpos t on S te D									
NK7: Single-tamily residence along Meridian Road	345									
ronuidii Nudu	343									
Courses: Earl 2025 "Hub	rid Reference Laver (LIS Fo	lition)." Vector digital data	Using Arc GIS Online (Sen	tember 18 2025). Februar	11 2025 Raseman Last	undated Sentember 12 20	25 https://www.arcdis.co	m/home/item.html?id=54	47e9aef0684ec391ae938	1725f7370

LS Power Grid California, LLC
October 2025 2 Collinsville 500/230 kW Substation Pr

LSPGC Collinsville Subst.	tation – Site Development															
			FHWA RCNM									Proposed Pro ec				
			Cons uc on								Ca cu a ed sound eve	Ca cu a ed sound eve	Al e na ve 1 Cacua ec	Ale na ve 1 Cacua ed	Ale na ve 2 Cacua ed	Al e na ve 2 Cacua ed
			Equipmen Lmax a 50												sound eve a NR1	
	Ho sepowe	uni s	Fee dBA	Usage Fac o %	at 100 ee Leq dBA	at 500 ee Leq dBA	at 1000 ee LeqdBA	at 1500 ee LeqdBA	at 2500 ee LeqdBA	at 5000 ee LeqdBA	dBA	dBA	fee LeqdBA	5400 ee LeqdBA	19170 ee LeqdBA 2	fee LeqdBA 2
Truck - Water 4000																
Gallons	30	0 4	4 72	2 409			48	4	5 40	34	37	37	2	33	37	22
Loader - 4-5 Yards	22	0	2 79	9 409	72	58	52	4	44	38	41	43	3.	3	7 41	26
Truck - Dump 10-12																
Yards	41		5	409	7:	57	51		45	37	40		2	2	4	25
Motor Grader	2!		2 81				58	5	5 50	44		47		9 4	3 47	22
			4 8													
Scraper	4:									46		46				
Vibratory Roller	15		2 80							36		36	3			
Pickup - 1/2 Ton	39		4 75										3			
Generator – 25 kW		16	2 8:									4				
Forklift - 15000 Pounds	12	10	4 8		8:		61	5	B 53	47		50	4	2 46	50	35
Pickup - 1 Ton	4:	.0	4 7!	5 40	7:	57	51	4	8 4	37	40	40	3	2 36	6 40	25
844 Loader	4:		1 79				45	4	5 4	35		35	3	3	4 38	23
Semi Truck	5		2 7							33		36	2	8 3		
					86		RF RF	6		50		51	46	9 51.5		
Combined					88		bt	ь	a 50	50	bb	55	46.	51.3	54.6	40.5
	+	+														
ISBOO CARLANGIA C	tetter Between Com: "	1	!	1					!					!		
LaroU Counsville Subst	tation - Below-Grade Cor	ocrucu00	1	1					1					1		
			FHWA RCNM													
			Cons uc on												i Ale na ve 2 Cacua ed	
		Es ma ed numbe o	Equipmen Lmax a 50		Ca cu a ed sound eve	Ca cu a ed sound eve	Calcula edisound eve	Ca cu a ed sound eve	sound eve a NR1 920	sound eve a NR2a1	sound eve a NR1	sound eve a NR63780				
Equ pmen	Ho sepowe	uni s	Fee dBA	Usage Fac o %	at 100 ee Leg dBA	at 500 ee Leg dBA	at 1000 ee Leg dBA	at 1500 ee Leq dBA	at 2500 ee Leq dBA	at 5000 ee Leg dBA	at NR1 3545 ee	at NR2 3787 ee	fee LegdBA	5400 ee LeqdBA	19170 ee LegdBA 2	fee LegdBA 2
Truck - Water 4000																
Gallons	31	10	2 7	2 40	6	54	48	4	5 4	34	37	3:	2	9 3:	3	22
Excavator	1		2 8	1 40	74	60	54	5	1 4	40	43	4	3	5 3	9 43	28
Forklift - 15000 Reach	1:		3 8							46		4	4	1 4		
Backhoe - 2X4		8	2 7							3 37		4	-	2 3		
												4	3			
Pickup - 1/2 Ton	30		4 7									4	3	2 3		25
Pickup - 1 Ton	4		4 7							37		4	3	2 3	J 40	25
Excavator - Mini		70	1 8		7.		51	4	8 4	37		4	3	2 3	6 40	25
Generator - 25 kW		66	1 8	1 50	7.	2 58	50	4	9 4	38	41	4	3	3 3	7 41	26
Truck - Concrete	4	15	4 7	9 40	7	61	55	5	2 4	45	44	4	3	6 4	0 44	4 29
Loader - 4-5 Yards	2	in .	2 7	9 40	7.	5.5	50	- 4	9 4	38		4	3	3 3	7 41	26
Pressure Digger - Lo-Drill				-			-								-	-
(Tracked)	z	_	_	4 20	. 7				_				_	_		
			1 8				51	4	8 4	3 3	40	4	3	2 3	40	25
Excavator	2	75	1 8	1 40	7	1 57	5:	4	8 4	3 37	40	4	3	2 3	40	25
Truck - Dump 10-12																
Yards	4	15	3 7	6 40	5 7.	57	51	4	8 4	3	7 40	4	3	2 3	á 40	25
Tool - Van/Conex 20 Feet	et	0	6 8	5 50	8	4 70	64	6	1 9	50	53	5	4	5 4	3 57	38
Trencher		75	2 8		7-	60	5-	5	1 4	40	4	4	3	5 3	9 43	3 28
Skid steer loader		74	2 7					4				4	3			
Combined		1	7	40						5		-	48.		3 56.1	
Compined					8	/4	60		4 6	5	5.		48.	4 b	56.3	42
	+	+			+											
LSPGC Collinsville Subst	tation - Above-Grade Cor	struction														
			FHWA RCNM													
			Cons uc on										Al e na ve 1 Ca cu a e	d Ale na ve 1 Cacua ec	d Ale na ve 2 Cacua ed	Ale na ve 2 Cacua ed
		Es ma ed numbe o	Equipmen Lmaxa 50											O sound eve a NR2a1	sound eve a NR1	sound eve a NR6 3780
Equ pmen	Ho sepowe	uni s	Fee dBA	Usage Fac o %	at 100 ee Leg dBA	at 500 ee Leq dBA	at 1000 ee LegdBA	at 1500 ee LegdBA	at 2500 ee Leg dBA	at 5000 ee Leg dBA	at NR1 3545 ee	at NR2 3787 ee	fee LegdBA	5400 ee LegdBA	19170 ee LegdBA 2	fee Leg dBA 2
Wire Trailer/Tensioner	1		1 8						3 4	4	2 4	4	3	7 4		30
Wire Puller	1		1 8		6 7				3 4	4	4	4		7 4		30
Crane - 200 Ton	2		1 8							3		-		8 3		
	3		4 7							3 3		3		3		21
Pickup - 1/2 Ton								4	9 4			4	3	9 3	40	25
Pickup - 1 Ton	4			5 40				4	8 4	3 3:		4	3	2 3		u 25
Welding Truck	3		2 7						4 3	3		3	2	8 3		E 21
Generator - 25 kW		36	2 8				51	5	2 4	4:		4	3	6 4		4 29
Crane - 35 Ton (Manlift)	2	50	2 8	1 16	6	7 5:	4:	4	4 3	3	3	3		8 3	2 3	21
Forklift - 10000 Reach	1		2 8				5			4		4		9 4	4	30
Forklift -15000 Pounds	1		1 8							7 4				8 4		4 20
Loader - 4-5 Yards		74	2 7					- 1		4 3		1		1	+	1 2
							5.					-	2	3 3	4	26
120-Foot Manlift		74	2 7	5 20			4	4	2 3	3		3	1 2	6 3	34	4 19
Combined					8	4 7	6	4 6	1 5	6 5	q 5:	5	4	8 5	4 57	3 39

1.5 Pose of Grid California, LLC
Collected By 500 200 WS dectation Pt
Collected By 500 200 WS dectation Pt

Collinsville Substation - Si	Site and ROW Restoration															
			FHWA RCNM Cons uc on										Al e na ve 1 Cacua ed	Al e na ve 1 Cacua ed	Ale na ve 2 Cacua ed	I Alena ve2Cacua
		Es ma ed numbe o													sound eve a NR1	
		uni s	Fee dBA			at 500 ee Leq dBA	at 1000 ee LegdBA	at 1500 ee LegdBA	at 2500 ee Leg dBA	at 5000 ee LegdBA					18870 ee LegdBA 2	fee LeqdBA 2
Pickup - 1 Ton	410		75	5 409		57	51	48	43	37	40				41	1
Motor Grader	250		88	5 409				55	50					44		
Backhoe - 2X4	68		78	409	71	57	51	48	43	37	40	40	32	37	41	1
Truck - Water 4000																
Gallons	300 74		72	2 409		51	45	42	37	31	34	34	26	31	35	5
Skid steer loader Excavator	250		/:	1 409				45	41							
D6 Type Dozer	250		81	2 409				46						3.	41	
Distripe Dozer Pickup - 1/2 Top	250		8.	2 409				42						38	7 41	
Truck - Dump 10-12	391	1	/:	409	/:	5/	51	48	42	3)	40	40	32	3.	41	
Yards 10-12	415		79	5 409	69	50	49	46	41	35	35	35	30	31	36	9
Combined	410	1	1 /	407	8	65	62	53	54	45	51	50	43	4	50	2
						-	-	-		-	-	-	-		-	
Collinsville Substation - S	Staging Yard Establishmen	t and Use														
			FHWA RCNM													
			Cons uc on								Ca cu a ed sound eve	Ca cu a ed sound eve	Al e na ve 1 Ca cu a ed	Al e na ve 1 Ca cu a ed	Ale na ve 2 Cacua ed	Ale na ve 2 Cacua
		Es ma ed numbe o													sound eve a NR1	
	Ho sepowe	uni s	Fee dBA	Usage Fac o %	at 100 ee Leg dBA	at 500 ee Leg dBA	at 1000 ee Leg dBA	at 1500 ce Leg dBA	at 2500 ee Leg dBA	at 5000 ee Leg dBA	dBA	dBA	fee LegdBA	4700 ee LegdBA	19170 ee LegdBA 2	fee LegdBA 2
Water Truck (4000 Gal																
300 HP)	300		72	2 409		45	42	35	34	28	33	32	25	25	33	3
Loader (4-5 Yd 74 HP)	230		75	9 409	69	55	49	46	41	35	40	38	32	36	40	D
Dump Truck (10-12 Yd 415 HP)	415			5 409												
415 HP) Motor Grader (250 HP)	415 250		A	5 409		5 52	46	42	32	7 41	AF	30	29	3.	3)	/
Motor Grader (250 HP) Scraper (410 HP)	250		8:	409			55	52	4/		45		38	4.	41	b .
aciapei (410 nr)	410			407	,		34	0,	40	40	40	**	37	4.	40	-
Vibratory Roller (157 HP)	157			200												
Pickup Truck (1/2-Ton	207			207			4,	-	J.		u.		50		,	-
	391		71	5 409	61	54	48	45	41	34	36	35	31	31	30	9
395 HP) Generator (36 HP)	395		2 7:	5 409 1 509		54	48	45	40	34	35 46	38	31	31	35	9
395 HP)			2 79			5 54 5 61	48	45 52	40	34 7 43	35	38	31 38	31	5 35 2 46	9
395 HP) Generator (36 HP)		:	2 7:		7!	3 54 5 61	48 55	45 55	40	34 7 43	35 46 45	38 45	31 38 41	3 4 4	5 35 2 46 5 45	9
395 HP) Generator (36 HP) Forklift (15000 Lb Reach	36	:	2 7: 2 8:	1 509	7!	3 54 5 63	48 55 58	45 52 56	40 41	34 7 41 1 44	35 46 45	38 45 46	31 38 41	31 42 41	5 35 2 46 5 45	9
395 HP) Generator (36 HP) Forklift (15000 Lb Reach 130 HP)	130		2 71	1 509	71 71 61	3 64	48 55 58	45 55 56 46	40 43 50	34 7 41 1 44	35 46 45	38 45 46 38	31 38 41	31 42 41	5 35 2 46 5 46	9 6 9
395 HP) Generator (36 HP) Forklift (15000 Lb Reach 130 HP)	130 410 410		2 71 2 8 2 8 2 77	1 509	71	3 64	48 55 58 48 49	46 52 56 46 46	46 43 50 44 43	34	35 46 45 36 47	46	31 38 41 31 32	31 44 43 33	3 35 2 46 5 46 5 36	9
395 HP) Generator (36 HP) Forklift (15000 Lb Reach 130 HP) Pickup Truck (1-Ton 410 HP)	130		2 7! 2 8: 2 84 2 7: 1 7: 2 7:	1 509 8 209 5 409	71 71 61 61	3 64 3 54 9 56	48 55 58 48 49 49	45 52 55 45 46 44	50	34	46 36 40	46	31 38 41 31 32 32	33 44 44 33 33	5 35 2 46 5 45 5 36 3 46 6 33	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
395 HP) Generator (36 HP) Forkilft (15000 Lb Reach 130 HP) Pickup Truck (1-Ton 410 HP) 844 Loader (417 HP) Semi-Truck (500 HP)1 Helicopter - Heavy Duty	130 410 410 500	3	2 7: 2 8: 2 8: 2 7: 4 7: 2 7:	1 509 8 209 5 409 9 409 4 409	71 71 61 62 65	3 64 3 54 9 56	48 55 58 48 49 47	45 55 56 45 44 44	50	34	46 36 40	46 38 30	31 38 41 31 32 30	31 44 41 33 33 3	5 35 2 45 5 45 5 36 6 44 4 38	9 6 9 9
395 HP) Generator (36 HP) Forkille (15000 Lb Reach 130 HP) Pickup Truck (1-Ton 410 HP) 844 Loader (417 HP) Semi-Truck (500 HP) 1 Helicopter – Heavy Duty (3200 HP)2	130 410 411 500	3	2 71 2 8 8 2 8 2 73 1 73 2 7-	1 509 8 209 5 409 9 409	71 71 61 62 65	3 64 3 54 9 56	48 55 58 48 49 47 77	45 55 56 46 46 44	50	34	46 36 40	46 38 30	31 38 41 31 32 30 60	31 44 44 33 33 36	36 36 36 36 36 36 36 36 36 36 36 36 36 3	9 5 9 9 0 8
395 HP) Generator (36 HP) Forklift (15000 Lb Reach 130 HP) Pickup Truck (1-Ton 410 HP) 844 Loader (417 HP) Semi-Truck (500 HP)1 Helicopter - Heavy Duty	130 410 410 500	3	2 71 2 81 2 88 2 77 1 77 2 7,	1 509 8 209 5 409 9 409 4 409	71 71 61 62 65	3 64 3 54 9 56	48 55 58 48 49 47 77	45 55 55 45 46 44 77	50	34	46 36 40	46 38 30	31 38 41 31 32 30 60	33 44 43 33 33 66	35 45 45 36 44 56 4 56 4 56 4 56 4	9 9 9 0 0 8

1.5 Power Grid California, LLC
Collegell E00/2014 Substantion Pt
4 Collegell E00/2014 Substantion Pt

PG&E IT Work at Collinsville	Subsubstation															
		Es ma ed numbe o	FHWA RCNM Cons uc on Equipmen Limax a 50		Ca cu a ed sound eve	Ca cu a ed sound eve	Ca cu a ed sound eve	Ca cu a ed sound eve	Ca cu a ed sound eve	Ca cu a ed sound eve	Ca cu a ed sound eve			Al e na ve 1 Ca cu a ed sound eve a NR2a1		
Equ pmen	Ho sepowe	uni s	fee dBA	Usage Fac o %	at 100 ee LeqdBA	at 500 ee Leg dBA	at 1000 ee LegdBA	at 2000 ee LeqdBA	at 2500 ee LeqdBA	at 5000 ee LeqdBA	dBA	dBA	fee LegdBA	5400 ee LeqdBA	19171 ee LeqdBA 2	fee LeqdBA
Pickup - 1/2 Ton	39	5	4 75	5 40%	66	5	1 45	39	37	3:	34	33	26	30	19	
Pickup - 1 Ton	41	0 2	2 75	5 40%	65	5	1 45	39	37	3:	34	33	26	30	19	
Crane - 35 Ton (Manlift)	25	0 :	1 8:	1 16%	67	5	3 47	41	36	33	36	36	28	32	21	3
Forklift - 15000 lb	13	0 2	2 88	B 20%	75	6	1 55	49	47	43	44	43	36	40	29	4
120'Manlift	7	4	1 75	5 20%		4	8 42	36	34	25	31	30	23	27	16	3
Truck - Water 4 K	30	0 :	1 72	2 40%	62	4	8 42	36	34	25	31	30	23	27	16	3
Excavator	10	8 :	1 8	1 40%	71	5	7 51	45	43	37	40	36	31	36	25	3
Excavator - Mini	7	0	2 8:	1 40%	71	. 5	7 51	45	40	37	40	35	31	36	25	3
Generator – 25 Kw	3	6	1 8:	1 50%	72	5	8 52	46	4	38	41	. 40	33	37	26	4
Truck - Concrete	42	5	4 79	9 40%	69	5	5 49	43	4:	3	38	37	30	34	23	3
Loader - 4-5 Yd	23	0	1 79	9 40%	69	5	5 49	43	4:	35	38	3	30	34	23	3
Pressure Digger - Lo-Dril	1															
(Tracked)	27	5	1 84	4 20%	71	. 5	7 51	45	43	33	40	38	32	36	26	i 4
Excavator	27	5	1 8:	1 40%	71		7 51	45	4	3	40	35	32	36	25	3
Truck - Dump 10-12 Yd	41	5	2 76	6 40%	66	5	2 46	40	38	3	35	3	27	31	21	
Skid steer loader	7	4	2 79	9 40%	65	5	5 49	43	4:	. 3!	38	3	30	34	23	3
Combined					81	. 6	7 61	55	5	4	50	51	42	47	36	
Federal Highway Admini	stration (FHWA), 2006, FH	WARoadway Construction	sound Model Version 1.0:	User's Guide, Final Report	DOT-VNTSC-FHWA-05-01	:FHWA-HEP-05-054, Pres	pared for U.S. Department of	f Transportation Federal H	ighway Administration Off	ce of Natural and Human	Invironment Washington D	C 20590, https://rosap.nt	.bts.gov/view/dot/8895	1	l —	1

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	An c pa ed Eng ne Ou pu ho sepowe		FHWA RCNM Cons uc on Equipmen Lmax a 50 Fee dBA	UsageFac o %	Ca cu a ed sound eve at 100 ee LeqdBA	Ca cu a ed sound eve at 500 ee LeqdBA	Cacua ed sound eve at 1000 ee LeqdBA	Ca cu a ed sound eve at 1500 ee LeqdBA	Ca cu a ed sound eve at 3000 ee LeqdBA	Ca cu a ed sound eve at 5000 ee LeqdBA	Ca cu a ed sound eve at NR1 2351 ee Leq	at NR2 1331 ee Leq				Al 2 Ca cu a ed sound leve a NR2a1 1240 fee LeqdBA
Pickup - 1/2 ton	39	5	2 75	409	6	5	48	45	36	3	4 43	46	3	0 3	3 2	3 4
Wire Trailer/Tensioner	17	5	1 85	5 509	7)	6	56	53	47	4	2 49	54	3	8 4	1 3	1 5
Wire Puller	17	5	1 85	5 509	7	6	56	53	47	4	2 49	54	3	8 4	1 3	1 5
Crane - 35 Ton (Manlift)	25)	2 8:	1 169	7	9	50	47	41		5 43	4	3	2 3	5 2	5 4
Pickup - 1 Ton	41	0	2 75	5 409	6	5	48	45	36	3	4 43	46	3	0 3	3 2	.3 4
Forklift - 15000 Reach	13		2 88	3 209	7	6	58	55	45	4	4 51	56	4	0 4	3 3	.3 5
Pressure Digger - Lo-Drill (Tracked)	27	5	1 84	4 209	7	. 5	51	48	40	3	7 4	45	3	3 3	6 2	A6 5
Truck - Dump 10-12																
Yards	41	5	2 76	5 409	6	9 5	49	46	40	3	5 42	43	3	1 3	4 2	34 4
Skid steer loader	7	4	2 79	9 409	7.	2 5	52	49	43	3	8 45	50	3	4 3	7 2	.7 5
Truck - Concrete	42	5	4 79	9 409	7	5 6	. 55	52	46	4	1 48	50	3	7 4	0 3	.0 5
Backhoe - 2X4	6	8	1 78	8 409	6	5	48	45	35	3	4 4:	46	3	0 3	3 2	.3 4
Combined					8	4 7	64	61	55	5	5	63	4	5 4	9 3	.9 6
																T
Federal Highway Adminis	stration (FHWA), 2006, FH	WA Roadway Constructio	n sound Model Version 1.0:	User's Guide, Final Report	DOT-VNTSC-FHWA-05-03	L: FHWA-HEP-05-054, Pres	ared for U.S. Department of	f Transportation Federal H	ighway Administration Off	ce of Natural and Human	Environment Washington D	C 20590, https://rosap.nt	.bts.gov/view/dot/8895.			1

Content 205 6 Garage Content 205

PG&E 500 kV Interconnection	- Structure Foundation Instal															
			FHWA RCNM								Proposed Pro est	Proposed Pro ert				
quipment Name	Ant c pated Engine Output (horsepower)	Es mated number of uni s		Usage Fac or (%	Calcula ed sound level a 1950 eet Leq dBA	Calcula ed sound level a 500 eet Leq dBA	Calcula ed sound level a 1000 eet Leq dBA	Calcula ed sound level a 1500 eet Leq dBA	Calcula ed sound level a 2500 eet Leq dBA	Calcula ed sound level a 5000 eet Leq dBA	Calcula ed sound Level a NR1, 4025 ee	Calcula ed sound Level a NR2, 4070 ee	Alt 1 Calcula ed sound Level a NR1, 9450 ee	Alt 1 Calcula ed sound Level a NR2a1, 10950 ee	Alt 2 Calcula ed sound Level a NR1, 19670 ee	Alt 2 Calcula ed sound Level a NR6, 1130 ee
ressure Digger - Lo-Drill	775		Fee dBA)	20%	45											
Tracked) Truck - Concrete 4	275	1	m	40%	49	57 61	51 55	47		37	39 43	39	31	30	25	50
Rickup - 1 Ton 4	410	4	75	40%	45	57	51	47	43	37	39	39	31	30	25	50
ruck - Water 4,000 Sallons	200	2	77	40%	39	51	45		27	31	22	22	26	24	10	44
ruck - Dump 10-12	500	-	*	40%			40	**	37	•	ω			24		
fards Skid steer loader	415	2	76 79	40%	43	55 55	49 49	45 45	41 41	35 35	37	37	29 29	28 28	23 23	48
	130	2	79 88	20%	52		49	45 54			46	46	38		32	48 57
Crane - 35 Ton (Manlift)		1	81	16%			47	43		33	35	35	27	26	21	46
	230	1	79	40%			49	45 43		35 33	37	37	29	28	23	48
	250	1	85	16% 40%	41 49		47 55	43 51		41	43	43	35	34	29	46 54
06 Type Dozer	250	1	82	40%	46	58	52	48	44	38	40	40	32	31	26	51
	250 125		81 80	40%			51 47	47			39	39	31	30 26	25	50 46
Abratory Roller Combined	125	1	80	20%	41 58	69	63	43 60		33 49	35 51	51	44	43	37	62
PG&E 500 kV Interconnection –																
Structure Installation:																
with helicopter			FHWA RCNM													
Equipmen Name	Anticipa ed Engine	Est mated number o un s		Usage Fac or (%	Calcula ed sound level a	Calcula ed sound level a	Calcula ed sound level a	Calcula ed sound level a	Calcula ed sound level a	Calcula ed sound level a	Proposed Pro ect Calcula ed sound Level a	Proposed Pro ect Calcula ed sound Level a	Alt 1 Calcula ed sound	Alt 1 Calcula ed sound Level a NR2a1, 10950 ee	Alt 2 Calcula ed sound	Alt 2 Calcula ed sound
			ree dBA)									NR2, 4070 ce		Series 0 NR241, 19357 66	CON. 4 NKI, 136/0 66	Ceres a Rico, 1120 60
Crane - 35 Ton (Manlift) 2 Helicopter - Heavy Duty 2		2		16%			50 78	46		36 64	38 66	38	30 58	29 57	24 52	49 77
et Fuel Truck	300	î	72	40%	36	48	42	38	34	28	30	30	22	21	16	41
	395	2	75		42	54	48	44			36	36	28	27	22	47
	130 410	2	88 75	20% 40%	49 42	61 54	55 48	51 44		41 34	43 36	43	35 28	34 27	29	54 47
Crane - 200 Ton	275	1	81	16%	41	53	47	43	39	33	35	35	27	26	21	46
	417	1	79	40%	43	55	49	45	41	35	37	37	29	28	23	48
fruck - Water 4,000 Sallons	300	2	72	40%	39	51	45	41	37	31	33	33	25	24	19	44
Combined		-			72	84	78	75	70	64	66	66	59	57	52	77
PG&E 500 KV																
Interconnection -																
Conductor Installation: with heliconter																
			FHWA RCNM													
	Anticipa ed Engine										Proposed Pro est	Proposed Pro ect				
	Ou ou ho sepower	Est mated number o un s	Cons ruc ion Eou omen Lmax at 50	Usage Fac or (%	Calcula ed sound level a 1950 eet Leo dBA	Calcula ed sound level a 500 eet Leo dBA	Calcula ed sound level a 1000 eet Leo dBA	Calcula ed sound level a 1500 eet Leo dBA	Calcula ed sound level a 2500 eet Leo dBA	Calcula ed sound level a 5000 eet Leo dBA	Proposed Pro ect Calcula ed sound Level a	Proposed Pro ect Calcula ed sound Level a	Alt 1 Calcula ed sound Level a NR1, 9450 ee	Alt 1 Calcula ed sound Level a NR2a1, 10950 ee	Alt 2 Calcula ed sound Level a NR1, 19670 ee	Alt 2 Calcula ed sound Level a NR6, 1130 ee
	Ou pu ho sepower	Est mated number o un s	Cons ruc ion Equ pmen Lmax at 50 Fee dBA)	Usage Fac or (%	Calcula ed sound level a 1950 eet Leq dBA	Calcula ed sound level a 500 eet Leq dBA	Calcula ed sound level a 1000 eet Leq dBA	Calcula ed sound level a 1500 eet Leq dBA	Calcula ed sound level a 2500 eet Leq dBA	Calcula ed sound level a 5000 eet Leq dBA	Proposed Pro ect Calcula ed sound Level a NR1, 4025 ee	Proposed Pro ect Calcula ed sound Level a NR2, 4070 ee	Alt 1 Calcula ed sound Level a NR1, 9450 ee	Alt 1 Calcula ed sound Level a NR2a1, 10950 ee	Alt 2 Calcula ed sound Level a NR1, 19670 ee	Alt 2 Calcula ed sound Level a NR6, 1130 ee
Helicopter – Light Duty	Ou pu ho sepower	Est mated number o un s	Cons ruc ion Equ pmen Lmax at 50 Fee dBA)	Usage Fac or (%	Calcula ed sound level a 1950 eet Leq dBA	Calcula ed sound level a 500 eet Leq dBA	Calcula ed sound level a 1000 eet Leq dBA 22	Calcula ed sound level a 1500 eet Leq dBA	Calcula ed sound level a 2500 eet Leq dBA	Calcula ed sound level a 5000 eet Leq dBA 58	Proposed Pro ect Calcula ed sound Level a NR1, 4025 ee	Proposed Pro ect Calcula ed sound Level a NR2, 4070 ee	Ait 1 Calcula ed sound Level a NR1, 9450 ce	Alt 1 Calcula ed sound Level a NR2a1, 10950 ee	Alt 2 Calcula ed sound Level a NR1, 19670 ee	Alt 2 Calcula ed sound Level a NR6, 1130 ee
Helicopter – Light Duty (700 HP)4 let Fuel Truck	700 300	Est mated number o un s	Fee dBA)	50% 40%	66 36	78 48	Calcula ed sound level a 1000 eet Leq dBA 72 52	68 38	64 34	58 28	60	Proposed Pro ect Calcula ed sound Level a NR2, 4070 ee 50	52 22	Alt 1 Calcula ed sound Level a NR2s1, 10950 ee 51	Alt 2 Calcula ed sound Level a NR1, 19670 ee 46	Alt 2 Calcula ed sound Level a NR6, 1130 ee 71
Helicopter – Light Duty (700 HP)4 let Fuel Truck Crane - 35 Ton (Manlift)	700	Est mated number o un s 1 1 6	Fee dBA)	50%	66	78	72	68	64 34	58	60	Proposed Pro ect Calcula ed sound Level a NR2, 4070 ee 60 30 43	52	Alt 1 Calcula ed sound Level a NR2s1, 10959 ee 51 21 34	Alt 2 Calcula ed sound Level a NR1, 19670 ee 46 16	Alt 2 Calcula ed sound Level a NR5, 1130 ee 71 41
Helicopter – Light Duty (700 HP)4 1 let Fuel Truck 2 Crane - 35 Ton (Manlit) 2 Pickup Truck (1-Ton, 410	700 300	Est mated number o un s 1 1 6	Fee dBA)	50% 40%	66 36	78 48	72	68 38	64 34	58 28	60	Proposed Pro ect Calcula ed sound Level a NR2, 4070 ee 60 30 43	52 22	Alt 1 Calcula ed sound Level a NR2s1, 1999 ee 51 21 34	Alt 2 Calcula ed sound Level a NR1, 19670 ee 46 16 29	Alt 2 Calcula ed sound Level a NR6, 1130 ee 71 41 54
Helicopter – Light Duty (700 HP)4 let Fuel Truck Crane - 35 Ton (Manlith) Pickup Truck (1-Ton, 410 HP)	700 300 250 395 410	1 1 6 4 4	Fee dBA) 101 72 81 75	50% 40% 16% 40%	66 36 49 45	78 48 61 57	72 42 55 51	68 38 51 47 47	64 34 47 43	58 28 41 37 37	60 30 43 39 39	60 30 43 39 39	52 22 35 31 31	51 21 34 30 30	46 16 29 25 25	71 41 54 50
Helicopter – Light Duby (700 HP)4 1 let Fuel Truck 2 Crane - 35 Ton (Manlith) 2 Rickup Truck (1-Ton, 410 HP) 1 HP) 1 Dezer (D8 Type, 200 HP) 2	700 300 250 395 410	1 1 6 4 4	Fee dBA) 101 72 81 75	50% 40% 16% 40%	66 36 49 45	78 48 61 57 57 63	72 42 55	68 38 51 47 47	64 34 47 43 43 49	58 28 41 37 37	60 30 43 39	Proposed Pre ect Calcula ed sound Level a NRZ, 4072 ee 60 30 43 39 39 45 60	52 22 35	51 21 34 30 30	Alt 2 Calcula ed sound Level a NR1, 19670 ee 46 16 29 25 25 31	Alt 2 Calcula ed sound Level a NR5, 1130 ee 71 41 54 50 50 50
Helicopter – Light Duty (700 HP)4 let Fuel Truck Crane - 35 Ton (Manlith) Plet Pruck (1-Ton, 410 HP) Plckup - 1 Ton Dozer (D8 Type, 200 HP) Combined	700 300 250 395 410	1 1 6 4 4	Fee dBA) 101 72 81 75	50% 40% 16% 40%	66 36 49 45	78 48 61 57 57 63	72 42 55 51 51 57	68 38 51 47 47 53	64 34 47 43 43 49	58 28 41 37 37 43	60 30 43 39 39 45	60 30 43 39 39	52 22 35 31 31 37	51 21 34 30 30 36	46 16 29 25 25 31	71 41 54 50 50 56
Helicopter - Light Duty 700 HPJ4 Let Fuel Truck Crane - 35 Ton (Manillt) Pickup Truck (1-Ton, 410 HP) Pickup - 1 Ton Dearer (D8 Type, 200 HP) Combined	700 300 250 395 410	1 1 6 4 4	Fee dBA) 101 72 81 75	50% 40% 16% 40%	66 36 49 45	78 48 61 57 57 63	72 42 55 51 51 57	68 38 51 47 47 53	64 34 47 43 43 49	58 28 41 37 37 43	60 30 43 39 39 45	60 30 43 39 39	52 22 35 31 31 37	51 21 34 30 30 36	46 16 29 25 25 31	71 41 54 50 50 56
Helicopter – Ught Duhy (700 HP)4 tet Fuel Truck (7700 HP)4 fet Fuel Truck (7700 - 35 700 (Manilit)) Fickup Truck (1-70n, 410 HP) Fickup - 17on Date (108 Type, 200 HP) Combined PG&E 500 W interconnection— Structure Installation:	700 300 250 395 410	1 1 6 4 4	Fee dBA) 101 72 81 75	50% 40% 16% 40%	66 36 49 45	78 48 61 57 57 63	72 42 55 51 51 57	68 38 51 47 47 53	64 34 47 43 43 49	58 28 41 37 37 43	60 30 43 39 39 45	60 30 43 39 39	52 22 35 31 31 37	51 21 34 30 30 36	46 16 29 25 25 31	71 41 54 50 50 56
Helicopter – Light Duhy 700 HPJ4 et Fuel Truck et Fuel Truck 700 HPJ4 -t Fuel Truck et Fuel Truck 700 HPJ4 -t Fuel Truck -t Fuel	700 300 226 395 410 200	1 1 6 4 4	Fee dBA) 101 72 81 75 75 82	50% 40% 16% 40%	66 36 49 45 45 51 66	78 48 61 57 57 57 63 78	72 42 55 51 51 57 72	68 38 51 47 47 53 69	64 34 47 43 43 49 64	58 28 41 37 37 43 58	60 30 43 39 39 45 60	60 30 43 39 39 45 60	52 22 35 31 31 37 53	51 21 34 30 30 36 51	46 16 29 25 25 31 46	71 41 54 50 50 56 71
Helicopter – Ught Duhy 700 HPJ4 et Fael Truck Drane - 35 Ton (Manist) - 4c kup Truck (1-Ton, 410 - 40) - 4c kup Truck (1-Ton, 410 - 40) - 4c kup - 1 Ton - 5c k	700 300 250 250 395 410 200	1 1 6 4 4 4 3	Fee dBA) 101 72 81 75 75 82 FHWA RCNM Code tusion	50% 40% 16% 40%	66 36 49 45 45 51 66	78 48 61 57 57 57 63 78	72 42 55 51 51 57 72	68 38 51 47 47 53 69	64 34 47 43 43 49 64	58 28 41 37 37 43 58	60 30 43 39 39 45 60	60 30 43 39 39 45 60	52 22 35 31 31 37 53	51 21 34 30 30 36 51	46 16 29 25 25 31 46	71 41 54 50 50 56 71
idelicopter – Light Duty 700 HP/4 FOR H	700 300 250 305 410 200 Anticipa ed Engine Ou pur he sepower	1 1 6 4 4 4 3 3 3 Est mided number o un s	Fée dBA) 101 72 51 75 75 75 62 FNWA RCAM Cons rucion Equ pme Ima at 50 Fee dBA)	50% 40% 10% 40% 40% 40% 40%	56 36 49 45 45 51 51 56 Calcula ed sound level a 1935 eet Leg dSA	78 48 61 57 57 63 78 Calcula ed sound level a 500 eet Leq @A	72 42 55 51 57 77 72 Calcula ed sound level a 1000 eet Leg dBA	58 38 51 47 47 53 69 Calcula of sound level a 1500 cet Leg dBA	64 34 47 43 43 49 64 Calcula ed sound level a 2000 eet Leq dBA	58 28 41 41 27 27 27 45 55 55 55 55 55 55 55 55 55 55 55 55	60 30 43 39 39 45 60 00 Proposed Pro ext Calcular of sound Level a	50 30 43 43 39 39 45 60 Proposed Pro ect Cilcula ed sound Level a NRZ, 407 e	52 22 35 31 31 37 53 53 Alt 1 Calcula ed sound Level a NRI, 9450 ee	51 21 34 35 30 30 35 51 Alt 1 Calcula ed sound Level a NR2st, 10958 ee	46 16 29 25 25 31 46	71 41 54 50 50 56 71
selicopter - Light Duty 700 HPH 700 HPH 710 HPH 7230 H S S Son (Maniit) 7230 H S S Son (Maniit) 7230 H S S S S S S S S S S S S S S S S S S	700 300 250 250 305 305 305 410 200 Anticipa ed Engine Op un to sepower 250	1 1 6 4 4 4 3 3 3 Est mided number o un s	Fée dBA) 101 72 81 75 75 92 PNWA RCMM Code rice lon Edu ymen Limas at 50 Fée dBA)	50% d0% d0% 10% 10% d0% d0% d0% d0% d0% d0% d0% d0% d0% d	56 35 49 45 45 51 51 56 66 Calcula ed sound level a 1955 eet Leg dBA 44 44 44 44 44 44 44 44 44 44 44 44 44	78 49 61 57 57 57 63 78 63 64 64 64 64 64 64 64 64 64 64 64 64 64	72 42 55 51 51 57 72 Calcula ed sound level a 1000 eet Leg dBA	568 383 51 47 47 47 53 69 Calcula ed sound level a 1500 eet Leq dBA 46	64 34 47 43 43 49 64 Calcula ed sound (evel a 2000 eet Leq dBA	50 28 41 37 37 37 43 58 58 58 59 59 64 Local sed sound level a 5000 eet. Leq dBA 36 56 59 59 64 Local sed sound level a 5000 eet. Leq dBA 36 56 59 64 Local sed sound level a 5000 eet. Leq dBA 56 56 59 64 Local sed sound level a 5000 eet. Leq dBA 56 56 59 64 Local sed sound level a 5000 eet. Leq dBA 56 56 59 64 Local sed sound level a 5000 eet. Leq dBA 56 56 59 64 Local sed sound level a 5000 eet. Leq dBA 56 56 59 64 Local sed sound level a 5000 eet. Leq dBA 56 56 56 64 Local sed sound level a 5000 eet. Leq dBA 56 56 64 Local sed sound level a 5000 eet. Leq dBA 56 56 64 Local sed sound level a 5000 eet. Leq dBA 56 56 64 Local sed sound level a 5000 eet. Leq dBA 56 56 64 Local sed sound level a 5000 eet. Leq dBA 56 56 64 Local sed sound level a 5000 eet. Leq dBA 56 56 64 Local sed sound level a 5000 eet. Leq dBA 56 56 64 Local sed sound level a 5000 eet. Leq dBA 56 56 64 Local sed sound level a 5000 eet. Leq dBA 56 64 64 64 64 64 64 64 64 64 64 64 64 64	50 30 43 39 39 45 60 Proposed Pro ext Calcula of sound Level a NR1, 1022 ex	60 30 41 30 30 30 45 60 Proposed Pro ext Calcula ed board Level a 162, 407; 4e	52 22 23 33 31 33 37 53 3 4 1 5 3 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	51 22 34 34 30 30 30 36 51 1 4 Calcula ed sound Level a NR2st, 1905 ee 29	46 16 29 25 25 31 46	71 41 54 50 50 56 71
selicopter – Light Duty 700 HPJ4 Frant Turk	700 300 250 305 410 200 Anticipa ed Engine Ou pur he sepower	1 1 6 4 4 4 3 3 3 Est mided number o un s	Fie dBA) 101 72 51 775 52 82 FAMILY A COMM COMM (04) 108 FOUR MARK AND A COMM COMM (04) 108 F	50% 40% 10% 40% 40% 40% 40%	56 36 49 49 46 45 55 56 56 56 56 56 56 56 56 56 56 56 56	78 461 61 57 57 63 63 78 63 64 64 65 65 65 65 65 65 65 65 65 65 65 65 65	72 42 55 51 57 77 72 Calcula ed sound level a 1000 eet Leg dBA	58 38 51 47 47 53 69 Calcula of sound level a 1500 cet Leg dBA	64 34 47 43 43 43 45 64 64 Calicula of sound level a 2000 cest Leg dBA	56 28 41 41 41 41 41 41 41 41 41 41 41 41 41	60 30 43 39 39 45 60 00 Proposed Pro ext Calcular of sound Level a	50 30 43 43 39 39 45 60 Proposed Pro ect Cilcula ed sound Level a NRZ, 407 e	52 22 35 31 31 37 53 53 Alt 1 Calcula ed sound Level a NRI, 9450 ee	51 21 34 35 30 30 35 51 Alt 1 Calcula ed sound Level a NR2st, 10958 ee	46 16 29 25 25 31 46	71 41 54 50 50 56 71
sellicopter – Light Duty 700 HPJ4 Frant Turk 720 HPJ4 Frant Turk 7	700 300 250 250 250 250 250 250 250 250 250 2	1 1 6 4 4 4 3 3 3 Est mided number o un s	Fie dBA) 101 72 51 775 52 82 FAMILY A COMM COMM (04) 108 FOUR MARK AND A COMM COMM (04) 108 F	50% 40% 10% 10% 40% 40% 40% 40% 10% 10% 10% 10% 10% 10% 10% 10% 10% 1	56 36 49 49 46 55 56 56 56 56 56 56 56 56 56 56 56 56	78 48 51 57 57 57 63 78 Calcula of sound level a 200 set Leq (80 A 48 54 54 55	72 42 55 55 51 51 57 77 72 Calcula ed sound level a 1000 eet Leg dBA 50 50 42 48	58 38 51 47 47 53 53 60 Calcula ed sound level a 1988 46 38 44 45 51	64 34 47 43 43 43 40 64 Calcute of sound level a 200 eet Lee Sta. 42 42 43 44 44 45 46 47	58 28 44 44 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	60 30 43 43 43 45 45 60 60 60 60 60 60 60 60 60 60 60 60 60	50 30 43 43 39 39 45 60 60 Proposed Pro set Calculus of sound Level a NR2, 4077 set	52 22 23 35 31 31 31 37 53 53 53 53 53 53 53 53 53 53 53 53 53	51 21 34 34 39 30 30 30 30 55 51 Alt 1 Calcula ed sound Level a NR2st, 1905 ee 20 20	46 15 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	71 41 54 50 50 56 71
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Relicopter - Light Dufy Ef Shell Truck Ef Shell Truck Ef Shell Truck Ef Shell Truck Experiment - 35 foot (Hamilt) Relicopt - 15 foot Relico	700 300 300 300 305 410 200 Anticipa ed Engine Cup un ho sepower 500 306 307 308 410 410 410 410 410	1 1 6 4 4 4 3 3 3 Est mided number o un s	Fee dBA) 101 102 22 61 61 62 62 62 64 64 66 66 67 67 67 67 67 67 68 67 75 68 67 75 68 68 75	50% 40% 50% 40% 10% 10% 10% 10% 10% 10% 10% 10% 10% 1	66 56 56 49 40 40 40 40 40 40 40 40 40 40 40 40 40	78 48 65 57 65 65 65 65 65 65 65 65 65 65 65 65 65	72 42 55 51 51 51 52 77 77 77 78 60 60 60 60 60 60 60 60 60 60 60 60 60	68 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	64 34 47 43 43 43 43 69 64 Calcotts of sound fewel a 2200 ees Leg dBA 42 42 44 42 44 45 46 65 66 67 68 68 68 68 68 68 68 68 68 68 68 68 68	56 28 41 37 37 37 45 65 66 Calcula of sound level a 5000 cest Leg dBA 36 36 36 37 38 38 39 30 30 31 31 31 31 31 32 32 33 34 35 36 36 36 36 36 36 36 36 36 36 36 36 36	60 20 30 43 30 30 30 30 30 30 30 30 30 30 30 30 30	60 30 43 39 39 39 45 60 Proposed Fre ext Calcula ad sound Level a NS2, 4973 se 30 50 56 43	52 22 23 35 31 31 31 32 37 55 57 56 50 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20	51 21 34 34 35 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	46 15 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	71 41 54 50 50 56 71
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sell copter – Light Duty 700 HP)4 Fruit Truck Fruit Fr	700 300 300 300 305 410 200 Anticipa ed Engine Cup un ho sepower 500 306 307 308 410 410 410 410 410	1 1 6 4 4 4 3 3 3 Est mided number o un s	Far (SA) 101 172 183 184 185 185 185 185 185 185 185	50% 40% 50% 40% 10% 10% 10% 10% 10% 10% 10% 10% 10% 1	66 56 56 49 40 40 40 40 40 40 40 40 40 40 40 40 40	78 48 65 57 65 65 65 65 65 65 65 65 65 65 65 65 65	72 42 55 51 51 51 52 77 77 77 78 60 60 60 60 60 60 60 60 60 60 60 60 60	68 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	64 34 47 43 43 43 43 69 64 Calcotts of sound fewel a 2200 ees Leg dBA 42 42 44 42 44 45 46 65 66 67 68 68 68 68 68 68 68 68 68 68 68 68 68	50 20 20 20 20 20 20 20 20 20 20 20 20 20	00 100 100 100 100 100 100 100 100 100	CO TO	52 22 23 35 31 31 31 32 37 55 57 56 50 27 27 20 20 20 20 20 20 20 20 20 20 20 20 20	51 21 34 34 35 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37	46 15 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	71 41 54 50 50 56 71
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encoger - ugit Duay Browner Inf and hose	700 200 200 200 200 200 200 200 200 200	Estanded number e un s 2 2 1 2 2 1 2 1 2 2 2 2 2	FRING ACCINE FRING ACCINE 79 79 79 70 10 10 10 10 10 10 10 10 10	SON	60 30 30 40 40 40 40 40 40 40 40 40 40 40 40 40	72	72	60 33 34 44 47 47 47 47 47 47 47 47 47 47 47 47	64 334 47 43 43 43 43 44 43 44 44 44 44 44 44 44	20 22 23 24 24 24 25 27 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	DO D	OD 30 A STATE OF THE STATE OF T	22 22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	51 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	60 19 20 20 20 20 20 20 20 20 20 20 20 20 20	71 45 55 55 55 55 55 55 55 55 55 55 55 55
160 color - Light Dury 160 color - Light Dury 161 color - Light Dury 162 color - Light Dury 163 color - Light Dury 164 color - Light Dury 164 color - Light Dury 165 color - Light Dury	700 500 500 500 500 500 500 500 500 500	Estanded number e un s 2 2 1 2 2 1 2 1 2 2 2 2 2	Far disk. Trains Acom Trains	DONN DONN DONN DONN DONN DONN DONN DONN	G. S.	72	72	60 33 34 44 47 47 47 47 47 47 47 47 47 47 47 47	64 334 47 43 43 43 43 44 43 44 44 44 44 44 44 44	20 20 20 20 20 20 20 20 20 20 20 20 20 2	CO SO	OD 30 A STATE OF THE STATE OF T	S 22 22 25 25 25 25 25 25 25 25 25 25 25	51 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	60 19 20 20 20 20 20 20 20 20 20 20 20 20 20	71 45 55 55 55 55 55 55 55 55 55 55 55 55
Indicators aging Duay Towards and State of State	700 200 200 200 200 200 200 200 200 200	Estanded number e un a 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Far disk. Trains Acom Trains	SON	60 30 30 40 40 40 40 40 40 40 40 40 40 40 40 40	72	72	60 33 34 44 47 47 47 47 47 47 47 47 47 47 47 47	64 34 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	20 20 20 20 20 20 20 20 20 20 20 20 20 2	00 30 44 50 50 50 50 50 50 50 50 50 50 50 50 50	OD 30 A STATE OF THE STATE OF T	22 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	51 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	60 19 20 20 20 20 20 20 20 20 20 20 20 20 20	71 45 55 55 55 55 55 55 55 55 55 55 55 55
encogon - sign Duy. **Enfant Data** **Infrant Data** **I	700 500 500 500 500 500 500 500 500 500	Est mated number e un s Est mated number e un s 2 2 2 2 3 2 2 3 4 6 6 6 6 6 6 6 6 6 6 6 6	Per disk 100 1	DONN DONN DONN DONN DONN DONN DONN DONN	G. S.	72	72 C-C C C C C C C C C C C C C C C C C C	60 30 30 41 41 41 41 41 41 41 41 41 41 41 41 41	66 33 34 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	20 20 20 20 20 20 20 20 20 20 20 20 20 2	CO SO	OD 30 A STATE OF THE STATE OF T	20 22 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	51 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	60 19 19 19 19 19 19 19 19 19 19 19 19 19	72 45 56 56 56 56 56 56 56 56 56 56 56 56 56
monoport vigit Dusy. The State III and the Stat	200 200 200 200 200 200 200 200 200 200	Est mated number e un s Est mated number e un s 2 2 2 2 3 2 2 3 4 6 6 6 6 6 6 6 6 6 6 6 6	Per disk 100 1	Strip	G. S.	72	72	60 33 34 44 47 47 47 47 47 47 47 47 47 47 47 47	66 33 34 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	20 20 20 20 20 20 20 20 20 20 20 20 20 2	DO D	OD 30 A STATE OF THE STATE OF T	22 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	51 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	60 19 19 19 19 19 19 19 19 19 19 19 19 19	71

1 Sewer disclosionates and Conference and Conferenc

LSPGC 230 kV Overhead	i Segment - Access Road (Construction																
			FHWARCNM Cons uc on								Proposed Pro ec	Proposed Pro ec Ca cu a ed sound eve						
		Es ma ed numbe o	Com uc on		Co an o adequate one	Co an o adequate one	Ca cu a ed sound eve	Co an o adequad on	Co au o adeaund our	Co an o adequate on	of NIRT ARMS on Low	or NRC 4 107 on Lea	At 1 Carr till 4650 on	At 1 Calculated Sound	large a NOT SEER on	At 2 Cal CO a 60 Sound	At 4 Carc ti al 60 Soons	At 4 Cal Cd at 60 Socies
Equipmen Name	Ho sepowe	uni s	Fee dBA	Usage Fac o %	at 100 ee LeadBA	at 500 ee LeadBA	at 1000 ee Leg dBA	at 1500 ee Leg dBA	at 2500 ee Leg dBA	at 5000 ee Leg dBA	dBA	dBA	(Leg dBA		(Leg dBA	(Leg dBA	(Leg dBA	(Leg dBA
Pickup - 1/2 ton		106	75	409		8 5	4 48	44	41	34	3	38	35	33	33	35	38	34
Pickup - 1 ton	- 4		75	409		8 5	4 48	44	4	34	3		35	33	33	35	38	34
Motor Grader	2	150 1	85	409	6 7	6 6	1 55	51	4.	41	4	43	45	40	41	40	43	41
Truck - Dump 10-12 Yands																		
Skid steer toader		74 7		409	6 6	9 5	5 45	45	4	38	3	37	38	34	3	34	37	35
Truck - Water 4000		/4		407		, ,	40	40				3/		34			3/	33
Gallens		100	7	409		5		41		91		39	95	90		9	99	31
D6 Type Dozer	2	150 :	8	401	6 7	2 5	8 50	- 46	4	5	3	40	30	37	3	33	40	38
Excavator		150	83	401	6 7	1 5	7 51	40	4.	3	3	30	36	36	3	36	39	37
Combined					8	0 6	6 60	56	5	46	4	47	46	45	4	44	48	46
Table 14 LSPCC 235 W Overhead	Commer Stouthern Co.	and Mine Install Mine																
COP OC 230 KV OVERINESS	Juginerii - Structure i oc	2 I GREAT I I GREAT OF	FHWA RCNM								Proposed Pro ec	Prooposed Pro ec						
			Cons uc on								Car is a set sound eve.	Carria edsound eve	All 1 Car III a ed seund	Al 1 Carria ediscond	At 2 Car is a ort sound	M 2 Carna adsound	All A Car is a ed second	Al A Carria edseund
		Es ma ed numbe o	Equipmen Lmax a 50		Ca cu a ed sound eve	Ca cu a ed sound eve	Ca cu a ed sound eve	Ca cu a ed sound eve	Ca cu a ed sound eve	Calcula ed sound eve	at NR1 4500 ee Leo	at NR2 4 107 ee Leg	leve a NR1 4600 ee	leve a NR2a1 5560	leve a NR1 5580 ee	leve a NRS 5700 ee	leve a NR1 3940 ee	leve a NRS 4990 ee
	Но ѕероже	uni s	Fee dBA	UsageFac o %	at 100 ee Leg dBA	at 500 ee Leg dBA	at 1000 ee Leq dBA	at 1500 ee Leq dBA	at 2500 ee Leg dBA	at 5000 ee Leg dBA	dBA	dBA	(Leq dBA		(Leq dBA	(Leg dBA		(Leg dBA
Pressure Digger - Lo-Dritt	iii.																	
(Tracked)	1		84	209	6 7	1 5	7 5:	47	4	37	3	30	37.5	36	3	36	39	37
Truck - Concrete Eckup. 1 Ton		125 4	75	401		5 6	1 55	51	4	41	4	43	41.5	40	- 4	44	43	41
Pickup - 1 Ton Truck - Water 4000	- 4	110 4	N 75	401	9 7	. 5	r 51	43	4	37	3	39	37.5	36	3	35	39	37
Truck - Water 4000 Gallons	1 .	100	-	409		5 6							31.5				**	
Truck - Dumo 10-12			- "	401			4:		,	3		33	31.5	35	,	, ,	33	31
Yards	4	115	2 76	401	ы е	9 5	5 40	45	4	35	3	37	35.5	34	3	3	37	35
Skid steer loader		74	2	401	6	9 5	5 41	45	4	35	3	37	35.5	34	3	3	37	35
Forkift - 10000 Reach		130	2 8	201	6 7		4 58	5	5	4	-	46	44.5	45	4	4	46	44
Crane - 35 Ton (Manüft)		250 :	8:			2 5	3 40	4	3	33	3	35	33.5	32	3	3	35	33
844 Loader		117	71	401	N 6	9 5	5 40	45	4	35	3	37	35.5	34	3	4 3	37	35
Rough Terrain Crane		185	8	1 161	6	9 5	3 4	4	3	3	3	4 35	33.5	32	3	3	35	33
Combined					8	2 6	8 6	51		41	4	50	48.5	4)	4	4.	50	40
		_																
Table 15																		
LSPGC 230 kV Overhead	d Segment - Structure Ins	tallation																
			FHWA RCNM								Proposed Pro ec	Prosposed Pro ec						
			Cons uc on								Cac u a ed sound eve	Ca cu a ed sound eve	Al 1Cac u a ed sound	Al 1Ca cu a edsound	Al 2 Cac u a ed sound	Al 2Ca cu a ed sound	At 4 Cac u a ed sound	Al 4Ca cu a ed sound
Equipmen Name		Es ma ed numbe o uni s	Equipmen Lmaxa 50		Ca cu a ed sound eve	Ca cu a ed sound eve	Ca cu a ed sound eve	Calcula edisound eve	Ca cu a ed sound eve			at NR2 4 107 ee Leq	leve a NR1 4650 ee	leve a NR2a1 5560	leve a NR1 5580 ee	teve a NRS 5700 ee	leve a NR1 3940 ce	leve a NRS 4550 ee
Crass 26 Ton (Manife)	no segone		Fee dBA	Usage Fac o %	at 100 ee LeqeBA	at 500 ee LeqdBA	at 1000 ee LeqdSA	at 1500 ee LeqdSA	at 2500 ee LeqdBA	Ca cu a ed sound eve at 5000 ee LeqdBA	dBA	dBA	(LeqdBA	fee LegdBA	(LeqdBA	(Leq dBA	(LeqdBA	[LeqdBA
Crane - 35 Ton (Manift) Pickup - 1/2 ton) 3	250	Fee 65A 2 8: 2 7:	Usage Fac o % 161	7	at 500 ee LeqdBA	at 1000 ee Leqd\$A 5 4 4	at 1500 ee LeqdSA 44	at 2500 ee LeqdBA	at 5000 ee LeqdBA	dBA 3	7 36 5 36	(LeqdBA 3: 3:	fee LeqeBA 35	(LeqdBA 3 3	(LeqdBA 5 3:	(LeqdBA 36 36	(LegdSA 38 34
Crane - 35 Ton (Mantift)	1			1 161	6 7 6 6	#1500 ee Leq#BA	#1000 ee Legd8A 6 56 4 40	at 1500 ee LeqdSA 44 45 55	at 2500 ee Legd\$A 4 4 4	at 5000 ee LeqdBA	dPA 3	7 38 5 36	31	fee LegeBA 35 35 46	3	5 35 9 35	38	(LeqdBA 38 34 41
Crane - 35Ton (Manift) Pickup - 1/2 ton Forklift - 15000 Pounds Pickup - 1 Ton	3	250 206 230 130	2 8:	1 161 5 401 8 201	6 7 6 6	6 5 8 5	at 1000 ee LegdSA 5 4 4 1 5 4 4 4 4	at 1500 ee LegdSA 49 44 55 54	at 2500 ee LeqdSA 4 4 4 4 4 4 4 4 4	at5000 ee LeqdBA 31 32 34 44 45	3	7 36 5 36	31	35	3 3	5 3: 3 3: 0 4:	38	38 36 34 41 34
Crane - 35Ton (Manift) Pickup - 1/2 ton Forkift - 15000 Pounds Pickup - 1 Ton Crane - 200 Ton	3	550 595 530 610 275	8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 169 401 6 201 6 401 1 161	6 2 6 6 7	6 5 8 5 6 6 8 5 9 5	at 1000 ee LegdSA 50 4 4 40 1 50 4 40 3 40	# 1500 ee Legd\$A 49 44 44 44 44 44 44 44 44 44 44 44 44	at 2500 ee LeqdSA 4 4 4 4 4 4 3 3	#15000 ee LeqdSA 31 3 3 4 4 3 3 3 3	3	7 36 5 36 2 45	31	35 32 40	3 3	5 3: 3 3: 0 4:	38	38 34 41 34 33
Crane - 35Ton (Manift) Pickup - 1/2 ton Forkift - 15000 Pounds Pickup - 1 Ton Crane - 200 Ton 844 Loader	3	250 206 230 130	2 8: 2 7: 1 8: 2 7:	1 169 401 6 201 6 401 1 161	6 2 6 6 7	6 5 8 5	# 1000 ee Legd&A 51 44 45 44 44 45 44 44 44 44	# 1500 ee legd\$A 44 5: 44 44 44 44 44 44 44 44 44 44 44 44 44	## 2500 ee LegdSA	at5000 ee LeqdSA 3 3 4 7 4: 8 3 8 3:	3	7 36 5 36 2 45	31	35 32 40	3 3	5 3: 3 3: 0 4:	38	(Leq dBA 36 36 41 41 34 35 35 35
Crane - 35Ton (Manift). Pickup - 1/2 ton Forklift - 15000 Pounds Pickup - 1 Ton Crane - 200 Ton 844 Loader Truck - Water 4000	3	150 195 130 110 275 117	8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 169 401 6 201 6 401 1 161	6 2 6 6 7	6 5 8 5 6 6 8 5 9 5	at 1000 ee LegdSA 51 51 4 4 4 4 4 4 4 5 5 5 4 4 5 5 6 4 5 6 6 6 6	at 1500 ee LegdSA 44 45 5: 44 44	at 2500 ee Legd2A 4 4 4 4 4 4 4 4 4 4 4 4	at 5000 ee LeqdSA 3 3 3 3 3 3 4 4 5 5 5 5 5 5 5 5 5 5 5 5	3	7 36 5 36 2 45	31	35 32 40	3 3	5 3: 3 3: 0 4:	38	(Leg dBA 36) 340 411 343 333 35
Crane - 35Ton (Manift) Pickup- 1/2 ton Forklift - 15000 Pounds Pickup- 1Ton Crane - 200 Ton 844 Loader Tusk- Water 4000 Gallons	3	550 595 530 610 275	8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 169 401 6 201 6 401 1 161	6 2 6 6 7	6 5 8 5 6 6 8 5 9 5	at 1000 ee LegdSA 51 51 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	at 1500 ee LegdSA 41 44 55 44 44 44 44	## 2500 se Legd## 4 4 4 4 4 4 5 5 4 4 4 4 4 5 5 4 1	at 5000 ee LegdSA 31 3	3	7 36 5 36 2 45	31	35 32 40	3 3	5 3: 3 3: 0 4:	38	(Esq d3A 36 34 41 41 33 33 35
Crane - 35Ton (Manift). Pickup - 1/2 ton Forklift - 15000 Pounds Pickup - 1 Ton Crane - 200 Ton 844 Loader Truck - Water 4000	3	150 195 130 110 275 117	8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 169 401 6 201 6 401 1 161	6 2 6 6 7	6 5 8 5 6 6 8 5 9 5	# 1000 ee Legd3A 51 54 54 54 55 55 55 56 56	at 1500 ee LegdSA 44 44 45 55 44 44 45 55 55	## 2500 ee Legd3A	at 5000 ee LegdSA 31 3 3 4 3 3 4 4 3 3 3 4 4 3 4 4 4 4 4	3	7 36 5 36 2 45	31	35 32 40	3 3	5 3: 3 3: 0 4:	38	(Leg d5A 36 34 41 34 33 35 35 35
Crane - 35Ton (Manift) Pickup- 1/2 ton Forklift - 15000 Pounds Pickup- 1Ton Crane - 200 Ton 844 Loader Tusk- Water 4000 Gallons	3	150 195 130 110 275 117	8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 169 401 6 201 6 401 1 161	6 2 6 6 7	6 5 8 5 6 6 8 5 9 5	## 1000 ee Legd3A 51 54 54 54 54 54 54 54	#1500 ee Legds# 41 #4 #4 #4 #4 #4 #4 #4 #4 #4	#1200 ee Legd#A 4 4 4 4 4 4 4 4 4 4 4 5 3 3 5 5 5	#15000 ee Legd\$A 2	3	7 36 5 36 2 45	31	35 32 40	3 3	5 3: 3 3: 0 4:	38	189 d34 386 344 345 347
Crans - 35 Ton (Marrist) Pickup- 1/2 ten Fortsitt - 15000 Pounds Pickup- 1 Ten Crans- 200 Ton 844Loader Truck- Water 4000 Gattons Coentined	5 5 4 4 5	150 195 130 110 275 117	8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 169 401 6 201 6 401 1 161	6 2 6 6 7	6 5 8 5 6 6 8 5 9 5	#1000 ee Legds#. 4 44 11 554 4 4 44 55 44 51 44 51 55 5 5	#1500 ee Legds# 44	### ### ### ### ### ### ### ### ### ##	at5000 ee Legd8A 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3	7 36 5 36 2 45	31	35 32 40	3 3	5 3: 3 3: 0 4:	38	Leg d&A
Crans - 35 Ton (Marrist) Pickup- 1/2 ten Fortsitt - 15000 Pounds Pickup- 1 Ten Crans- 200 Ton 844Loader Truck- Water 4000 Gattons Coentined	5 5 4 4 5	990 2006 3300 1310 1310 1310 1310 1310 1310 1	2 8: 8: 7: 18: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8	1 169 401 6 201 6 401 1 161	6 2 6 6 7	6 5 8 5 6 6 8 5 9 5	at 1000 ee Legdsh 55	#1500 ee Legds# 44 44 44 44 44 44 44 45 45 45	#1500 es Legd#A 4 4 4 4 4 4 4 5 4 5 4 5 5	2 31 2 3-5 2 44 3 3 3 33 1 33 2 34 2 34 4 4	3 3 4 4 3 3 3 3 3 4 4 4	7 38 58 58 2 44 45 5 5 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 6 7	3: 3: 4: 3: 3: 3: 3: 4: 4:	35 35 44 33 35 34 34 44	3 4 3 3 3 3 3 4 4	5 31 3 32 3 44 3 33 2 2 33 4 34 4 44	3 8 3 4 4 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	34 34 41 34 35 55 35 44
Crans - 35 Ton (Marrist) Pickup- 1/2 ten Fortsitt - 15000 Pounds Pickup- 1 Ten Crans- 200 Ton 844Loader Truck- Water 4000 Gattons Coentined	5 5 4 4 5	550 3 909 550 6 110 7779 1117 1117 1117 1117 1117 1117 1	2 8: 77 1 8: 77 2 7: 8: 77 2 7: 8: 77 2 7: 8: 77 2 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 289 401 201 201 201 201 201 201 201 201 201 2	7 7 6 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	5 5 5 5 5 6 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 4 5:5 4 4:4 4:4 5:5	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 44 45 35 35 34 34 44 44 143 35 35 34 44	3 3 4 3 3 3 3 3 4 4 A 2 Cacua and answer	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 4 4 4 3 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 42 42 43 44 42 44 44 44 44 44 44 44 44 44 44 44	34 34 44 44 44 44 44 44 44 44 44 44 44 4
Crans - 35 Ton (Markin) Pickags - 12 Sen Forkint - 15000 Pounds Pickags - 150 Crans - 200 Ton 844 Loader Truck - Water 4500 Galloos Contished Table 16 LSPCC 230M/Overhead	j 2 3 1 4 2 4 4 5	556 2 3092 330 331 331 331 331 331 331 331 331 331	2 8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 289 401 201 201 201 201 201 201 201 201 201 2	7 7 6 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	5 5 5 5 5 6 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 44 5: 44 44 44 5:	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 44 45 35 35 34 34 44 44 143 35 35 34 44	3 3 4 3 3 3 3 3 4 4 A 2 Cacua ad second	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 4 4 4 3 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 42 42 43 44 42 44 44 44 44 44 44 44 44 44 44 44	34 34 44 44 44 44 44 44 44 44 44 44 44 4
Crans - 35 Ton (Hamift) Pickags - 12 sen Forkitt - 15000 Pounds Pickags - 1 Sen Crans - 200 Ton 844 Loader Trit Lo	3 3 3 4 4 4 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6	550 3 909 550 6 110 7779 1117 1117 1117 1117 1117 1117 1	2 8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 288 200 200 200 200 200 200 200 200 200	7 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5 5 5 5 5 6 6	at 1000 ee Legd84 4 4 5 4 4 4 5 4 4 5 4 5 4 5 5	44 44 5: 44 44 44 5:	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 34 44 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua ad second	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 4 4 4 3 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 42 43 44 42 44 44 44 44 44 44 44 44 44 44 44	34 34 44 44 44 44 44 44 44 44 44 44 44 4
Crana - 35 Ton (Markit) Fickup - 12 For (Markit) For (Mark - 15000 Pounds Fickup - 15 For Crana - 200 Ton Extra - 200 Ton S44 Loader Truck - Water 4500 Gallons Ceretained Table 18 LSPGC 229 NV Overhead Equipmen Name Helicopter - Light Duty Mat Feet Truck Markit - Light Duty Mat Feet Truck	4 4 5 Segment - Conductor in	556 2 3092 330 331 331 331 331 331 331 331 331 331	2 8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 289 401 201 201 201 201 201 201 201 201 201 2	Ca cu a ed sound eve	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 44 5: 44 44 44 5:	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 34 44 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua ad second	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 4 4 4 3 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 42 43 44 42 44 44 44 44 44 44 44 44 44 44 44	34 34 44 44 44 44 44 44 44 44 44 44 44 4
Crain - 35 foo (Maritit) Fickup - 122 and Foodin - 15000 Pounds Foodin - 15000 Pounds Foodin - 15000 Pounds Crain - 260 fon Ball - 15000 Pounds Flourit - 15000 fon Ball - 15000	d Sugment - Conductor in	554 555 555 555 555 555 555 555 555 555	2 8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 1 269 1 200 1 20	Ca cu a ed sound eve	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 44 5: 44 44 44 5:	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 34 44 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua ad second	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 4 4 4 3 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	34 34 44 44 44 44 44 44 44 44 44 44 44 4
Crain - 35 for (Muritit) Fickup - 1/2 au Fordin - 10000 Pounds Fordin - 10000 Pounds Fordin - 10000 Pounds Fickup - 1 for Crain - 200 for 344 Loader Truck - Water 4000 Calations Centricised Table 16 LSPGC 2001V Overhead 400 prints Name 4	Sogment - Conductor in	559 559 559 550 550 550 550 550 550 550	2 8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 189 189 189 189 189 189 189 189 189 18	Ca cu a ed sound eve at 100 ee Leq dBA	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 4 5:5 4 4:4 4:4 5:5	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 34 44 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua ad second	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 4 4 4 3 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	366 341 341 343 33 35 441 444 444 444 444 444 444 444 444 44
Crain - 35 for (Marith) Forum - 15000 Phands Forum - 1500 Forum Forum - 1500 Forum Forum - 1500 Forum Forum - 1500 Forum Forum Forum - 1500 Forum Forum Forum - 1500 Forum Forum Forum - 1500 Forum Forum Forum - 1500 Forum	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	559 559 559 559 559 559 559 559 559 559	2 8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 189 189 189 189 189 189 189 189 189 18	Ca cu a ed sound eve at 100 ee Leq dBA	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 4 5:5 4 4:4 4:4 5:5	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 34 44 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua ad second	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 4 4 4 3 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	34 34 44 44 44 44 44 44 44 44 44 44 44 4
Crain - 35 foo (Murilli) Pickup - 12 foo Pickup - 12 foo Footst - 15000 Pounds Pickup - 11 foo Crain - 200 foo Set Loaded Flock - Wader 400 Continued Table 18 LSPGC 2354V Overhood LSPGC 2354V Overhood Set Foot Too Set Foot Set Foot Foot Set Foot Set Foot Foot Set Foot Foot Set Foot Foot Set Foot Foot Set Foot Foot Set Set Set Set Set Set Set Se	d Segment - Conductor in	SSS	2 8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 189 189 189 189 189 189 189 189 189 18	Ca cu a ed sound eve at 100 ee Leq dBA	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 4 5:5 4 4:4 4:4 5:5	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 34 44 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua ad second	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 3 4 4 4 3 5 3 5 4 4 4 3 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	366 341 343 333 35 35 444 464 474 474 474 474 474 474 474 474
Czara - 25 for (Maritti) Fickup- 1/2 for In- Frankin - 10000 Founds Frankin - 10000 Founds Frankin - 10000 Founds Mariands Marian	d Segment - Conductor in	559 559 559 550 550 550 550 550 550 550	2 8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 189 189 189 189 189 189 189 189 189 18	Ca cu a ed sound eve at 100 ee Leq dBA	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 44 5: 44 44 44 5:	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 34 44 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua ad second	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 3 4 4 4 3 5 3 5 4 4 4 3 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 42 43 44 42 44 44 44 44 44 44 44 44 44 44 44	34 34 44 44 44 44 44 44 44 44 44 44 44 4
Crain - 35 foo (Muritit) Pricipe - 12 foo Pricipe - 12 foo Footin - 15000 Pounds Pricipe - 18 foo Crain - 200 foo SM4 Loaded Footin - 200 foo SM4 Loaded Command Takes 16 LSPGC 2304V Charlest CSPGC 2304V Charle	d Segment - Conductor in	SSS	2 8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 189 189 189 189 189 189 189 189 189 18	Ca cu a ed sound eve at 100 ee Leq dBA	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 44 5: 44 44 44 5:	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 34 44 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua ad second	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 3 4 4 4 3 5 3 5 4 4 4 3 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 42 43 44 42 44 44 44 44 44 44 44 44 44 44 44	366 341 343 333 35 35 444 464 474 474 474 474 474 474 474 474
Crain - 35 foo (Murilli) Fickup - 1/2 foo Frontin - 10000 Founds Frontin - 100000 Founds Frontin - 10000 Founds Fr	Segress - Conductor in Mo sepowe	SSS	2 8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 189 189 189 189 189 189 189 189 189 18	Ca cu a ed sound eve at 100 ee Leq dBA	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 44 5: 44 44 44 5:	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 34 44 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua ad second	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 3 4 4 4 3 5 3 5 4 4 4 3 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 42 42 43 44 42 44 44 44 44 44 44 44 44 44 44 44	366 341 343 333 35 35 444 464 474 474 474 474 474 474 474 474
Crain - 35 foo (Muritit) Pricipe - 12 foo Pricipe - 12 foo Footin - 15000 Pounds Pricipe - 18 foo Crain - 200 foo SM4 Loaded Footin - 200 foo SM4 Loaded Command Takes 16 LSPGC 2304V Charlest CSPGC 2304V Charle	Segress - Conductor in Mo sepowe	599 599 599 599 599 599 599 599 599 599	2 8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 189 189 189 189 189 189 189 189 189 18	Ca cu a ed sound eve at 100 ee Leq dBA	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 4 5:5 4 4:4 4:4 5:5	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 34 44 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua ad second	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 4 4 4 3 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 42 42 43 44 42 44 44 44 44 44 44 44 44 44 44 44	366 341 341 343 33 35 441 444 444 444 444 444 444 444 444 44
Crain - 35 foo (Murilla) Früssp - 172 sin Früssp - 172 sin Früssp - 172 sin Früssp - 170 sin Früssp - 170 sin Früssp - 170 sin Murilla - 1	Segress - Conductor in Mo sepowe	599 599 599 599 599 599 599 599 599 599	2 8: 8: 7: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8: 8:	1 189 189 189 189 189 189 189 189 189 18	Ca cu a ed sound eve at 100 ee Leq dBA	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 4 5:5 4 4:4 4:4 5:5	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 34 44 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua and answer	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 4 4 4 3 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 42 42 43 44 42 44 44 44 44 44 44 44 44 44 44 44	366 341 341 343 33 35 441 444 444 444 444 444 444 444 444 44
Crain - 35 You (Murrish) Pricing - 127 aim Franch - 13000 Pounds Franch - 13000 Pounds Franch - 13000 Pounds Grain	3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	595 596 597 597 597 597 597 597 597 597 597 597	8	1 189 189 189 189 189 189 189 189 189 18	Ca cu a ed sound eve at 100 ee Leq dBA	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 4 5:5 4 4:4 4:4 5:5	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 4 3 3 3 3 3 3 4 Proposed Pro ec	7	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 34 44 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua and answer	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 4 4 4 3 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 42 43 44 42 44 44 44 44 44 44 44 44 44 44 44	366 341 341 343 33 35 441 444 444 444 444 444 444 444 444 44
Crain - 35 You (Murrish) Pricing - 127 am Franch - 13000 Pounds Franch - 13000 Pounds Franch - 13000 Pounds Grain	3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	599 599 599 599 599 599 599 599 599 599	6: 6: 7: 7: 7: 7: 7: 7: 7: 7: 7: 7: 7: 7: 7:	1 189 189 189 189 189 189 189 189 189 18	Ca cu a ed sound eve at 100 ee Leq dBA	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 4 5:5 4 4:4 4:4 5:5	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Proposed Proce. Cele 14 et 1921 et 192	314 324 324 324 324 324 324 324 324 324 32	3: 3: 4: 4: 3: 3: 3: 3: 3: 3: 3: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	35 35 44 45 35 34 34 34 34 34 34 34 34 34 34 34 34 34	3 3 4 3 3 3 3 3 4 4 A 2 Cacua and answer	3 33 33 33 34 44 35 35 36 35 36 35 4 4 4 3 5 3 3 3 4 4 4 3 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 8 42 42 43 44 42 44 44 44 44 44 44 44 44 44 44 44	366 341 341 343 33 35 441 444 444 444 444 444 444 444 444 44
Crain - 35 You (Murrish) Pricing - 127 am Franch - 13000 Pounds Franch - 13000 Pounds Franch - 13000 Pounds Grain	3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	595 596 597 597 597 597 597 597 597 597 597 597	10 Comp. 10 Com	1 189 189 189 189 189 189 189 189 189 18	Ca cu a ed sound eve at 100 ee Leq dBA	5 5 5 5 5 6	6 55 44 44 44 45 45 45 45 45 45 45 45 45	44 4 5:5 4 4:4 4:4 5:5	4 4 4 4 4 4 3 3 3 5 4 4 5 5	2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	201 324 324 324 324 324 324 324 324 324 324	3: 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	Al 1 Ca cu a essumi fee a minimum of the control o	3 3 4 4 3 3 3 3 4 4 4 4 4 5 4 5 4 5 4 5	Al Z Ca cu a estoues Al Z Ca cu a estoues Al Z Ca cu a estoues Cu a Not Stole estoues Al Z Ca cu a estoues Al Z Ca	31 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	At 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a NR 4 Ca cu a ed sound (see a cu a cu a ed sound (see a cu a
Crain - 35 You (Murrish) Pricing - 127 am Franch - 13000 Pounds Franch - 13000 Pounds Franch - 13000 Pounds Grain	3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	599 590 590 590 590 590 590 590 590 590	81	1 189 189 189 189 189 189 189 189 189 18	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 5 6 6 6 6 6 6 6 6	CANA SESSION OF SESSIO	4 4 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	23 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Proposed Pro sec of the Control of t	31 32 32 33 33 34 34 35 35 35 35	ALACHE A RESIDENCE AND A RESID	31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	31	30 30 30 30 30 30 30 30 30 30 30 30 30 3
Cozer. 35 You (Marcilla) Priction. 1972 Jan. Priction. 2 Silver Priction. 3 Silver Pr	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	509 509 509 509 509 509 509 509 509 509	20	321 322 323 324	Carca editored on addition of the carca and to the carca	Ca ca ed sond ow dispose a Leu da A	51 52 64 64 64 64 64 64 64 6	41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Proposed Prise Cells 4 and 4 a	31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	ALACHE A RESIDENCE AND A RESID	315 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	31	3 4 4 2 co e estoudin 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Cozer. 35 You (Murella) Pricting. 12 Year Pricting. 12 Year Pricting. 12 Year Pricting. 12 Year Pricting. 2	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	500 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20	1 189 189 189 189 189 189 189 189 189 18	Carca editored on addition of the carca and to the carca	Ca ca ed sond ow dispose a Leu da A	CANA SESSION OF SESSIO	41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Proposed Prise Cells 4 and 4 a	31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	315 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 4 4 3 2 4 4 4 3 2 4 4 4 4 2 2 4 5 4 6 4 6 4 4 4 4 4 4 2 4 4 4 4 4 4 4 4 4	31 3 3 4 3 4 4 4 4 4 4 5 5 6 4 4 4 4 4 5 5 6 4 4 4 4	31	35
Conce 31 for Places I; Conce 32 for Places I; Conce 33 for Places I;	15 Appear Conductor to Suppose	200 200 200 200 200 200 200 200 200 200	20	120 120	Ca ca estioned we still see a factor of the see at the	Ca ca ed sond ow dispose a Leu da A	51 52 64 64 64 64 64 64 64 6	41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Proposed Prise Cells 4 and 4 a	31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	315 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 4 4 3 2 4 4 4 3 2 4 4 4 4 2 2 4 5 4 6 4 6 4 4 4 4 4 4 2 4 4 4 4 4 4 4 4 4	31 3 3 4 3 4 4 4 4 4 4 5 5 6 4 4 4 4 4 5 5 6 4 4 4 4	31	35
Care 3 to or Hards; Charles 2 the Care 1 to or	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	200 200 200 200 200 200 200 200 200 200	E STATE OF S	Date Free % 42 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Cacca addoord on addo see Augilla.	Carca edisonid own	51 52 64 64 64 64 64 64 64 6	41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Proposed Prise Cells 4 and 4 a	31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	315 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 4 4 3 2 4 4 4 3 2 4 4 4 4 2 2 4 5 4 6 4 6 4 4 4 4 4 4 2 4 4 4 4 4 4 4 4 4	31 3 3 4 3 4 4 4 4 4 4 5 5 6 4 4 4 4 4 5 5 6 4 4 4 4	31	30
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Course 35 for Pleases, Profession Pleases, Profession Pleases, Profession Pleases, Pleases 20 for Pleases 20 fo	To Aspone	St. ma or framible and st. mar. St. ma. or framible and st. mar. St. ma. or framible and st. ma. or fr	E STATE OF S	Date Free % 42 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Casa a disonif on all of the case of the c	Carca edisonid own	51 52 64 64 64 64 64 64 64 6	41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Proposed Prise Cells 4 and 4 a	31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	315 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 4 4 3 2 4 4 4 2 2 4 5 4 5 4 6 4 4 4 4 2 2 4 5 4 6 4 6 4 4 4 4 2 2 4 5 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6	31 3 3 4 3 4 4 4 4 4 4 5 5 6 4 4 4 4 4 5 5 6 4 4 4 4	31	35
Course 28 for Places 17 Charles 27 for 18 Charles 28 for 18 Charles	To Aspone	20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	E STATE OF S	120 120	Casa a disonif on all of the case of the c	Carca edisonid own	51 52 64 64 64 64 64 64 64 6	41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Proposed Prise Cells 4 and 4 a	31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	315 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 4 4 3 2 4 4 4 2 2 4 5 4 5 4 6 4 4 4 4 2 2 4 5 4 6 4 6 4 4 4 4 2 2 4 5 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6	31	31	35
Course 35 for (March) Course 35 for (March) Fricker 37 for (March 37 for March 37	16 Segment - Conductor In	St. ma or framible and st. mar. St. ma. or framible and st. mar. St. ma. or framible and st. ma. or fr	E STATE OF S	120 120	Casa a disonif on all of the case of the c	Carca edisonid own	51 52 64 64 64 64 64 64 64 6	41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Proposed Prise Cells 4 and 4 a	31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	315 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 4 4 3 2 4 4 4 2 2 4 5 4 5 4 6 4 4 4 4 2 2 4 5 4 6 4 6 4 4 4 4 2 2 4 5 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6	31	31	35
Care, 3 to m Harati, Ton Marchan, Care Care, 2 to m Harati, Care Care, 2 to Marchan, Care, 2 to	To spower Conductor in Supress	20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	E STATE OF S	### ##################################	Caco a of condition of the caco and condition of the caco and condition of the caco and caco	Carca edisonid own	51 52 64 64 64 64 64 64 64 6	41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Proposed Prise Cells 4 and 4 a	31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	315 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 4 4 3 2 4 4 4 2 2 4 5 4 5 4 6 4 4 4 4 2 2 4 5 4 6 4 6 4 4 4 4 2 2 4 5 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6	31	31	35
Cours 31 for Musel, Price 1 for Musel 1 fo	To spower Conductor in Supress	Same and familiar and search as a search a	### 100 10	### ##################################	Caco a of condition of the caco and condition of the caco and condition of the caco and caco	Carca edisonid own	51 52 64 64 64 64 64 64 64 6	41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Proposed Prise Cells 4 and 4 a	31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	315 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 4 4 3 2 4 4 4 2 2 4 5 4 5 4 6 4 4 4 4 2 2 4 5 4 6 4 6 4 4 4 4 2 2 4 5 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6	31	31	30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Cons. 35 to March 1 Cons.	To spower Conductor in Supress	Same and familiar and search as a search a	### 100 10	### ##################################	Caco a of condition of the caco and condition of the caco and condition of the caco and caco	Carca edisonid own	51 52 64 64 64 64 64 64 64 6	41 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		31 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Proposed Prise Cells 4 and 4 a	31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	315 31 32 32 32 32 32 32 32 32 32 32 32 32 32	3 3 4 4 3 2 4 4 4 2 2 4 5 4 5 4 6 4 4 4 4 2 2 4 5 4 6 4 6 4 4 4 4 2 2 4 5 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6	31	31	30 4 4 4 4 4 4 5 4 1 1 1 1 1 1 1 1 1 1 1 1

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LSPGC 230 kV Submarine	Segment - Northern Trans	sition Approach Construct															
			FHWARCNM								Proposed Pro ec	Proposed Pro ec					Proposed Pro ec
			Cons uc on									Ca cu a ed sound eve					
			Equipmen Lmaxa 50		Ca cu a ed sound eve												
	Ho espowe	uni s	Fee dBA	Usage Fac o %	at 100 ee Leg dBA	at500 ee LeqdBA	at 1000 ee Leg dBA	at 1500 ee Leg dBA	at 2500 ee Leq dBA	at5000 ee LeqdBA	dBA	dBA	(Leg dBA	fee LeqdBA	(LegdBA	(Leg dBA	dBA 3
Onshore Excavator	600		1 81	40%	71	56.7	50.7	47	4	37	3	36	40	30	22	40	36
Onshore End Loader	250)	1 79	40%	69	55.1	49.1	46	4:	35	3	8 34	40	25	21	35	31
Onshore Crane	180)	1 81	169	67	52.6	46.6	43	38	33	3	4 35	36	26	15	32	28
Air Compressor	50		1 78	409	68	53.7	47.7	44	41	34	3	5 33	36	27	20	33	25
Truck - Dump 10-12																	
Yards	419	5	1 76	409	66	52.5	46.5	43	38	33	3	4 33	38	21	19	31	27
Onshore Dewatering																	
Equipment	50	0	2 85	509	79	66	59	56	5:	45	4	6 44	50	35	31	37	33
Combined					80.6	66.6	60.6	57	5	47	4	8 46	52	41	33	44	40
Federal Highway Adminis	tration (FHWA) 2006 FH	WA Roadway Construction	sound Model Version 1 fr I	Iser's Guide Final Report	DOT, VNTSC, FHWA, 05, 01	FHW4.HFP.05.054 Pren	ared for U.S. Denartment of	Transportation Federal H	ighway Administration Off	ce of Natural and Human I	nvironment Washington I	C 20590 https://msan.nt/	hts anylview/dnt/8895				

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220 KV submarine segment	- Daytime Work															Proposed Project	Proposed Project	Proposed Project			
							Usage Factor (Hours of	Calculated sound level	Calculated sound level	Calculated sound level	Calculated sound level	Calculated sound level	Calculated sound level	Calculated sound level	Calculated sound level	Cacluated sound level at NR3, 2400 feet (Leq	t Calculated soundlevel at NR1, 2750 feet (Leq	Proposed Project Calculated sound level at NR2, 2965 feet (Leq dBA)	Alt 1 Calculated sound level at NR1, 2850 feet	Alt 1 Calculated sound lavel at NR2x1, 10400 feet (Leq dSA)	Alt 2 Calculated sound level at NRS, 24500 feet (Leq dBA)2
Construction equipment Water Pumps	Analog Equipment Diesel pump	Lmax at 50 feet (dBA)	Number 2	Hours of Use (Total)	Hours of Use Daytime	Days of Use 122	use/12) 1	t 50 feet (LeqdBA)	at 1000 feet (Leg dBA)	at 2000 feet (Leg dBA)	at 2000 feet (Leg dBA)	at 4000 feet (Leg dBA)	at 5000 feet (Leg dBA)	at 6000 feet (Leg dBA)	at 7000 feet (Leg dBA)	dDA)	(ALL)	an)	(LeqdBA)	feet (Leg dSA)	(LeqdBA)2
Deck Generator Deck Equipment 100 hp	_	85	2	21	12	122	100%	84	50	52	40	40	- 44	45	41	50	45	- 40	- 6	26	20
diesel Anchor Winches		81 85	- 1	21 12	12	122	100%	81	55 62	56	45 52	40 50	41	2	20	50	55	45	55	2	27
Deck Winch Crane		85 81		12	12	122	100%	77	59 51	53 45	49	2	- 2	40	6	51	50	2	50	26	21
Linear Cable Engine Barge Tug		85 87	1	12	12	122	2 100%	25 23	59 67	53	49 57	5	45	5 65	65	51	50	55	50	26	21
Dark Generator - 100kW	-	83	2	17	12	122	100%	84	50	52	41	40	4		41	50	4	40	45	20	30
Small Boats Deck Equipment 100 hp diesel	Material hoist / tugboat	85	- 1	16	12	123	200%	85	59	53	43	- 4	40	43	45	51	50	40	50	26	21
		81 81	2	6	9	6	7 50% 7 17%	81 73	55 47	41	45	40	41	20	31	40	2 40	42	40	22	27 19
Dive Compressor Deck Generator Anchor Tug	Air compressor Portable generator	76 61		2 22	12	67	2 17%	70 81	44 55	28	34 45	22	20	21	27	6	20	22	2	2	27
		87	-	22	12		200%	67	- 61	55	53	- 4	- 6		4	5	5	- 6	5	41	23
Deck-Generator - 100kW Survey Vessel	Material holet / husboar	81 81		22 11	12	20	1 100% 1 92%	85 81	55 55	49	45 45	40	4	20	31	40	2 40 2 41	40	40	2	27 4 27
Deck Generator - 1000V Survey Vessel Put is Which Combined Solano levee insertion loss Solano after insertion loss	Material hoist / tugboat	90	1	- 11		21	92%	90	72	56	54	50	56	1 56	55	56	6 6	60	63	5 45	36
Solano levee insertion loss								10	10	11	12	10	10) 10	10	10	10	10	10	10	10
Solano after insertion loss								88	62	55	50	50	- 4	. 40	. 45	54	53	50	53	45	26
Existing sound Level at Receptor																	41	4	4	4	40
Counting sound Level at Receptor Combined Project and Enisting at Receptor City of Pittsburg wall insertice loss																	54	50	54		
City of Pittsburg wall insertice loss								10	11	12	12	10	10	10	10	10			10	10	10
City of Pittsburg after insertice loss								88	61	54	49	50	- 4	1 60	- 4	54			53	1 65	2 34
Existing sound Level at Receptor																41					
Combined Project and Existing at Receptor																					
220 KV submarine segment	- Nighttima Work																				
22 X SALES IN SECTION	-agazani wax															Contracted around local at	Proposed Project Calculated sound level	Proposed Project Calculated soundlevel	All A Colombia de const	AD A Colombia descent	an account of the count
Construction equipment	Analog Equipment	Lmax at 50 feet (dBA)	Number	Hours of Use (Total)	Hours of Use Night (Total Hours of Use - X)	Days of Use	Usage Factor (Hours of Guse/12)	Calculated sound level d 50 feet (LeqdBA)	Calculated sound level at 1000 feet (Leg dBA)	Calculated soundlevel	Calculated sound level at 2000 feet (Leg dBA)	Calculated sound level	Calculated sound level	Calculated sound level at 6000 feet (Leg dBA)	Calculated sound level	NR3, 2400 feet (Leq	at NR1, 2750 feet (Leq	at NR2, 2965 feet (Leq	Alt 1 Calculated sound invel at NR1, 2850 feet (Leq dBA)	Alt 1 Calculated sound level at NR2x1, 10400 feet (Leq dBA)	Alt 2 Calculated sound level at NRG, 24500 feet (Leq dBA)2
	Diesel pump	79	2	15	2	122	25%	72	66	60	26	24	22	2	25	2	27	34	27	20	21
Deck Generator Deck Equipment 100 hp diesel		81	-	21		122	75%	75			30	37		92	20	41		37			36
Deck Generator - 100kW		81		17		122	429	74		42	30	2	2	20	21						36
	Material holst / tugbout	85		56	4	122	22%	70	52	46	62	40	3	2	2	40	- 6	4	- 6	2	26
Combined Solano levee insertion loss								10	10	11	12	10	10) 10	10	10	10	10	10	10	10
Solano after insertion loss								72	47	40	25	2	. 20	21		26		. 2		1 20	5 23
Existing sound Level at Receptor Combined Project and																	- 6	- 6	- 6		62
Combined Project and Existing at Receptor																	42				9
Existing at Receptor City of Pittsburg wall insertice loss City of Pittsburg after								10	10	11	12	10	10) 10	10	10			10) 10	10
City of Pittsburg after insertion loss								72	47	40	25	2	. 20	2	. 20	2			2	1 20	22
Insertion loss Existing sound Level at Receptor																40					
230 KV Submarine Segmen	t Day/Night Leq																Proposed Project	Proposed Project			
C	Anning Products	Lmax at 50 feet (dBA)	Number 1	Hours of Night Use	Hours Day Use	Days of Use	Usage Factor (Hours of G	Calculated sound level et 50 feet (LeqdBA)	Calculated sound level at 1000 feet (Leg dBA)	Calculated soundlevel	Calculated sound level at 2000 feet (Leg dBA)	Calculated sound level	Calculated sound level	Calculated sound level	Calculated sound level	Cinclusted sound level at NR3, 2400 feet (Leq	at NR1, 2750 feet (Leq	Calculated sound level at NR2, 2965 feet (Leq	Alt 1 Calculated sound level at NR1, 2050 feet (Leg dBA)	Alt 1 Calculated sound level at NP2x1, 10400 feet (Leq dSA)	Alt 2 Calculated sound level at NRG, 24500 feet
Construction equipment Water Pumps Dank Generator	Analog Equipment	70	Number 2	mass or night the	Acors Dayose	Days or Use	USE(24) 62%	E2	n averes (uspell)	so and the second secon	A7	on waterest (Leg dBA)	an audement (Leg dBA)	at 6000 feet (Leg dBA)	m reducent (Leg dBA)	45	- 4	- 44	projekt)	Leed (SEA)	panyteaja 26
Dack Generator Dack Equipment 100 hp						100		90			54										
Anchor Winches Deck Winch		85 85	2	0	12	122	50% 50%	85 85	59 59	53	51 49	6	45	- 6	- 6 - 6	51	50		50	25	21
Crane Unear Cable Engine		81		0	5	125	22%	74 87	40	42	30	2	34	20	31	4	3	2	25	2	20
Barge Tug	-	87	4	0	ii	122	46%	90	64	58	54	55	90	4	- 6	9	30	5	50	4	35
Deck Generator - 100kW Small Boats	Material hoist / tugboat	81	2	5	12	122	71%	87	61	55	51	45	40	45	4	50	55	45	50	41	33
Deck Equipment 100 hp diesel		81	2			6	25%	79	53	47	43	40	20	23	30	4	4	4	4	22	25
	Air compressor	81	- 1	0	2	61	2 8%	71	45	29	35	22	31	25	21	33	2 20	22	20	25	17
Dive Compressor Deck Generator Anchor Tug	Portable generator	81		0	12	6	2 50% 3 92%	79	52 61	46	42	4	2	2	2	4	4 4	4	4	2	2 24
Deck Generator - 100kW	-	81		0	12		92%	61	55	49	45	-	4	2	2	-6				3	27
Survey Vessel Pull In Winch Combined	Material hoist / tugbout	81 90		0	11	20	40%	79	52 61	46 55	42 51	40	31	2 43	20	4:	4 40	4	40	2 4	2 24
								94	72	- ii	62	ė.	1 3		i i	û	4 6	i ii	e e	1 1	i ű
Solano levee insertion loss Solano after insertion								10						0 10	1	- 1	9 11	11	11	9 11	10
loss Solans after insertion loss Existing sound-turvel at Receptor Combined Project and Existing at Receptor City of Philaburg wall Insertion loss City of Philaburg after Insertion loss Datation approach on the Datation a									63	55	50		41	0 40	4	Se	53	50	50	4:	34
Receptor Combined Project and																	41	4	4	4	41
Existing at Receptor City of Pittsburg wall																	54	50	54	4 41	44
Insertion loss City of Pittsburg after								10							31	21			31	0 10	0 10
Insertion loss Existing sound Level at Receptor								88	63	55	50		4	. 4	45	54	d		50	3 4	1 34
Combined Project and Dristing at Receptor	one prose see															SI					
Destroit Highway Membrah	OFFICE STREET, SOME THE	MAD and any Construction of	conditional Mention I (II-I	base's Golde Final Report I d Site Phase I Final Design	n Report, Prepared for Ger	ments Dectric Company, No.	and feel (5 Department of 7	Augustation Endors (1) Augustation Endors (1)	ghouse Administration Office out N2011/201 DR11/20ATTA	CHORENTYZELOST.	entroproceed Washington Fa	C 20500 Milyar-Dossay at	Marganhian Med (BBO).								
Epsilon Associates Inc. 200	St. "ATJCT/THERE! I - NO SE																				

230 kV submarine souther	rn transition approach		FHWA RCNM										
			Construct on Equ pmen Lmax a 50		Ca cu ated sound eve					Ca cu ated sound eve			i
	Horsepower	Quant ty	Fee (dBA)	Usage ac or	at 50 feet (Leq dBA)	at 100 eet (Leq dBA)	at 250 feet (Leq dBA)	at 500 feet (Leq dBA)	at 1000 feet Leq dBA)	at 2000 eet (Leq dBA)	dBA		
Onshore Crane	180	1	81	16%	73	67	59	53	47	41	39		
Crane - 200 ton	275	1	81	16%	73	67	59	53	47	41	39		
Onshore Vibratory													in .
Hammer	300	1	101	20%	94	88	80	74	68	62	60		in .
Air Compressor	50	1	78	40%	74	68	60	54	48	42	40		
Truck - Dump 10-12 Yd	415	4	76	40%	78	72	64	58	52	46	44		
Onshore Dewatering													in .
Equip	50	2	85	50%	85	79	71	65	59	53	51		in .
Combined					95	89	81	75	69	63	61		
ederal Highway Adminis	tration (FHWA), 2006, FHV	WARoadway Construction	sound Model Version 1.0: U	ser's Guide, Final Report	DOT-VNTSC-FHWA-05-01:	FHWA-HEP-05-054, Prepa	red for U.S. Department of	Transportation Federal Hi	ghway Administration Office	ce of Natural and Human E	nvironment Washington Di	C 20590, https://rosap.ntl.	bts.gov/view/dot/8895,

SPGC 230 kV Undergrour	nd Segment – Substation Ge												
		Est ma ed number of	FHWA RCNM Construct on Equ pmen Lmaxa 50					Ca cu ated sound eve			Ca cu ated sound eve		
	Output (horsepower)	units	Fee (dBA)		dBA	at 100 feet (Leq dBA)	at 500 feet (Leq dBA)	at 1000 feet (Leq dBA)	at 1500 eet (Leq dBA)	at 2500 eet (Leq dBA)	at 5000 feet (Leq dBA)	dBA	
ickup - 1 Ton	410	4	75	40%	77	71	57	51	48	43	37	45	
'eldingTruck	395	2	74	40%	73	67	53	47	44	39	33	41	
enerator – 25 kW	36	2	81	50%	81	75	61	55	52	47	41	49	
ane - 35 Ton (Manlift)	250	2	81	16%	76	70	56	50	47	42	36	45	
orklift - 10000 Reach	130	2	88	40%	87	81	67	61	58	53	47	55	
orklift -15000 Pounds	130	1	88	40%	84	78	64	58	55	50	44	52	
ader - 4-5 Yards	74	2	79	40%	78	72	58	52	49	44	38	46	
ire Trailer/ Tensioner	175	1	85	50%	82	76	62	56	52	48	42	50	
ire Puller	175	1	85	50%	82	76	62	56	52	48	42	50	
id steer loader	74	2	79	40%	78	72	58	52	49	44	38	46	
ckhoe - 2X4	68	2	78	40%	77	71	57	51	48	43	37	45	
mbined					92	86	72	66	62	58	52	60	
	1												

PG&E Substation Modifica	ations	1					I	I		1	I	1	
our bubsiation i loanica	Stions		FHWA RCNM										
			Construct on										
		Est ma ed number of	Equipmen Lmaxa 50		Ca cu ated sound eve					Ca cu ated sound eve			
u pment kup - 1/2 Ton	Horsepower 39	units			at X50 feet (Leq dBA)	71	80 250 Teet (Leg (IDA)) 63		at 1000 eet (LequbA) 5	at 2500 eet (Leq dBA)			
kup - 1 Ton	41				77	71	63						
eldingTruck	39				73								
ane - 35 Ton (Manlift)	25				76								
orklift -15000 Pounds anlift -40 Feet	13				84 76		70						
0-Foot Manlift	7	4 2		40%	76		60				34		
ombined	,		,,,	4070	87								
st Staging Yard Establis	hment and Use												
			FHWA RCNM										
		Est ma ed number of	Construct on Equ pmen Lmaxa 50		Ca cu stad sound ava	Co cu stadeound eve	Ca cu sted sound eve	Co ou sted sound eve	Co cu stadeound eve	Ca cu ated sound eve	Co cu sted sound eve	At negreet NP3 290 feet	
u pment	Horsepower	units		Usage Fac o %	at X50 feet (Leg dBA)	at 100 feet (Leg dBA)	at 250 feet (Leg dBA)	at 500 feet (Leg dBA)	at 1000 eet (Leg dBA)	at 2500 eet (Leq dBA)	at 5000 eet (Leg dBA)	(LeadBA)	
ater Truck (4000 Gal													
0 HP)	30		72	40%	68	62	54	48	4		28	04	
ader (4-5 Yd 74 HP)	7	4 :	1 79	40%	75	69	61	55	4	9 41	35	61	
imp Truck (10-12 Yd 5 HP)	41		76	4007	70	66	58	52		38		58	
onrj	41		76	40%	72	66	58	52	4	38	30	58	
otor Grader (250 HP)	25	0 :	85	40%	81	75	67	61	. 5	5 47	4:	. 67	
		1					1	1	1	1			
crapper (410 HP)	41	0 :	84	40%	80	74	66	60	5	46	46	66	
bratory Roller (157 HP)	15	7 :	1 80	20%	73	67	59	53	4	7 39	33	59	
ckup Truck (1/2-Ton 95 HP)	39		75	40%			60	54		8 40	3.	60	
io ne)	39		/5	40%	/4	00	- 60	54	4	40	3-	00	
enerator (36 HP)	3	6 :	81	50%	81	75	67	61	. 5	5 47	4:	67	
orklift (15000 Lb Reach													
80 HP)	13	0 :	2 88	20%	84	78	70	64	5	B 50	4	70	
ickup Truck (1-Ton 410													
P) 14 Loader (417 HP)	41		2 75	40%	74	68	60	54	4	9 40	34	60	
emi-Truck (500 HP)1	50		79		73								
ombined	50			40.0	89	83	75						
est Staging Yard Establis	shment and I ke												
CSC OCUBING TUTO ESCUBI.	SHITICHT GITG GGC		FHWA RCNM										
			Construct on										
		Est ma ed number of	Equipmen Lmax a 50							Ca cu ated sound eve			
	Horsepower	units	Fee (dBA)	Usage Fac o %	at X50 feet (Leq dBA)	at 100 feet (Leq dBA)	at 250 feet (Leq dBA)	at 500 feet (Leq dBA)	at 1000 eet (Leq dBA)	at 2500 eet (Leq dBA)	at 5000 eet (Leq dBA)	feet (Leq dBA)	
ater Truck (4000 Gal IO HP)	30		72	40%		62		48				38	
ohP) ader (4-5 Yd 74 HP)	7		1 72		58 75	62	54		4	9 41	31		
ump Truck (10-12 Yd	,		,,,	40.0	,,	0.0	0.	55	_	7	J.	70	
15 HP)	41		1 76	40%	72	66	58	52	4	38	33	42	
otor Grader (250 HP)	25		1 85		81		67						
rapper (410 HP)	41	0	1 84	40%	80	74	66	60	5	4 46	4	50	
					73	67							
oratory Roller (157 HP)	15	1	1 80	20%	73	67	59	53	4	7 39	3	43	
kup Truck (1/2-Ton 5 HP)	39	5	75	40%	74	68	60	54	4	B 4r	3.	44	
nerator (36 HP)	3		2 81		81	75	67	61	5	5 47	4	51	
rklift (15000 Lb Reach		T			0.	7.0	0,	0.	1	1	1		
0 HP)	13	0 :	2 88	20%	84	78	70	64	. 5	B 50	4	54	
ckup Truck (1-Ton 410													
)	41		75	40%	74	68	60	54	4	8 40	3	44	
4 Loader (417 HP) mi-Truck (500 HP)1	41		1 79	40%	75	69	61						
mi-Truck (500 HP)1 ombined	50	u :	4 /4	40%	/3								
					00	00	,				*	35	
deral Highway Administ													

elecommunications Inter	rconnection Lines														
			FHWA RCNM Cons uc on Equ pmen Lmax a 50		Ca cu a ed sound eve									Ca cu a ed sound eve	
	Outpu ho sepower	uni s	Fee dBA			at 20 ee Leq dBA	at 50 ee Leq dBA	at100 ee LeqdBA			at 1000 ee Leq dBA	at 2500 ee Leq dBA	at 3000 ee Leq dBA	at 3500 ee Leq dBA	dBA
Crane - 35 Ton (Manlift)	250		2 81	16%		84	76	70	6	56	50	42	41	39	
orklift - 10000 Reach	130) :	1 88	20%	95	89	81	75	6	61	58	47	46	44	
xcavator - Mini	70) :	2 81	40%	94	88	80	74	66	60	54	46	45	43	8
ruck - Dump 10-12															
ards	415		3 76	40%	91	85	77	71	6:	57	51	43	40	40	7.
ikid steer loader	74		2 79	40%	92	86	78	72	2 64	58	50	. 44	43	41	. 7
rencher	75		1 80	50%	94	88	80	74	66	60	54	46	45	43	8
ickup - 1 Ton	410) :	3 75	40%	90	84	. 76	70	6:	. 56	50	42	41	39	7
ruck - Concrete	425		2 79	40%	89	83	75	69	6:	55	45	41	40	38	7
Vire Trailer/ Tensioner	175		1 85	50%	96	90	82	76	61	62	56	48	47	45	8
Vire Puller	175	1	1 85	50%	96	90	82	76	61	60	56	48	47	45	8
Combined					103	97	89	83	3 76	69	63	56	54	53	9
									1	1					

			ı		I	I	1
Proposed Propject sound Levels from LSPGC							
Telecommunication Interconnection Lines							
Construction							
	Calculated sound level						
	at 20 feet (Leq dBA)			at 500 feet (Leq dBA)		at 2500 feet (Leq dBA)	at 3000 feet (Leq dBA)
Project -generated	97		76				
Existing ambient	42	42	42	42	42		
Combined project-generated and existing ambient	97	83	76	69			
Change in existing ambient sound levels	55		34	27	21		
Onlinge in existing ambient sound tevets	- 55	71	04	27		17	12
	+						+
L							
Federal Highway Administration (FHWA). 2006.							
FHWA Roadway Construction sound Model Version							
1.0: User's Guide, Final Report DOT-VNTSC-FHWA-							
05-01; FHWA-HFP-05-054. Prepared for U.S.							
Department of Transportation Federal Highway							
Administration Office of Natural and Human							
Environment Washington DC 20590.							
https://rosap.ntl.bts.gov/view/dot/8895.							

LS Power Grid California, LLC
October 2025
15 Collinsville 500/230 kV Substation Pr

500 kV Transposition														
Structures - Foundation														
Installation														
			FHWA RCNM											
	An c pa ed Eng ne	Est ma ed number o	Construct on Equ pmen Lmax a 50							Ca cu a ed sound eve		Ca cu ated sound eve	at NR6 1100 eet Leq	
		uni s	Fee dBA	Usage Fac o %						at 2500 ee Leg dBA		dBA	dBA	dBA
Pressure Digger - Lo-Drill	Output (norseponer	u 2	ree don	OJUNE O N	acoo ce (cequox)	ut 100 cct Ecqubx)	ut 250 cc (ccqubx)	acooo ee Eequox	at 1000 feet Ecqubx	at 2000 CC CCQ abx	UUA	UDA	UDA	UDA
(Tracked)	275		84	20%	7	71	6	3 5	7 5	1 43	51	52	50	
Truck - Concrete	425		2 79			72	6	4 51	8 5	2 44	52	53	5:	
Pickup - 1 Ton	410		75											
Truck - Water 4 K	300		72											
Truck - Dump 10-12 Yd	415		1 76											
Skid steer loader	74		1 85											
Crane - 35 Ton (Manlift)	250		1 81		7:									
Excavator	250)	1 81	40%	7.					1 43				
Combined					84	1 78	7	0 6	4 5	8 50	58	5 55	5	,
F001117														
500 kV Transposition Structures – Structure														
and Conductor														
Installation inclusive of														
helicopter use														
			FHWA RCNM											
			Construct on									Ca cu ated sound eve		
	An c pa ed Eng ne		Equipmen Lmax a 50							Ca cu a ed sound eve			at NR6 1100 eet Leq	
	Output (horsepower	uni s	Fee dBA	Usage Fac o %	at 50 ee (LeqdBA)		at 250 ee (Leq dBA)		at 1000 feet Leq dBA		dBA	dBA	dBA	dBA
Crane - 35 Ton (Manlift) Pickup - 1/2 ton	250		1 81				5							
Pickup - 1/2 ton	396 410		1 75											
Crane - 200 Ton	275		1 8:											
D8 Sag Dozer	200		1 8											
Truck - Water 4 K	300		72											
Wire Puller	175		1 85						2 5					
Wire Trailer/ Tensioner	175		1 85	50%	8	2 70	6	8 6	2 5	6 48	56	57	5	5
Helicopter (light duty)	700		1 10:	1 50%	9	B 90	2 7			6 70	72	2 73	7	
Jet fuel truck	300)	1 72	2 40%	6					5 65			4	
Combined					9	90	2 7	8 7	8 7	7 70	72	2 73	7.	2
500 kV Transposition														
Structures - Structure and Conductor														
Installation ground-														
based work only														
			FHWA RCNM											
			Construct on								Ca cu ated sound eve	Ca cu ated sound eve	Ca cu a ed sound eve	Ca cu a ed sound eve
	An c pa ed Eng ne		Equ pmen Lmax a 50							Ca cu a ed sound eve	at NR4 1000 ee Leq	at NR5 900 feet Leq	at NR6 1100 eet Leq	at NR7345 ee (Leq
Equ pmen Name	Output (horsepower	uni s	Fee dBA	Usage Fac o %	at 50 ee (LeqdBA)					at 2500 ee Leq dBA		dBA	dBA	dBA
			l	l	5									
Crane - 35 Ton (Manlift) Pickup - 1/2 ton	251		1 8:											
Pickup - 1/2 ton Pickup - 1 ton	399		4 7											
Crane - 200 Ton	275		1 8											
D8 Sag Dozer	20		1 8											
Truck - Water 4 K	301		1 7							2 3				
Wire Puller	175		1 8							6 4				
Wire Trailer/ Tensioner	17		1 8									6 5		
Jet fuel truck	30		1 7:			8 6:	2 6		8 6	5 6	4:	2 4:	3 4	1
Combined					8	7 8:	1 7	74 6	7 6	7 6	6	1 6:	2 6	1
				User's Guide, Final Report	8	7 8	1 7	4 6						

LSPGC 230 kV Undergroun	d Segment - Substation Gr	etaways													
Equipmen Name	Anticipa ed Engine Ou pu ho sepower	Est mated number o un s	FHWA RCNM Cons ruc ion Equ pmen Lmax at 50	Usage Fac or (%	Ca cu a ed sound eve at d s ance 50 ee Leq dBA				Ca cu a ed sound eve at 1500 ee Leg dBA		Ca cu a ed sound eve				at NR6 21000 ee Leq
Pickup - 1 Ton	410	4	Fee dBA) 75	409	95A 75	actuu ee Legasa 69	at 500 ee Leg ob A 55	at 1000 ee Legaba	51 1500 ee Lequisa 46	at 2500 ee Lequisa	atbuuu ee Lequisa	38 38	GBA 33	GBA 31	dBA 23
Welding Truck	395	2	74	40%	74	68	54	48	45	40	34	37	36	30	22
Generator – 25 kW	36	2	81	50%	81	75	61	55	52	47	41	44	43	37	29
Crane - 35 Ton (Manlift)	250	2	81	16%	81	75	61	55	52	47	41	44	43	37	29
Forklift - 10,000 Reach	130	2	79	40%	88	82	68	62	59	54	48	51	. 50	44	36
Forklift -15,000 Pounds	130	1	79	40%	88	82	68	62	59	54	48	51	. 50	44	36
Loader - 4-5 Yards	74	2	80	40%	79	73	59	53	50	45	35	42	41	. 35	27
Wire Trailer/ Tensioner	175	1	85	50%	85	79	65	59	56	51	45	48	47	41	33
Wire Puller	175	1	85	50%	85	79	65	59	56	51	45	48	47	41	33
Skid steer loader	74	2	85	40%	79	73	59	53	50	45	35	42	41	. 35	27
Backhoe - 2X4	68	2	80	40%	78	72	58	52	49	44	38	41	. 40	34	26
Combined					94	88	74	68	64	60	54	57	56	49	41
Federal Highway Administ	tration (FHWA), 2006, FH	WA Roadway Construction	sound Model Version 1.0: L	Iser's Guide, Final Report	DOT-VNTSC-FHWA-05-01:	FHWA-HEP-05-054, Prepa	red for U.S. Department of	Transportation Federal H	ighway Administration Offi	ce of Natural and Human I	nvironment Washington D	C 20590, https://rosap.ntl	.bts.gov/view/dot/8895.	1	

Alternative 5 230 kV subma	arine segment site prep e	quipment list								NR3			
								Ca cu ated sound eve	Ca cu ated sound eve	Ca cu ated sound eve			
		No se eve (dB Lmax at						at d stance 50 feet (Leq	at d stance 1000 feet	at d stance at NR3 2400			
Construct on equ pment	Ana og Equ pment	50 feet)	Number	Hours o Use	Hours of Use Dayt me	Days of Use	Usage ac or	dBA	(Leq dBA)	feet (Leq dBA)			
Anchor Winches	Portable Generator	85	2	12	12	10	100%	99	73	39			
Crane	Truck Crane	81	1	5	5	10	100%	88	73	39			
	Tugboat / Large Engine												
Barge Tug	Vessel	87	1	11	11	10	100%	97	73	39			
	Small Outboard												
Small Boats	Motorboat	85	2	16	12	10	75%	98	73	39			
Anchor Tug	Tugboat	87	1	22	12	10	55%	95	73	39			
Comnbined								104	80	46			
Federal Highway Administ	ral Highway Administration (FHWA), 2006, FHWA Roadway Construction sound Model Version 1.0: User's Guide. Final Report DOT-VNTSC-FHWA-05-01: FHWA-EP-05-054, Prepared for U.S. Department of Transportation Federal Highway Administration Office of Natural and Human Environment Washington DC 20590, https://rosap.ntt.bts.gov/view/dot/8895.												

Component and activity Strat date End date (feet) Project sound (Legal(A) Insertion loss (LegA) (My(1) (LegA) (LegA) (My(1) (LegA) (LegA	Proposed Project Activitie	es sound Levels at NR1							
Collinary in Substantion: S1/2026 8/1/2028 3546 55 55 48 56								daytime sound levels	activity and existing ambient sound levels
Six development 51/2006 8/17/202 3545 55 55 48 56 50		Start date	End date	(feet)	Project sound (Leq dBA)	Insertion loss (dBA)	insertion loss (Leq dBA)	(NM2) (Leq dBA)	(Leq dBA)
Collinewills Substations S									
Belowey gade 7/14/2026 11/4/2027 3545 57 57 48 57 48 57 About 57 A		5/1/2026	8/1/2026	3545	55		55	48	56
Collinewills substation abovegase 1/2/2027 2/11/2028 3545 53 53 48 54 52 200 Wornhead: access 1/10/207 5/19/2027 4500 46 46 48 50 200 Wornhead: access 1/10/207 5/19/2027 4500 46 46 48 50 200 Wornhead: structure foundation installation 5/20/2027 6/15/2027 4500 49 49 48 48 51 200 Wornhead: structure foundation installation 5/20/2027 6/15/2027 4500 45 45 48 48 50 200 Wornhead: structure foundation for structure foundation with the foliopter) 7/16/2027 8/15/2027 4500 50 50 50 48 6 50 200 W Conductor foundation (with helicopter) 7/16/2027 8/15/2027 4500 50 50 50 48 52 200 W Conductor foundation (without helicopter) 7/16/2027 8/15/2027 4500 50 50 50 48 52 200 W Conductor foundation (without helicopter) 7/16/2027 8/15/2027 4500 50 50 50 48 52 200 W Conductor foundation (without helicopter) 7/16/2027 8/15/2027 4500 50 50 50 48 52 200 W Conductor foundation (without helicopter) 7/16/2027 8/15/2027 4500 50 50 50 50 48 52 200 W Conductor foundation (without helicopter) 7/16/2027 8/15/2027 4500 50 50 50 50 48 52 200 W Conductor foundation f									
2007 2007		7/14/2026	1/14/2027	3545	57		57	48	57
200 W		1/0/0007	0/11/0000	25.45	50			40	54
Transport Tran		1/2/202/	2/11/2028	3545	53		53	48	54
200 N Operation 1 1 1 1 1 1 1 1 1		E/4/0007	E/40/0007	4500	40		40	40	50
Overheadstructure		5/1/202/	5/19/202/	4500	46		46	48	50
Foundation installation									
230 W conductor 15/20/2027 6/15/2027 4500 45 45 48 50 20 45 48 50 20 45 48 50 20 45 48 50 20 45 48 50 20 45 48 50 20 45 48 50 20 45 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 48 50 20 20 20 20 20 20 20		5/20/2027	6/15/2027	4500	/9		/0	/18	51
overheadstructure installation 5/20/2027 6/15/2027 450 45 45 48 50 230 NV Conductor installation (with installation (with helicopter) 7/16/2027 8/15/2027 4500 59 59 48 60 230 NV Conductor installation (without helicopter) 7/16/2027 8/15/2027 4500 50 50 48 60 230 NV Conductor installation (without helicopter) 7/16/2027 8/15/2027 4500 50 50 48 60 230 NV Conductor installation (without helicopter) 7/16/2027 8/15/2027 4500 50 50 48 52 Submarine cable 7/11/27 7/16/2027 4500 50 50 48 52 Submarine cable 7/11/27 7/12/27 2750 63 10 53 48 54 Collinsitie Substation Size and ROW restoration 2/12/28 7/17/28 3545 51 51 48 48 Approach 10 Substation 10 S		5/20/2027	0/10/202/	4000	40		40	40	51
Installation 5/20/2027 6/15/2027 4500 45 45 48 50									
Installation (with helicopter)		5/20/2027	6/15/2027	4500	45		45	48	50
Installation (with helicopter)	230 kV Conductor								
230 kV Conductor Installation (without helicopter)	installation (with								
Installation (without helicopter)	helicopter)	7/16/2027	8/15/2027	4500	59		59	48	60
Relicopter 7/16/2027 8/15/2027 4500 50 50 48 52	230 kV Conductor								
Submarine cable 7/11/27 10/31/27 2750 63 10 53 48 54									
Collinsville Substation: Site and ROW restoration 2/1/28 7/17/28 3545 51 51 48 53 Northern Transition Approach 6/15/27 11/30/27 2750 46 10 36 48 48 500 kV interconnection: structure foundation installation 6/1/27 7/28/27 4400 51 51 48 53 500 kV interconnection: structure installation (with nelicopter) 7/29/27 9/23/27 4025 66 66 48 66 500 kV interconnection: structure installation (without helicopter) 9/24/27 11/19/27 4025 46 46 48 50 500 kV interconnection: onduc tor installation (with helicopter) 7/29/27 9/23/27 4025 46 46 48 50 500 kV interconnection: conduc tor installation (with helicopter) 7/29/27 9/23/27 4025 60 60 48 60 500 kV interconnection: conduc tor installation (with helicopter) 7/29/27 9/23/27 4025 60 60 48 60 500 kV interconnection: conduc tor installation (with helicopter) 7/29/27 9/23/27 4025 48 48 48 51 500 kV interconnection: conduc tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 48 51 500 kV interconnection: conduc tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 48 51 500 kV interconnection: conduc tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 48 51 500 kV interconnection: conduc tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 48 51 500 kV interconnection: conduc tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 48 51 500 kV interconnection: conduc tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 51 500 kV interconnection: conduc tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 51 500 kV interconnection: conduc tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 51 500 kV interconnection: conduc tor installation (without helicopter) 9/24/27 9/2									
Site and ROW restoration 2/1/28 7/17/28 3545 51 51 48 53		7/1/27	10/31/27	2750	63	10	53	48	54
Testoration 1/1/28 1/1/28 3545 51 51 48 53									
Northern Transition		0/4/00	7,47,00	05.45				40	50
Approach 6/15/27 11/30/27 2750 46 10 36 48 48 48 500 kV interconnection: structure foundation installation (with helicopter) 7/29/27 9/23/27 4025 46 48 48 50 48 48 50 500 kV interconnection: structure installation (with helicopter) 9/24/27 9/23/27 4025 46 46 48 50 500 kV interconnection: of installation (with helicopter) 7/29/27 9/23/27 4025 46 46 48 50 500 kV interconnection: of installation (with helicopter) 9/24/27 9/23/27 4025 60 60 48 60 500 kV interconnection: onduc tor installation (with helicopter) 7/29/27 9/23/27 4025 60 60 48 60 500 kV interconnection: onduc tor installation (without helicopter) 9/24/27 9/23/27 4025 48 48 48 51 51 57 57 48 57 57 57 57 57 57 57 5		2/1/28	//1//28	3545	51		51	48	53
Sol kV interconnection: structure foundation Installation Sol		6/15/07	11/20/27	2750	46	10	26	40	40
Structure foundation Installation G/1/27 7/28/27 4400 51 51 48 53 53 50 kV interconnection: Structure installation (with helicopter) 7/29/27 9/23/27 4025 66 66 48 66 66 48 66 66		0/13/2/	11/30/2/	2/30	40	10	30	40	40
Installation 6/1/27 7/28/27 4400 51 51 48 53 500 kV interconnection: structure installation (with helicopter) 7/29/27 9/23/27 4025 66 66 48 66 66 48 66 66									
Sol KV interconnection: Structure installation (with nelicopter) 7/29/27 9/23/27 4025 66 66 48 66 66 48 66 66		6/1/27	7/28/27	4400	51		51	48	53
Structure installation (with helicopter) 7/29/27 9/23/27 4025 66 66 48 66		3,1,2,	7720727	4400	01			40	55
Sol kV interconnection: structure installation (without helicopter) 9/24/27 11/19/27 4025 46 46 48 50									
Structure installation (without helicopter) 9/24/27 11/19/27 4025 46 46 48 50	(with helicopter)	7/29/27	9/23/27	4025	66		66	48	66
(without helicopter) 9/24/27 11/19/27 4025 46 46 48 50 500 kV interconnection:conduc tor installation (with helicopter) 7/29/27 9/23/27 4025 60 60 48 60 500 kV interconnection:conduc tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 48 51 12kV distribution 6/1/26 8/1/26 2351 57 57 48 57 PG&ETI Work at 0 0 0 0 48 51 57 57 48 57	500 kV interconnection:								
500 kV Interconnection.conduc tor installation (with helicopter) 7/29/27 9/23/27 4025 60 60 48 60 60 500 kV Interconnection.conduc tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 48 51 57 57 48 57 67 67 67 67 67 67 67	structure installation								
Interconnection:conduc		9/24/27	11/19/27	4025	46		46	48	50
tor installation (with helicopter) 7/29/27 9/23/27 4025 60 60 48 60 500 kV Interconnection:conduc tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 48 51 12 kV distribution 6/1/26 8/1/26 2351 57 57 48 57 PG&E IT Work at									
helicopter 7/29/27 9/23/27 4025 60 60 48 60									
500 kV interconnection:conduc tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 48 51 12 kV distribution 6/1/26 8/1/26 2351 57 57 48 57 96&ETIWorkat 57 58 57 58 57 58 57 58 57 58 57 58 58		7,00,00	0::-						
Interconnection:conduc	<u> </u>	//29/27	9/23/27	4025	60		60	48	60
tor installation (without helicopter) 9/24/27 9/24/27 4025 48 48 48 51 12 kV distribution 6/1/26 8/1/26 2351 57 57 48 57 PG&E IT Work at									
helicopter) 9/24/27 9/24/27 4025 48 48 48 51 12 kV distribution 6/1/26 8/1/26 2351 57 57 48 57 PG&EITWork at									
12 kV distribution 6/1/26 8/1/26 2351 57 57 48 57 PG&E iT Work at		9/24/27	9/24/27	4025	40		40	40	51
PG&EITWorkat PG									
		0/1/20	0/1/20	2331	37		3/	40	37
	Collinsville Substation	1/1/27	8/31/27	3545	50		50	48	52

	Г	Г		ı		Г	ı	1
Proposed Project Activitie	e cound Lovele at NP1 with	MM NOL 2						
Proposed Project Activitie	es sound Levels at NR1 Will	I MM NOI-2						
			Distance to Component			Project sound after	Existing ambient daytime sound levels	Combined project activity and existing ambient sound levels
Component and activity	Start date	End date	(feet)	Project sound (Leq dBA)	Insertion loss (dBA)	insertion loss (Leq dBA)	(NM2) (Leq dBA)	(Leq dBA)
Collinsville Substation:								
Site developent	5/1/2026	8/1/2026	3545	55	10	45	48	50
Colinsville Substation:								
Below-grade	7/14/2026	1/14/2027	3545	55	10	45	48	50
Collinsvile Substation:								
abovegrade	1/2/2027	2/11/2028	3545	55	10	45	48	50
230 kV overhead: access								
road	5/1/2027	5/19/2027	4500	46		46	48	50
230 kV								
overhead:structure								
foundation installation	5/20/2027	6/15/2027	4500	49		49	48	51
230 kV								
overhead:structure	F (00 (0007	0/45/0007	4500	45		45	40	50
installation	5/20/2027	6/15/2027	4500	45		45	48	50
230 kV Conductor								
installation (with	7/16/2027	8/15/2027	4500	60		60	48	60
helicopter) 230 kV Conductor	//16/202/	8/15/202/	4500	50		60	48	60
installation (without								
helicopter)	7/16/2027	8/15/2027	4500	54		54	48	55
Submarine cable	7/10/2027	10/31/27	2750	63	10	53	48	
Collinsville Substation:	771127	10/01/2/	2700	00	10	50	40	54
Site and ROW								
restoration	2/1/28	7/17/28	3545	51		51	48	48
Northern Transition	2,1,20	7717720	00-10	01		0.2		40
Approach	6/15/27	11/30/27	2750	46	10	36	48	48
500 kV interconnection:								
structure foundation								
installation	6/1/27	7/28/27	4400	51		51	48	53
500 kV interconnection:								
structure installation								
(with helicopter)	7/29/27	9/23/27	4025	66		66	48	66
500 kV interconnection:								
structure installation								
(without helicopter)	9/24/27	11/19/27	4025	46		46	48	50
500 kV								
interconnection:conduc								
tor installation (with								
helicopter)	7/29/27	9/23/27	4025	60		60	48	60
500 kV								
interconnection:conduc								
tor installation (without								
helicopter)	9/24/27	9/24/27	4025	48		48	48	
12 kV distribution	6/1/26	8/1/26	2351	57		57	48	57
PG&E IT Work at								
Collinsville Substation	1/1/27	8/31/27	3545	47	10	37	48	48
Source: Arcadis U.S., Inc.	2024. sound and Vibration	Impact Assessment Repor	t.	l		l]	

Proposed Project Activities	sound Levels at NP2					1	I	1
Component and activity S		End date	Distance to Component	Project sound (Leg dBA)	luccation loss (dDA)	Project sound after insertion loss (Leg dBA)		Combined project activity and existing ambient sound levels (Leq dBA)
Component and activity S Collinsville Substation:	tart date	End date	(feet)	Project Sound (Leq abA)	insertion toss (dbA)	insertion toss (Leq ub A)	(NM2) (Leq aba)	(LequbA)
Site development	5/1/2026	8/1/2026	3787	55		55	48	56
Collinsville Substation:	3/1/2026	0/1/2020	3/0/	55		55	40	36
Below-grade	7/14/2026	1/14/2027	3787	56		56	48	57
Collinsvile Substation:	771472020	1/14/202/	0707	30			40	57
abovegrade	1/2/2027	2/11/2028	3787	56		56	48	57
230 kV overhead: access	322027	2,11,2020	0,0,				40	0,
road	5/1/2027	5/19/2027	4107	47		47	48	
230 kV								
overhead:structure								
foundation installation	5/20/2027	6/15/2027	4107	50		50	48	52
230 kV								
overhead:structure								
installation	5/20/2027	6/15/2027	4107	46		46	48	50
230 kV Conductor								
installation (with								
helicopter)	7/16/2027	8/15/2027	4107	60		60	48	60
23 kV Conductor								
installation (without								
helicopter)	7/16/2027	8/15/2027	4107	50		50	48	52
Submarine cable	7/1/27	10/31/27	3965	60	10	50	48	52
Collinsville Substation: Site and ROW								
restoration	2/1/28	7/17/28	3787	50		50	48	52
Northern Transition	2/1/20	7/17/20	3707	30		30	40	32
Approach	6/15/27	11/30/27	3965	48	10	38	48	48
500 kV interconnection:	0/10/2/	11/00/2/	5555	-10	10		40	-10
structure foundation								
installation	6/1/26	8/1/26	5500	51		51	48	53
500 kV interconnection:								
structure installation								
(with helicopter)	1/18/28	2/29/28	4070	66		66	48	66
500 kV interconnection:								
structure installation								
(without helicopter)	1/18/28	2/29/28	4070	46		46	48	50
503 kV								
interconnection:conduc								
tor installation (with	1/18/28	2/29/28	4070	60		60	48	60
helicopter)	1/18/28	2/29/28	4070	60		60	48	60
500 kV interconnection:conduc								
tor installation (without								
helicopter)	1/18/28	2/29/28	4070	48		48	48	51
12 kV distribution	6/1/26	8/1/26	1331	62		62	48	62
PG&E IT Work at	3/1/20	3/1/20	1001	02		92	40	02
Collinsville Substation	1/1/27	8/31/27	3787	50		50	48	52

T		1		ı		1	ı	1
Proposed Project Activities	s sound Levels at NR2 with	MM NOI-2						
T TO POSSOUT TO JOSE THOU THE SE	o obdina Eb voto at Title With							Combined project
							Existing ambient	activity and existing
			Distance to Component			Project sound after	daytime sound levels	ambient sound levels
Component and activity	Start date	End date	(feet)	Project sound (Leq dBA)	Insertion loss (dBA)	insertion loss (Leq dBA)		(Leq dBA)
Collinsville Substation:								
Site developent	5/1/2026	8/1/2026	3787	55	10	45	48	50
Colinsville Substation:								
Below-grade	7/14/2026	1/14/2027	3787	55	10	45	48	50
Collinsvile Substation:								
abovegrade	1/2/2027	2/11/2028	3787	55	10	45	48	50
230 kV overhead: access								
road	5/1/2027	5/19/2027	4107	47		47	48	
230 kV								
overhead:structure								
foundation installation	5/20/2027	6/15/2027	4107	50		50	48	52
230 kV								
overhead:structure	F (00 (0007	0/45/0007	4407	40		40	40	50
installation	5/20/2027	6/15/2027	4107	46		46	48	50
230 kV Conductor								
installation (with helicopter)	7/16/2027	8/15/2027	4107	61		61	48	61
23 kV Conductor	//10/202/	0/13/202/	4107	01		01	40	01
installation (without								
helicopter)	7/16/2027	8/15/2027	4107	55		55	48	56
Submarine cable	7/1/27	10/31/27	3965	60	10	50	48	
Collinsville Substation:								
Site and ROW								
restoration	2/1/28	7/17/28	3787	50		50	48	52
Northern Transition								
Approach	6/15/27	11/30/27	3965	48	10	38	48	48
500 kV interconnection:								
structure foundation								
installation	6/1/26	8/1/26	5500	51		51	48	53
500 kV interconnection:								
structure installation								
(with helicopter)	1/18/28	2/29/28	4070	66		66	48	66
500 kV interconnection:								
structure installation								
(without helicopter)	1/18/28	2/29/28	4070	46		46	48	50
503 kV								
interconnection:conduc								
tor installation (with helicopter)	1/18/28	2/29/28	4070	60		60	48	60
	1/18/28	2/29/28	4070	60		50	48	60
500 kV interconnection:conduc								
tor installation (without								
helicopter)	1/18/28	2/29/28	4070	48		48	48	51
12 kV distribution	6/1/26	8/1/26	1331	62		62	48	
PG&EITWork at	3/1/20	3/1/20	1001	02		92		02
. Jazii Wolkat	1/1/27	8/31/27	3787	50	10	50	48	52

Proposed Project Activitie	es sound Levels at NR3							
Component and activity	Start date	End date	Distance to Component	Project sound (Leq dBA)		Project sound after insertion loss (Leq dBA)	Existing ambient daytime sound levels (NM2) (Leq dBA)	Combined project activity and existing ambient sound levels (Leq dBA)
230 kV submarine								
segment cable	7/1/27	40/04/07	0.400		40	5.4	40	
installation	//1/2/	10/31/27	2400	64	10	54	46	55
230 kV submarine southern transition								
apporoach	6/15/27	11/30/27	2400	61	10	51	46	52
230 kV underground segment	6/1/27	8/23/27	1900	60	10	50	46	52
Telcommunications interconnction lines	6/1/27	10/1/27	45	90	10	80	46	80
Pittsburg Substation Upgrades	5/1/27	5/31/28	250	70	10	60	46	60
Pittsburg Substation staging yard east preparation and use	5/1/27	5/31/28	290	72	10	62	46	62
Pittsburg Substation staging yard west								
preparation and use	5/1/27	5/31/28	290	56	10	46	46	49
Alt 5 230 kV Submarine segment site preparation	9/15/26	9/30/26	2400	46	10	36	47	47

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Proposed Project Activities	s at NR4, NR5, and NR6						
0	Character dates	Fordales	Distance to component	Westsday		Existing ambient daytime sound levels	Combined project activity and existing ambient sound levels
Component and activity Transposition site A:	Start date	End date	(feet)	Work days	Project sound (Leq dBA)	(Leq dBA)	(Leq dBA)
foundation installation	6/1/27	7/28/27	1,000	48	58	30	58
Transposition site A:	0/1/2/	7720727	1,000	40	36	30	36
structure and conductor							
installation (inclusive of							
helicopters)	1/18/28	2/29/28	1,000	36	72	30	72
Transposition site A: structure and conductor installation (exclusive of	1/18/28	2/29/28	1,000	36	61	30	61
helicopters)	1/18/28	2/29/28	1,000	36	61	30	91
Transposition site B: foundation installation	6/1/27	7/28/27	900	48	59	30	59
Transposition site B: structure and conductor installation (inclusive of helicopters)	1/18/28	2/29/28	900	36	73	30	
Transposition site B: structure and conductor installation (exclusive of helicopters)	1/18/28	2/29/28	900	36	73	30	73
Transposition site C: foundation installation	6/1/27	7/28/27	1100	48	57	30	
Transposition site C: structure and conductor installation (inclusive of helicopters)	1/18/28	2/29/28	1100	36	72	30	
Transposition site C: structure and conductor installation (exclusive of helicopters)	1/18/28	2/29/28	1100	36	61	30	61
Transposition site D:							
foundation installation	6/1/27	7/28/27	345	48	67	30	67
Transposition site D: structure and conductor installation (inclusive of helicopters)	1/18/28	2/29/28	345	36	82	30	82
Transposition site D: structure and conductor installation (exclusive of helicopters)	1/18/28	2/29/28	345	36	71	30	71

Sources: Federal Highway Administration (FHWA). 2006. FHWA Roadway Construction sound Model, Version 1.0: User's Guide. Final Report, DOT-VNTSC-FHWA-05-01; FHWA-HEP-05-054. Prepared for U.S. Department of Transportation Federal Highway Administration Office of Natural and Human Environment Washington, DC 20590. https://rosap.ntl.bts.gov/view/dot/8895.

Proposed Project Overlap	pping Construction Activitie	es sound Levels at NR1				
Overlapping constuction activities		Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site development	5/1/2026	5/31/2026	26	55	48	56
Collinsville Substation: Site development + 12 kV						
distribution	6/1/2026	7/13/2026	37	59	48	59
Collinsville Substation:	0, 1, 2020	771072020	0,			55
Site development + Collinsville Substation:						
Below-grade + 12 kV distribution	7/14/2026	7/31/2026	16	61	48	61
Collinsville Substation:	7714/2020	770172020	10	01	40	01
Below-grade	8/1/2026	12/31/2026	132	57	48	57
Collinsville Substation:						
Below-grade	1/1/2027	1/1/2027	1	58	48	58
Collinsville Substation: Below-grade + Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	1/2/2027	1/13/2027	10	59	48	59
Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	1/14/2027	4/30/2027	92	55	48	56
Collinsvile Substation: abovegrade + 230 kV overhead: access road + Collinsville Substation						
PG&E IT Work	5/1/2027	5/18/2027	15	56	48	56
Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	5/19/2027	5/19/2027	1	55	48	56
Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation + Collinsville Substation PG&E IT Work	5/20/2027	5/31/2027	10	56	48	57
Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation; 500 kV interconnection: structure foundation installation + Collinsville Substation PG&E IT Work	6/1/2027	6/14/2027	12	58	48	58
Collinsvile Substation: abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville Substation PG&E IT Work	6/15/2027	6/30/2027				
Ounstation FORE II WORK	0/15/202/	0/30/202/	14	J 57	48	57

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
			,		()	(,
Collinsvile Substation: abovegrade + Submarine cable + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville Substation PG&E IT Work	7/1/2027	7/15/2027	13	58	48	59
Collinsvile Substation: abovegrade + 230 kV Conductor installation (with helicopter) + Submarine cable + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville						
Substation PG&E IT Work	7/16/2027	7/27/2027	10	61	48	61
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 230 kV Conductor installation (with helicopter) + Collinsville Substation PG&E IT Work	7/28/2027	7/28/2027	1	61	48	62
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 230 kV Conductor installation (with helicopter); 500 kV interconnection: structure installation (with helicopter); 500 kV interconnection:conduc tor installation (with helicopter) + Collinsville Substation PG&E IT Work	7/29/2027	8/14/2027	15	68	48	68
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 500 kV interconnection: structure installation (with helicopter); 500 kV interconnection:conduc tor installation (with helicopter) + Collinsville Substation PG&E ITWork	8/15/2027	8/31/2027	14	67	48	67
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 500 kV interconnection: structure installation (with helicopter); 500 kV interconnection:conduc tor installation (with helicopter)	9/1/2027	9/22/2027	19	67	48	67

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Submarine						
cable + Northern Transition Approach	9/23/2027	9/23/2027	1	56	48	57
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Submarine cable + Northern Transition Approach + 500 kV interconnection:conduc						
tor installation (with helicopter)	9/24/2027	10/30/2027	32	61	48	61
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Northern Transition Approach + 500 kV interconnection:conduc tor installation (with						
helicopter)	10/31/2027	11/18/2027	16	60	48	60
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Northern Transition Approach	11/19/2027	11/29/2027	9	54	48	55
Collinsvile Substation:						
abovegrade	11/30/2027	1/31/2028	54	53	48	54
Collinsvile Substation: abovegrade; Collinsville Substation: Site and	014/0000	7/47/0000	144		40	50
ROW restoration	2/1/2028	7/17/2028	144	55	48	56
Proposed Project Summa Min sound level	•					
Min sound level Max sound level	54 68					
Project days	694					
Days above 55 dBA	631					
Percentage of days above 55 dBA	91%					

ng Construction Activitie	es sound Levels at NR2				
verlap Period Start ate			Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
5/1/2026	5/31/2026	26	55	48	56
6/1/2026	7/13/2026	37	63	48	63
7/14/2026	7/31/2026	16	63	48	64
8/1/2026	12/31/2026	132	56	48	57
1/1/2027	1/1/2027	1	57	48	58
1/2/2027	1/13/2027	10	60	48	60
1/14/2027	4/30/2027	92	57	48	58
1/14/202/	4/30/2027	32	37	40	30
5/1/2027	5/18/2027	15	57	48	58
5/19/2027	5/19/2027	1	57	48	58
5/20/2027	5/31/2027	10	58	48	58
6/1/2027	6/14/2027	12	59	48	59
6/15/2027	6/30/2027	14	58	48	58
	verlap Period Start ate 5/1/2026 6/1/2026 7/14/2026 8/1/2027 1/2/2027 1/14/2027 5/19/2027 5/19/2027	ate	Verlap Period Start atte 5/1/2026	Project sound level (Leg db.)	Period Start overlap Period End Date Work days

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
activities	Date	Overtap i enou Enu Dute	Work days	ub.k.j	(M12) (Ecquba)	tever (Eeq ubA)
Collinsvile Substation: abovegrade + Submarine cable + Northern Transition Approach + 500 kV interconnection:						
structure foundation installation + Collinsville Substation PG&E IT Work	7/1/2027	7/15/2027	13	59	48	59
Collinsvile Substation: abovegrade + 230 kV Conductor installation (with helicopter) + Submarine cable + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville	740000		40		40	
Substation PG&EITWork	7/16/2027	7/27/2027	10	62	48	62
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 230 kV Conductor installation (with helicopter) + Collinsville Substation PG&E IT Work	7/28/2027	7/28/2027	1	62	48	62
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 230 kV Conductor installation (with helicopter); 500 kV interconnection: structure installation (with helicopter); 500 kV interconnection:conduc tor installation (with helicopter) + Collinsville Substation PG&E ITWork	7/29/2027	8/14/2027	15	68	48	68
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 500 kV interconnection: structure installation (with helicopter); 500 kV interconnection:conduc tor installation (with helicopter) + Collinsville Substation PG&E IT Work	8/15/2027	8/31/2027	14	67	48	67
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 500 kV interconnection: structure installation (with helicopter); 500 kV interconnection:conduc tor installation (with						
helicopter)	9/1/2027	9/22/2027	19	67	48	67

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Submarine cable + Northern Transition Approach	9/23/2027	9/23/2027	1	57	48	58
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Submarine cable + Northern Transition Approach + 500 kV interconnection:conduc tor installation (with helicopter)	9/24/2027	10/30/2027	32	61	48	62
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Northern Transition Approach + 500 kV interconnection:conduc tor installation (with						
helicopter) Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Northern	10/31/2027	11/18/2027	16	60	48	60
Transition Approach	11/19/2027	11/29/2027	9	57	48	57
Collinsvile Substation:						
abovegrade	11/30/2027	1/31/2028	54	56	48	57
Collinsvile Substation: abovegrade; Collinsville Substation: Site and ROW restoration	2/1/2028	7/17/2028	144	57	48	58
Proposed Project Summa	rt of sound Levels at NR1					
Min sound level	56					
Max sound level	68					
Project days	694					
Days above 55 dBA	694	<u> </u>				
Percentage of days above DBA	100%					

Proposed Project Overlap	ping Construction Activitie	s sound Levels at NR3				
Overlapping constuction		Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Pittsburg Substation Upgrades, Pittsburg Substation staging yard east, Pittsburg Substation staging yard west	5/1/27	6/1/27	27	57	46	57
Pittsburg Substation Upgrades, Pittsburg Substation stagingyard east, Pittsburg Substation stagingyard west, 230 kV						
underground Pittsburg Substation Upgrades, Pittsburg Substation staging yard east, Pittsburg Substation staging yard west, 230 kV underground, 230 kV Southern transition	6/1/27	6/15/27	12	80	46	80
approach Pittsburg Substation Upgrades, Pittsburg Substation staging yard east, Pittsburg Substation staging yard west, 230 kV underground , 230 kV Submarine cable installation, 230 kV Southern transition	6/15/27	7/1/27	14		46	81
approach Pittsburg Substation Upgrades, Pittsburg Substation stagingyard east, Pittsburg Substation stagingyard west, 230 kV Submarine cable installation, 230 kV Southern transition approach	7/1/27 8/23/27	8/23/27	45	81	46	81
Pittsburg Substation Upgrades, Pittsburg Substation staging yard east, Pittsburg Substation staging yard west, 230 kV Southern transition approach	10/31/27	11/30/27	26	63	46	63
Pittsburg Substation Upgrades, Pittsburg Substation staging yard east, Pittsburg Substation staging yard west	11/30/27	5/31/28	158	57	46	57
Proposed Project Summar	t of sound Levels at NR3					
Minimum sound level	57					
Maximum sound lvel	81					
Average sound level	77					
Days over 65 dBA	71					
Percent days over	21%					

Proposed Project Overlan	ping Construction Activitie	es sound Levels at NR1 with	n MM NOI-1			
Overlapping constuction activities		Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site development	5/1/2026	5/31/2026	26	55	48	56
Collinsville Substation: Site development + 12 kV						
distribution	6/1/2026	7/13/2026	37	59	48	59
Collinsville Substation:			-			
Site development +						
Collinsville Substation:						
Below-grade + 12 kV distribution	7/14/2026	7/31/2026	16	61	48	61
Collinsville Substation:	771472020	770172020	10	01	40	01
Below-grade	8/1/2026	1/1/2027	132	57	48	57
Collinsville Substation:						
Below-grade	1/1/2027	1/1/2027	1	57	48	58
Collinsville Substation: Below-grade + Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	1/2/2027	1/13/2027	10	59	48	59
Collinsvile Substation:						
abovegrade + Collinsville Substation PG&E IT Work	1/14/2027	4/30/2027	92	54	48	55
Collinsvile Substation:	1/14/2027	4/30/2027	32	34	40	33
abovegrade + 230 kV overhead: access road + Collinsville Substation						
PG&E IT Work	5/1/2027	5/18/2027	15	55	48	56
Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	5/19/2027	5/19/2027	1	54	48	55
Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation + Collinsville Substation PG&E IT Work	5/20/2027	5/31/2027	10	56	48	57
Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation; 500 kV interconnection: structure foundation installation + Collinsville Substation PG&E IT Work	6/1/2027	6/14/2027	12	57	48	58
		_				
Collinsvile Substation: abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville						
Substation PG&E IT Work	6/15/2027	6/30/2027	14	56	48	57
CALL	5, 15, 2027	5,55,2027	14	1 39	40	. 37

Existing daytime Overlapping construction Overlap Period Start activities Date Overlap Period End Date Work days dBA) (NM2) (Leq dBA)	Combined project and
activities Date Overlap Period End Date Work days dBA) (NM2) (Leg dBA)	existing ambient sound
	level (Leq dBA)
Collinsvile Substation:	
abovegrade + Submarine	
cable + Northern Transition Approach +	
500 kV interconnection:	
structure foundation structure foundation	
installation + Collinsville	
Substation PG&E IT Work 7/1/2027 7/15/2027 13 58	48 58
Outline the Outlet of the	
Collinsvile Substation: abovegrade + 230 kV	
Conductor installation	
(without helicopter) +	
Submarine cable +	
Northern Transition Approach + 500 kV	
interconnection:	
structure foundation structure foundation	
installation + Collinsville Substation PG&E IT Work 7/16/2027 7/27/2027 10 59	48 59
Collinsvile Substation:	58
abovegrade; Northern	
Transition Approach;	
Submarine cable; 230 kV	
Conductor installation (without helicopter) +	
Collinsville Substation	
PG&E IT Work 7/28/2027 7/28/2027 1 59	48 59
Collinsvile Substation:	
abovegrade; Northern	
Transition Approach;	
Submarine cable; 230 kV Conductor installation	
(without helicopter);	
500 kV interconnection:	
structure installation	
(without helicopter); 500 kV	
interconnection:conduc	
tor installation (without	
helicopter) + Collinsville	48 60
Collinsvile Substation:	
abovegrade; Northern	
Transition Approach;	
Submarine cable; 500 kV	
structure installation	
(without helicopter); 500	
kv	
interconnection:conduc tor installation (without	
helicopter) + Collinsville	
Substation PG&E IT Work 8/15/2027 8/31/2027 14 57	48 58
Collinsvile Substation:	
abovegrade; Northern	
Transition Approach;	
Submarine cable; 500 kV interconnection:	
structure installation	
(without helicopter); 500	
W interconnections and us	
interconnection:conduc tor installation (without	
helicopter) 9/1/2027 9/22/2027 19 57	48 57

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Submarine cable + Northern Transition Approach	9/23/2027	9/23/2027	1	56	48	57
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Submarine cable + Northern Transition Approach + 500 kV interconnection:conduc tor installation (without helicopter)	9/24/2027	10/30/2027	32	57	48	58
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Northern Transition Approach + 500 kV interconnection:conduc tor installation (without						
helicopter) Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Northern	10/31/2027	11/18/2027	16	55	48	56
Transition Approach	11/19/2027	11/29/2027	9	54	48	55
Collinsvile Substation:						
abovegrade Collinsvile Substation: abovegrade; Collinsville Substation: Site and	11/30/2027	1/31/2028	54	53	48	54
ROW restoration	2/1/2028	7/17/2028	144	55	48	56
Summary of Proposed Pro	l ject Overlapping Construc	tion Activities sound Level:	s at NR1 with MM NOI-1			
Min sound level	54					
Max sound level	61					
Project days	694					
Days above 55 dBA	538					
Percentage of days above DBA	78%					

Proposed Project Overlap	ping Construction Activitie	es sound Levels at NR2 with	n MM NOI-1			
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site development	5/1/2026	5/31/2026	26	54.60	48	55.5
Collinsville Substation: Site development + 12 kV						
distribution	6/1/2026	7/13/2026	37	62.5	48	62.7
Collinsville Substation: Site development + Collinsville Substation:						
Below-grade + 12 kV distribution	7/14/2026	7/31/2026	16	63.4	48	63.5
Collinsville Substation: Below-grade	8/1/2026	1/1/2027	132	56.1	48	56.7
Collinsville Substation: Below-grade	1/1/2027	1/1/2027	1	57.1	48	57.6
Collinsville Substation: Below-grade + Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	1/2/2027	1/13/2027	10		48	60.0
Collinsvile Substation: abovegrade + Collinsville	1/14/2027	4/30/2027	92	57.1	40	57.6
Substation PG&EIT Work Collinsvile Substation: abovegrade + 230 kV overhead: access road + Collinsville Substation	1/14/2027	4/30/2027	92	57.1	48	57.0
PG&E IT Work	5/1/2027	5/18/2027	15	57.6	48	58.1
Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	5/19/2027	5/19/2027	1	57.1	48	57.6
Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation + Collinsville Substation PG&E IT Work	5/20/2027	5/31/2027	10	58.1	48	58.5
Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation; 500 kV interconnection: structure foundation installation + Collinsville Substation PG&E IT Work	6/1/2027	6/14/2027	12		48	59.2
Collinsvile Substation: abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville						
Substation PG&E IT Work	6/15/2027	6/30/2027	14	58.1	48	58.5

					Existing daytime	Combined project and
Overlapping constuction		Overden Beried Fund Bete	Madedaya	Project sound level (Leq	ambient sound level	existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsvile Substation:						
abovegrade + Submarine cable + Northern						
Transition Approach +						
500 kV interconnection:						
structure foundation						
installation + Collinsville Substation PG&E IT Work	7/1/2027	7/15/2027	13	58.7	48	59.1
CUBSTUTION I CUE II WORK	77 11 2027	771072027	10	00.7	40	50.1
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation						
(without helicopter) + Submarine cable +						
Northern Transition						
Approach + 500 kV						
interconnection:						
structure foundation installation + Collinsville						
Substation PG&E IT Work	7/16/2027	7/27/2027	10	60.2	48	60.5
Collinsvile Substation:						
abovegrade; Northern						
Transition Approach; Submarine cable; 230 kV						
Conductor installation						
(without helicopter) +						
Collinsville Substation	7,00,0007	7/00/0007		50.7	40	00
PG&E IT Work	7/28/2027	7/28/2027	1	59.7	48	60
Collinsvile Substation:						
abovegrade; Northern Transition Approach;						
Submarine cable; 230 kV						
Conductor installation						
(without helicopter); 500 kV interconnection:						
structure installation						
(without helicopter); 500						
kV interconnection:conduc						
tor installation (without						
helicopter) + Collinsville						
Substation PG&E IT Work	7/29/2027	8/14/2027	15	60.1	48	60
Collinsvile Substation:						
abovegrade; Northern Transition Approach;						
Submarine cable; 500 kV						
interconnection:						
structure installation (without helicopter); 500						
kV						
interconnection:conduc						
tor installation (without						
helicopter) + Collinsville Substation PG&E IT Work	8/15/2027	8/31/2027	14	58.3	48	59
Collinsvile Substation:				55.0		
abovegrade; Northern						
Transition Approach;						
Submarine cable; 500 kV						
interconnection: structure installation						
(without helicopter); 500						
kV						
interconnection:conduc						
tor installation (without helicopter)	9/1/2027	9/22/2027	19	57.6	48	58
·p/	3. 1. 2027	0.22.2027	. 10	37.0	1 70	

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation:			•			
abovegrade + 230 kV						
overhead:structure						
installation + Submarine						
cable + Northern						
Transition Approach	9/23/2027	9/23/2027	1	57.1	48	58
Collinsvile Substation:						
abovegrade + 230 kV						
overhead:structure						
installation + Submarine						
cable + Northern						
Transition Approach +						
500 kV						
interconnection:conduc						
tor installation (without						
helicopter)	9/24/2027	10/30/2027	32	57.9	48	58.3
Collinsvile Substation:						
abovegrade + 230 kV						
overhead:structure						
installation + Northern						
Transition Approach +						
500 kV						
interconnection:conduc						
tor installation (without						
helicopter)	10/31/2027	11/18/2027	16	57.1	48	57.6
Collinsvile Substation:						
abovegrade + 230 kV						
overhead:structure						
installation + Northern	44/40/000=	44/00/0007				
Transition Approach Collinsvile Substation:	11/19/2027	11/29/2027	9	56.6	48	57.2
abovegrade	11/30/2027	1/31/2028	54	56.1	48	57
Collinsvile Substation:	11/00/2027	1/01/2020	04	00.1	40	O7
abovegrade; Collinsville						
Substation: Site and						
ROW restoration	2/1/2028	7/17/2028	144	57.1	48	58
	oject Overlapping Construc	ction Activities sound Leve	ls at NR2 with MM NOI-1			
Min sound level	56 64					
Max sound level						
Project days	694					
Days above 55 dBA	694					
Percentage of days	4000					
above DBA	100%					

Proposed Project Overlan	ping Construction Activitie	es sound Levels at NR1 with	n MM NOI-2			
Overlapping constuction activities		Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site development	5/1/2026	5/31/2026	26	45	48	50
Collinsville Substation: Site development + 12 kV						
distribution	6/1/2026	7/13/2026	37	57	48	58
Collinsville Substation:	0, 1, 2020	77 20 20 20	<u> </u>	0.		33
Site development +						
Collinsville Substation:						
Below-grade + 12 kV	7/14/2026	7/31/2026	16	E-7	40	E0
distribution Collinsville Substation:	7/14/2026	//31/2026	16	57	48	58
Below-grade	8/1/2026	12/31/2026	132	45	48	50
Collinsville Substation:						
Below-grade	1/1/2027	1/1/2027	1	46	48	50
Collinsville Substation: Below-grade + Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	1/2/2027	1/13/2027	10	49	48	51
Collinsvile Substation: abovegrade + Collinsville						
Substation PG&E IT Work	1/14/2027	4/30/2027	92	46	48	50
Collinsvile Substation: abovegrade + 230 kV overhead: access road + Collinsville Substation						
PG&E IT Work	5/1/2027	5/18/2027	15	49	48	52
Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	5/19/2027	5/19/2027	1	46	48	50
Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation + Collinsville Substation PG&E IT Work	5/20/2027	5/31/2027	10	52	48	53
Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation; 500 kV interconnection: structure foundation installation + Collinsville Substation PG&E IT Work	6/1/2027	6/14/2027	12	55	48	55
Collinsvile Substation: abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville						
Substation PG&E IT Work	6/15/2027	6/30/2027	14	52	48	54

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
activities	Dute	O terrapi errou Erra Dute	Work days	abrij	(11112) (2eq uBA)	teret (Eeq abit)
Collinsvile Substation: abovegrade + Submarine cable + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville Substation PG&E IT Work	7/1/2027	7/15/2027	13	56	48	57
Collinsvile Substation: abovegrade + 230 kV Conductor installation (with helicopter) + Submarine cable + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville						
Substation PG&E IT Work	7/16/2027	7/27/2027	10	61	48	61
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 230 kV Conductor installation (with helicopter) + Collinsville Substation PG&E IT Work	7/28/2027	7/28/2027	1	61	48	61
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 230 kV Conductor installation (with helicopter); 500 kV interconnection: structure installation (with helicopter); 500 kV interconnection:conduc tor installation (with helicopter) + Collinsville Substation PG&E IT Work	7/29/2027	8/14/2027	15	68	48	68
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 500 kV interconnection: structure installation (with helicopter); 500 kV interconnection:conduc tor installation (with helicopter) + Collinsville Substation PG&E ITWork	8/15/2027	8/31/2027	14	67	48	67
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 500 kV interconnection: structure installation (with helicopter); 500 kV interconnection:conduc tor installation (with helicopter)	9/1/2027	9/22/2027	19	67	48	67

					Establish daubtus	O contribution described and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Submarine cable + Northern Transition Approach	9/23/2027	9/23/2027	1	54	48	55
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Submarine cable + Northern Transition Approach + 500 kV interconnection:conduc tor installation (with helicopter)	9/24/2027	10/30/2027	32	60	48	61
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Northern Transition Approach + 500 kV interconnection:conduc tor installation (with	10/31/2027	11/18/2027	16	60	48	60
helicopter) Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Northern						
Transition Approach Collinsvile Substation:	11/19/2027	11/29/2027	9	49	48	51
abovegrade	11/30/2027	1/31/2028	54	45	48	50
Collinsvile Substation: abovegrade; Collinsville Substation: Site and ROW restoration	2/1/2028	7/17/2028	144	45	48	50
Summary of Proposed Project Overlapping Construction Activities sound Levels at NR1 with MM NOI-2						
Max sound level	68					
Project days	694 173					
Days above 55 dBA Percentage of days above DBA	25%					

Collinaria Substantion:	Proposed Project Overlan	ping Construction Activitie	es sound Levels at NR2 with	n MM NOI-2			
Site development		Overlap Period Start				ambient sound level	existing ambient sound
Collinaville Substation:	Collinsville Substation:						
Site development + 12 kV Sitriculture	· ·	5/1/2026	5/31/2026	26	45	48	50
Delinsville Substation: Selection Se							
Collinsville Substation: Tollinsville Substati	· ·	6/1/2026	7/13/2026	37	62	48	62
Site development + Collinsville Substation: Below-grade + 12W		0, 1, 2020	771072020	<u> </u>			
Below grade + 12 kV Section 7/14/2028 7/31/2028 16 62 48 62 62 62 62 63 63 64 64 64 64 64 64	Site development +						
Description	Collinsville Substation:						
Delinsville Substation: Bellow grade Bellow grade Bellow grade 11/1/2027 11/1/2027 1 51 48 53 Collinsville Substation: Bellow grade 2 Collinsville Substation: Bellow grade 4 Collinsville Substation: Bookgrade 4 Collinsville Substation: Bookgrade 4 Collinsville Substation: Bookgrade 4 Collinsville Substation: Bookgrade 5 Collinsville Substation: Bookgrade 6 Collinsville Substation: Bookgrade 5 Collinsville Substation: Bookgrade 6 Collinsville Substation: Bookgrade 7 Collinsville	Below-grade + 12 kV	7/44/0000	7/04/0000	40		40	
Below-gade 8/1/2026 12/31/2028 132 45 88 50 Collinaville Substation: Below-gade 1/1/2027 1/1/2027 1 51 51 48 53 Collinaville Substation: Below-gade 2/1/2027 1/1/2027 1 51 51 48 53 Collinaville Substation: Below-gade 2/1/2027 1/1/2027 1 5 52 48 54 Collinaville Substation: Bowlegade 4 Collinaville Substation: Bowlegade 5 Collinaville Substation: Bowlegade 6 Collinaville Substation: Bowlegade 6 Collinaville Substation: Bowlegade 7 Collinaville Substation: Bowlegade 8 Collinaville Substation: Bowlegade 9 Collinaville Substation: Bowlegade 9 Collinaville Substation		//14/2026	//31/2026	16	62	48	62
Dollinoville Substation:		8/1/2026	12/31/2026	132	45	48	50
Collinoville Substation: Bethwe grade + Collinoville Substation: Bowegrade + Substation: Bowegrade + Substation: Bowegrade + Substation: Bowegrade + Collinoville Substation: Bowegrade + Collinovile Substation: Bowegrade + Collinoville Substation: Bowegrade + Co	Collinsville Substation:	2: 2: 2,22					
Bellow grade * Collinsville Substation: abovegrade + 230 kV verhead: access road + Collinsville Substation: abovegrade + Collinsville Substation:	Below-grade	1/1/2027	1/1/2027	1	51	48	53
abovegrade - Collinsville Substation:	Collinsville Substation: Below-grade + Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	1/2/2027	1/13/2027	10	52	48	54
abovegrade - Collinsville Substation:							
Substation PG&E IT Work							
Collinsvile Substation: blovegade + 230 kV verhead: access road + Collinsville Substation: 674 (2027) 5/18/2027 15 53 48 54 54 Collinsville Substation: 684 (17 Vork) 5/19/2027 15 53 48 54 54 Collinsville Substation: 684 (17 Vork) 5/19/2027 15 51 48 53 48 54 54 65 (17 Vork) 5/19/2027 5/19/2027 1 51 51 48 53 63 65 (17 Vork) 5/19/2027 5/19/2027 1 51 51 48 53 63 65 (17 Vork) 5/19/2027 5/19/2027 1 51 51 48 53 63 65 (17 Vork) 5/19/2027 5/19/2027 1 51 51 48 53 65 (17 Vork) 5/19/2027 5/19/2027 1 51 51 48 53 65 (17 Vork) 5/19/2027 5/19/2027 1 51 51 48 53 65 (17 Vork) 5/19/2027 5/19/2027 1 51 51 48 53 65 (17 Vork) 5/19/2027 5/19/2027 1 51 51 48 53 65 (17 Vork) 5/19/2027 5/19/2027 1 51 51 48 53 65 (17 Vork) 5/19/2027 5/19/2027 1 51 51 48 53 65 (17 Vork) 5/19/2027 5/19/2027 1 51 51 51 51 51 51 51 51 51 51 51 51 5		1/14/2027	4/30/2027	92	51	48	53
Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work S/19/2027 5/19/2027 1 51 48 53 Collinsvile Substation: abovegrade; 230 kV overhead:structure oundation installation; 230 kV overhead:structure substation PG&E IT Work 5/20/2027 5/31/2027 10 54 48 55 Collinsvile Substation: abovegrade; 230 kV overhead:structure oundation installation; 230 kV overhead:structure oundation oun	Collinsvile Substation: abovegrade + 230 kV overhead: access road + Collinsville Substation						
abovegade + Collinsville Substation PG&E IT Work Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure substation PG&E IT Work Collinsvile Substation: abovegrade; 230 kV overhead:structure substation PG&E IT Work Collinsvile Substation: abovegrade; 230 kV overhead:structure oundation installation; 230 kV overhead:structure oundation problem installation; 230 kV overhead:structure oundation oundation installation; 230 kV overhead:structure oundation oundation installation; 230 kV overhead:structure oundation: abovegrade; 230 kV overhead:structure oundation installation; 230 kV o	PG&E IT Work	5/1/2027	5/18/2027	15	53	48	54
abovegrade; 230 kV overhead:structure (bundation installation; 230 kV overhead:structure) bundation installation; 230 kV overhead:structure coundation installation; 230 kV overhead:structure coundation; 500 kV interconnection: structure foundation nstallation + Collinsville Substation PG&E IT Work 6/1/2027 6/14/2027 12 56 48 57 Collinsville Substation: abovegrade; 230 kV overhead:structure coundation installation; 500 kV interconnection: structure foundation nstallation + Collinsville Substation PG&E IT Work 6/1/2027 6/14/2027 12 56 48 57 Collinsville Substation: abovegrade; Northern fransition Approach + 500 kV interconnection: structure foundation nstallation + Collinsville	Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	5/19/2027	5/19/2027	1	51	48	53
abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation; 500 kV interconnection: structure foundation installation + Collinsville Substation PG&EITWork Collinsvile Substation: abovegrade + Northern fransition Approach + 500 kV interconnection: structure foundation installation + Collinsville Collinsvile Substation: abovegrade + Northern fransition Approach + 500 kV interconnection: structure foundation installation + Collinsville	Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation + Collinsville Substation PG&E IT Work	5/20/2027	5/31/2027	10	54	48	55
Collinsvile Substation: abovegrade + Northern fransition Approach + 500 kV interconnection: structure foundation installation + Collinsvile	Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation; 500 kV interconnection: structure foundation installation + Collinsville Substation PG&E IT Work	6/1/2027	6/14/2027	12	56	48	57
	Collinsvile Substation: abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation						
	Substation PG&E IT Work	6/15/2027	6/30/2027	14	54	48	55

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
			,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(
Collinsvile Substation: abovegrade + Submarine cable + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville Substation PG&E IT Work	7/1/2027	7/15/2027	13	56	48	56
Collinsvile Substation: abovegrade + 230 kV Conductor installation (with helicopter) + Submarine cable + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville						
Substation PG&E IT Work	7/16/2027	7/27/2027	10	62	48	62
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 230 kV Conductor installation (with helicopter) + Collinsville Substation PG&E IT Work	7/28/2027	7/28/2027	1	62	48	62
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 230 kV Conductor installation (with helicopter); 500 kV interconnection: structure installation (with helicopter); 500 kV interconnection:conduc tor installation (with helicopter) + Collinsville Substation PG&E IT Work	7/29/2027	8/14/2027	15	68	48	68
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 500 kV interconnection: structure installation (with helicopter); 500 kV interconnection:conduc tor installation (with helicopter) + Collinsville Substation PG&E IT Work	8/15/2027	8/31/2027	14	67	48	67
Collinsvile Substation: abovegrade; Northern Transition Approach; Submarine cable; 500 kV interconnection: structure installation (with helicopter); 500 kV interconnection:conduc tor installation (with helicopter)	9/1/2027	9/22/2027	19	67	48	67

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Mark days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Submarine	Date	Overtap Period End Date	Work uays	UDA)	(NM2) (Leq ubA)	level (Leq ubA)
cable + Northern Transition Approach	9/23/2027	9/23/2027	1	51	48	53
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Submarine cable + Northern Transition Approach + 500 kV interconnection:conduc tor installation (with						
helicopter)	9/24/2027	10/30/2027	32	60	48	60
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Northern Transition Approach + 500 kV interconnection:conduc tor installation (with helicopter)	10/31/2027	11/18/2027	16	60	48	60
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Northern						
Transition Approach	11/19/2027	11/29/2027	9	49	48	51
Collinsvile Substation: abovegrade	11/30/2027	1/31/2028	54	45	48	50
Collinsvile Substation: abovegrade; Collinsville Substation: Site and ROW restoration	2/1/2028	7/17/2028	144	45	48	50
Max sound level	68					
Project days	694					
Days above 55 dBA	185					
Percentage of days above DBA	27%					

Collinomia Substation: Collinomia Substation: Sriv2020 Sr31/2020 Sr31	Proposed Project Overlap	pping Construction Activiti	es sound Levels at NR1 wit	h MM NOI-1 and MM NOI-2	2		
Site development	Overlapping constuction activities		Overlap Period End Date	Work days		ambient sound level	existing ambient sound
Collinaville Substation: Site development = 12 M distribution = 12							
Site development + 12 kV distribution		5/1/2026	5/31/2026	26	45.20	48	49.8
distribution							
Site development + Collinsville Substation: Below-grade + 12W distribution	distribution	6/1/2026	7/13/2026	37	57.1	48	57.6
Collinopile Substation: Betwer gade = 12 kV	Collinsville Substation:						
Bellow grade + 12 kV Sinth Substation: S	Site development +						
Distribution							
Collinaville Substation	-	7/14/2026	7/31/2026	16	57 5	48	58.0
Below-gade 8/1/2026 1/1/2027 13 47.2 48 50.6 Collinaville Substation: Below garde 1/1/2027 1/1/2027 1 47.2 48 50.6 Collinaville Substation: Below-gade 2 Collinaville Substation: Below-gade 2 Collinaville Substation: Below-gade 2 Collinaville Substation: Below-gade 3 Collinaville Substation: Below-gade 3 Collinaville Substation: Below-gade 4 Collinaville Substation: Below-gade 5 Collinaville Substation: Below-gade 5 Collinaville Substation: Below-gade 5 Collinaville Substation: Below-gade 5 Collinaville Substation: Below-gade 6 Collinaville Substation: Below-gade 7 Collinaville Substation: Below-gade 6 Collinaville Substation: Below-		771472020	770172020	10	07.0	40	00.0
Below grade Collinorite Substation: Below grade Collinorite Substation: Below grade Collinorite Substation: Bolow grade Collinorite Substation Collinorite Substation Collinorite Substation Collinorite Substation Collinorite S	Below-grade	8/1/2026	1/1/2027	132	46.7	48	50.4
Collinsville Substation: Bubetation: Below-grade + Collinsville Substation PG&ETTWork	Collinsville Substation:						
Bellow-grade + Collinsville Substation: abovegrade + Collinsville Substation FASE IT Work	Below-grade	1/1/2027	1/1/2027	1	47.2	48	50.6
abovegade + Collinsville Substation PS&EITWork Collinsville Substation: abovegade + 230 kV overhead: Scress road + Collinsville Substation: abovegade + 230 kV overhead: Scress road + Collinsville Substation: abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Korhern Franstion Approach + Sol KV Horter abovegade + Collinsville Butter abovegade + Collinsville Butter aboveg	Collinsville Substation: Below-grade + Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work		1/13/2027	10	48.7	48	51.4
Collinsville Substation: abovegrade + 230 KV vowerhead: access road + Collinsville Substation: PASE IT Work	Collinsvile Substation: abovegrade + Collinsville						
abovegrade + 230 N		1/14/2027	4/30/2027	92	44.3	48	49.5
Collinsvile Substation: abovegrade + Collinsvile Substation PG&E IT Work Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation + Collinsville Substation PG&E IT Work Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation + Collinsville Substation PG&E IT Work Collinsvile Substation: abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation installation - Collinsville Substation: abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation installation - Collinsville	abovegrade + 230 kV overhead: access road + Collinsville Substation						
abovegrade + Collinsville Substation PG&E IT Work Collinsville Substation: abovegrade; 230 K overhead:Structure foundation installation; 230 KV overhead:Structure installation + Collinsville Substation PG&E IT Work Collinsville Substation: abovegrade; 230 KV overhead:Structure installation of Collinsville Substation PG&E IT Work Collinsville Substation: abovegrade; 230 KV overhead:Structure foundation installation; 230 kV overhead:Structure foundation installation; 230 kV overhead:Structure installation; 500 kV interconnection: structure foundation installation - Collinsville Substation PG&E IT Work Collinsville Substation: abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation installation - Collinsville Substation: abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation installation - Collinsville	PG&E IT Work	5/1/2027	5/18/2027	15	48.5	48	51.3
abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation + Collinsville Substation: abovegrade; 230 kV overhead:structure installation; 230 kV overhead:structure foundation installation; 230 kV overhead:structure foundation installation; 230 kV overhead:structure foundation; 230 kV overhead:structure foundation; 230 kV overhead:structure foundation; 230 kV overhead:structure foundation; 250 kV interconnection: structure foundation foundation installation; 250 kV interconnection: structure foundation foundation foundation foundation foundation; 250 kB for foundation; 250 kB foundation; 250	Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work		5/19/2027	1	44.3	48	49.5
abovegrade; 230 kV overhead: structure foundation installation; 230 kV overhead: structure installation; 500 kV interconnection: structure foundation installation + Collinsville Substation PG&E IT Work Collinsvile Substation: abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville Interconnection: structure foundation installation + Collinsville	Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation + Collinsville Substation PG&E IT Work	5/20/2027	5/31/2027	10	51.4	48	53.0
Collinsvile Substation: abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation installation + Collinsville	abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation; 500 kV interconnection: structure foundation installation + Collinsville	6/1/2027	6/14/2027	12	54.3	48	55.2
	Collinsvile Substation: abovegrade + Northern Transition Approach + 500 kV interconnection: structure foundation	0.2.20	0.2.0.20				3312
оппоситителя и модет — рубот	installation + Collinsville Substation PG&E IT Work	6/15/2027	6/30/2027	14	52.1	48	53.5

					Existing daytime	Combined project and
Overlapping constuction		Overden Beried Fund Bete	Moderators	Project sound level (Leq	ambient sound level	existing ambient sound
activities	Date	Overlap Period End Date	work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsvile Substation:						
abovegrade + Submarine						
cable + Northern Transition Approach +						
500 kV interconnection:						
structure foundation						
installation + Collinsville Substation PG&E IT Work	7/1/2027	7/15/2027	13	55.6	48	56.3
CUBSTUTION I CUE II WORK	77 11 2027	7710/2027	13	00.0	40	00.0
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation						
(without helicopter) + Submarine cable +						
Northern Transition						
Approach + 500 kV						
interconnection:						
structure foundation installation + Collinsville						
Substation PG&E IT Work	7/16/2027	7/27/2027	10	57.3	48	57.8
Collinsvile Substation:						
abovegrade; Northern						
Transition Approach; Submarine cable; 230 kV						
Conductor installation						
(without helicopter) +						
Collinsville Substation	7/20/2027	7/20/2027	1	FC 0	40	E-7
PG&E IT Work	7/28/2027	7/28/2027	1	56.9	48	57
Collinsvile Substation: abovegrade; Northern						
Transition Approach;						
Submarine cable; 230 kV						
Conductor installation						
(without helicopter); 500 kV interconnection:						
structure installation						
(without helicopter); 500						
kV interconnection:conduc						
tor installation (without						
helicopter) + Collinsville						
Substation PG&E IT Work	7/29/2027	8/14/2027	15	57.7	48	58
Collinsvile Substation: abovegrade; Northern						
Transition Approach;						
Submarine cable; 500 kV						
interconnection: structure installation						
(without helicopter); 500						
kV						
interconnection:conduc						
tor installation (without helicopter) + Collinsville						
Substation PG&E IT Work	8/15/2027	8/31/2027	14	54.8		
Collinsvile Substation:						
abovegrade; Northern						
Transition Approach;						
Submarine cable; 500 kV interconnection:						
structure installation						
(without helicopter); 500						
kV						
interconnection:conduc tor installation (without						
helicopter)	8/15/2027	9/22/2027	19	54.7	48	56
. ,						

Overlapping constuction	Overlap Period Start			Project sound level (Leq	Existing daytime	Combined project and existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Submarine cable + Northern Transition Approach	9/23/2027	9/23/2027	1	53.6	48	55
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Submarine cable + Northern Transition Approach + 500 kV interconnection:conduc tor installation (without helicopter)	9/24/2027	10/30/2027	32	55.2	48	56.0
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Northern Transition Approach + 500 kV interconnection:conduc tor installation (without	5/24/2027	10/30/2027	32	33.2	40	30.0
helicopter)	10/31/2027	11/18/2027	16	50.9	48	52.7
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + Northern Transition Approach	11/19/2027	11/29/2027	9	47.7	48	50.9
Collinsvile Substation:						
abovegrade	11/30/2027	1/31/2028	54	43.3	48	49
Collinsvile Substation: abovegrade; Collinsville Substation: Site and ROW restoration	2/1/2028	7/17/2028	144	51.5	48	53
Min sound level	49					
Max sound level	58					
Days above 55 dBA	143					
Percentage of days above DBA	21%					

Proposed Project Overlap	ping Construction Activitie	es sound Levels at NR2 with	h MM NOI-1 and MM NOI-2	2		
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:		_,_,				
Site development	5/1/2026	5/31/2026	26	45	48	50
Collinsville Substation: Site development + 12 kV						
distribution	6/1/2026	7/13/2026	37	62	48	62
Collinsville Substation: Site development + Collinsville Substation:						
Below-grade + 12 kV distribution	7/14/2026	7/31/2026	16	62	48	62
Collinsville Substation: Below-grade	8/1/2026	1/1/2027	132	46	48	50
Collinsville Substation: Below-grade	1/1/2027	1/1/2027	102	52	48	
Collinsville Substation: Below-grade + Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	1/2/2027	1/13/2027	10	53	48	54
Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	1/14/2027	4/30/2027	92	52	48	53
Collinsvile Substation: abovegrade + 230 kV overhead: access road + Collinsville Substation						
PG&E IT Work	5/1/2027	5/18/2027	15	53	48	54
Collinsvile Substation: abovegrade + Collinsville Substation PG&E IT Work	5/19/2027	5/19/2027	1	52	48	53
Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation + Collinsville Substation PG&E IT Work	5/20/2027	5/31/2027	10	55	48	55
Collinsvile Substation: abovegrade; 230 kV overhead:structure foundation installation; 230 kV overhead:structure installation; 500 kV interconnection: structure foundation installation + Collinsville Substation PG&E IT Work	6/1/2027	6/14/2027	12	56	48	57
Collinsvile Substation: abovegrade + Northern Transition Approach + 500 KV interconnection: structure foundation installation + Collinsville		21 2 3 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				
Substation PG&E IT Work	6/15/2027	6/30/2027	14	55	48	55

					Existing daytime	Combined project and
Overlapping constuction				Project sound level (Leq	ambient sound level	existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsvile Substation:						
abovegrade + Submarine						
cable + Northern Transition Approach +						
500 kV interconnection:						
structure foundation						
installation + Collinsville	7/4/0007	7/15/0007	10	50	40	
Substation PG&E IT Work	7/1/2027	7/15/2027	13	56	48	57
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation						
(without helicopter) +						
Submarine cable + Northern Transition						
Approach + 500 kV						
interconnection:						
structure foundation						
installation + Collinsville Substation PG&E IT Work	7/16/2027	7/27/2027	10	58	48	59
Collinsvile Substation:	771072027	772772027	10		40	30
abovegrade; Northern						
Transition Approach;						
Submarine cable; 230 kV						
Conductor installation (without helicopter) +						
Collinsville Substation						
PG&E IT Work	7/28/2027	7/28/2027	1	58	48	58
Collinsvile Substation:						
abovegrade; Northern						
Transition Approach;						
Submarine cable; 230 kV Conductor installation						
(without helicopter);						
500 kV interconnection:						
structure installation (without helicopter); 500						
kV						
interconnection:conduc						
tor installation (without						
helicopter) + Collinsville Substation PG&E IT Work	7/29/2027	8/14/2027	15	58	48	59
Collinsvile Substation:						
abovegrade; Northern						
Transition Approach;						
Submarine cable; 500 kV interconnection:						
structure installation						
(without helicopter); 500						
kV						
interconnection:conduc tor installation (without						
helicopter) + Collinsville						
Substation PG&E IT Work	8/15/2027	8/31/2027	14	55	48	55
Collinsvile Substation:						
abovegrade; Northern						
Transition Approach; Submarine cable; 500 kV						
interconnection:						
structure installation						
(without helicopter); 500						
kV interconnection:conduc						
tor installation (without						
helicopter)	8/15/2027	9/22/2027	19	53	48	54

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Madedaya	Project sound level (Leq dBA)	ambient sound level (NM2) (Leq dBA)	existing ambient sound level (Leq dBA)
Collinsvile Substation:	Date	Overtap Period End Date	work days	uba)	(NM2) (LequbA)	level (Leq ubA)
abovegrade + 230 kV						
overhead:structure						
installation + Submarine						
cable + Northern						
Transition Approach	9/23/2027	9/23/2027	1	52	48	53
Collinsvile Substation:						
abovegrade + 230 kV						
overhead:structure						
installation + Submarine						
cable + Northern						
Transition Approach +						
500 kV						
interconnection:conduc						
tor installation (without helicopter)	9/24/2027	10/30/2027	32	54	48	55
Collinsvile Substation:	5.2					
abovegrade + 230 kV						
overhead:structure						
installation + Northern						
Transition Approach +						
500 kV						
interconnection:conduc						
tor installation (without						
helicopter)	10/31/2027	11/18/2027	16	52	48	53
Collinsvile Substation:						
abovegrade + 230 kV						
overhead:structure installation + Northern						
Transition Approach	11/19/2027	11/29/2027	9	49	48	52
Collinsvile Substation:			-			
abovegrade	11/30/2027	1/31/2028	54	46	48	50
Collinsvile Substation:						
abovegrade; Collinsville						
Substation: Site and						
ROW restoration	2/1/2028	7/17/2028	144	52	48	53
Min sound level	50					
Max sound level	62					
Project days	694					
Days above 55 dBA	104					
Percentage of days						
above DBA	15%					

Alternative 1 Activities so	und Levels at NR1							
Component and activity		End date	Distance to Component	Project sound (Leg dBA)	Incortion loss (dDA)	Project sound after insertion loss (Leq dBA)	Existing ambient daytime sound levels	Combined project activity and existing ambient sound levels (Leq dBA)
Collinsville Substation:	Start date	End date	(feet)	Project Sound (Leq abA)	insertion loss (dbA)	insertion toss (Leq aba)	(NM2) (Leq abA)	(Leq abA)
Site developent	5/1/26	8/29/26	9200	47		47	48	51
Colinsville Substation:	3/1/26	0/29/20	9200	47		4/	40	31
Below-grade	8/14/26	2/6/27	9200	48		48	48	51
Collinsvile Substation:	0/14/20	2/0/2/	3200	40		40	40	31
abovegrade	1/23/27	2/15/28	9200	45		45	48	50
230 kV overhead: access	1/20/2/	2/10/20	3200	40		40	40	50
road	5/1/27	5/22/27	4690	46		46	48	50
2310kV	5/1/2/	GIZZIZI	4030	40		40	40	50
overhead:structure								
foundation installation	5/20/27	8/3/27	4690	49		49	48	51
232 kV								
overhead:structure								
installation	8/3/27	10/19/27	4690	45		45	48	50
230 kV Conductor								
installation (with								
helicopter)	10/20/27	12/6/27	4690	59		59	48	59
230 kV Conductor								
installation (without								
helicopter)	10/20/27	12/6/27	4690	49		49	48	52
230 kV submarine								
segment	7/1/27	10/31/27	2750	63	10	53	48	54
Collinsville Substation:								
Site and ROW	0/4/00	7,47,00	0000	40		40	40	40
restoration	2/1/28	7/17/28	9200	43		43	48	49
Norhtern Transition	6/15/27	11/30/27	10400	40	10	30	48	48
Apporach	6/15/2/	11/30/2/	10400	40	10	30	48	48
500 kV interconnection: structure foundation								
installation	5/17/27	6/11/27	9450	44		44	48	49
501 kV interconnection:	3/1//2/	0/11/2/	5400			44	40	40
structure installation								
(with helicopter)	1/18/28	2/25/28	9450	59		59	48	59
502 kV interconnection:								
structure installation								
(without helicopter)	1/18/28	2/25/28	9450	39		39	48	49
503 kV								
interconnection:conduc							ĺ	
tor installation (with								
helicopter)	1/18/28	2/25/28	9450	53		53	48	54
503 kV								
interconnection:conduc							ĺ	
tor installation (without							ĺ	1
helicopter)	1/18/28	2/25/28	9450	41		41	48	
12 kV distribution	6/1/26	7/16/26	8850	45		45	48	50
PG&E IT Work at								
Collinsville Substation	1/1/27	8/31/27	9200	42		42	48	49

	ı	I	I	I	ı	ı	I	1
Alternative 1 Activities so	und Levels at NR1 with MM	1 NOI-2						
THE	and Edviced Civil William							Combined project
			Distance to Commence			Duning to a second often	Existing ambient	activity and existing
Component and activity	Start date	End date	Distance to Component (feet)	Project sound (Leq dBA)	Insertion loss (dRA)	Project sound after insertion loss (Leg dBA)	daytime sound levels	ambient sound levels (Leg dBA)
Collinsville Substation:	Start date	Liid date	(reet)	Project Sound (Led abk)	insertion toss (uDA)	insertion toss (Leq ubA)	(NHZ) (LequbA)	(LequbA)
Site developent	5/1/26	8/29/26	9200	47	10	37	48	48
Colinsville Substation:								
Below-grade	8/14/26	2/6/27	9200	48	10	38	48	49
Collinsvile Substation:								
abovegrade	1/23/27	2/15/28	9200	45	10	35	48	48
230 kV overhead: access								
road	5/1/27	5/22/27	4690	46		46	48	50
2310kV								
overhead:structure								
foundation installation	5/20/27	8/3/27	4690	49		49	48	51
232 kV								
overhead:structure installation	0/0/07	10/19/27	4690	45		45	48	50
	8/3/27	10/19/2/	4690	45		45	48	50
230 kV Conductor installation (with								
helicopter)	10/20/27	12/6/27	4690	60		60	48	60
230 kV Conductor	10/20/2/	12/0/2/	4000				40	00
installation (without								
helicopter)	10/20/27	12/6/27	4690	54		54	48	55
230 kV submarine								
segment	7/1/27	10/31/27	2750	63	10	53	48	54
Collinsville Substation:								
Site and ROW								
restoration	2/1/28	7/17/28	9200	43		43	48	49
Norhtern Transition								
Apporach	6/15/27	11/30/27	10400	40	10	30	48	48
500 kV interconnection:								
structure foundation	F. (4.7.10.7	0/44/07	0.450				40	40
installation	5/17/27	6/11/27	9450	44		44	48	49
501 kV interconnection: structure installation								
(with helicopter)	1/18/28	2/25/28	9450	59		59	48	59
502 kV interconnection:	1/10/20	2/20/20	5450	- 55			40	55
structure installation								
(without helicopter)	1/18/28	2/25/28	9450	39		39	48	49
503 kV								
interconnection:conduc								
tor installation (with								
helicopter)	1/18/28	2/25/28	9450	53		53	48	54
503 kV								
interconnection:conduc								
tor installation (without								
helicopter)	1/18/28	2/25/28	9450	41		41	48	49
12 kV distribution	6/1/26	7/16/26	8850	45		45	48	50
PG&EIT Work at	4/4/07	0/04/07	0000	40			40	40
Collinsville Substation	1/1/27	8/31/27	9200	42	10	32	48	48

Component and activity Sent date End date (etc) Project sound (leq qill.A) Invanion loss (dis.) Invanion loss (etc) (h2) (leq qill.A) Invanion loss (dis.) Invanion loss (leq qill.A) Invanion loss (Alternative 1 Activities so	und Levels at NR2a1							
Collinary III Substation:			F-11-1-1			la de la contraction de la con		daytime sound levels	activity and existing ambient sound levels
See development		Start date	End date	(feet)	Project sound (Leq dBA)	Insertion loss (dBA)	insertion loss (Leq dBA)	(NM2) (Leq dBA)	(Led dRA)
Colimental Substation:		404.40	40000	F400	50		50	20	50
Beloweg pade		46143	46263	5400	52		52	30	52
Cellinenie Subdation: above gade 4610 4678 5400 50 50 50 30 50 200 Worehead access froad 46508 46509 5560 45 45 45 30 45 2310W overhead structure fluundation installation 46502 46602 5560 47 47 47 30 47 230 Worehead structure overhead structure fluundation installation 46502 46609 5560 47 47 47 30 47 230 Worehead structure installation 46602 46679 5560 44 44 44 30 44 230 Worehead structure installation With Helicopteri With Hel		400.40	40404	5400				20	50
abovegage		46248	46424	5400	53		53	30	53
200 Worehead: access 46508		46410	46700	5400	50		50	20	50
Tread		40410	40736	3400	30		30	30	30
2319W 2		46508	46529	5560	45		45	30	45
Overheadstructure		40000	40023	3300	40		40	50	40
	1 1								
overheadstructure installation		46527	46602	5560	47		47	30	47
Installation	232 kV								
230 KV Conductor	overhead:structure								
Installation (with helicopter)	installation	46602	46679	5560	44		44	30	44
helicopter 46680 46727 5560 58 58 30 58 20	230 kV Conductor								
230 KV Conductor Installation (without helicopter)	installation (with								
Installation (without helicopter)	helicopter)	46680	46727	5560	58		58	30	58
Pelicopter 46880									
230 kV submarine 36569 46691 10400 52 10 42 30 42 30 42 30 42 30 42 30 42 30 42 30 42 30 42 30 42 30 42 30 42 30 42 30 42 30 43 30 49 30 49 30 49 30 49 30 49 30 49 30 49 30 49 30 40 49 30 40 49 30 40 49 30 40 49 49 30 40 49 49 49 49 49 49 4									
Segment 46569 46691 10400 52 10 42 30 42	· · · · · · · · · · · · · · · · · · ·	46680	46727	5560	48		48	30	48
Collinsville Substation: Site and ROW Testoration 46784 46951 9200 48 48 30 49 49 30 49 49 30 49 49 49 49 49 49 49 4									
Site and ROW restoration		46569	46691	10400	52	10	42	30	42
Restoration 46784 46951 9200 48 48 30 49 Noritern Transition Apporach 46653 46721 10400 52 10 42 30 42 500 kV interconnection: structure foundation installation 46524 46549 10950 43 43 30 43 501 kV interconnection: structure installation (with helicopter) 46770 46808 10950 57 57 30 57 502 kV interconnection: structure installation (without helicopter) 46770 46808 10950 38 38 30 38 503 kV interconnection:conductor installation (with helicopter) 46770 46808 10950 51 51 30 51 503 kV interconnection:conductor installation (with helicopter) 46770 46808 10950 51 51 30 51 503 kV interconnection:conductor installation (without helicopter) 46770 46808 10950 39 39 30 40 12kV distribution 4674 46219 5870 49 49 30 49 PG&ETI Work at 46770 4881 49 30 49 PG&ETI Work at 46770 4									
Norhtern Transition		46704	46051	0200	40		40	20	40
Apporach 46553 46721 10400 52 10 42 30 42		40704	40331	3200	40		40	30	40
Sol kV interconnection: structure foundation Installation		46553	<i>1</i> 6721	10400	52	10	//2	30	12
Structure foundation Installation 46524 46549 10950 43 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 30		40000	40721	10400	32	10	72	50	72
Installation									
Structure installation (with helicopter) 46770 46808 10950 57 57 30 57 57 30 57 50 24 24 24 24 24 24 24 2		46524	46549	10950	43		43	30	43
Structure installation (with helicopter) 46770 46808 10950 57 57 30 57 57 30 57 50 24 24 24 24 24 24 24 2									
S02 kV interconnection: structure installation (without helicopter)	structure installation								
Structure installation (without helicopter) 46770 46808 10950 38 38 30 38 38 30 38 38	(with helicopter)	46770	46808	10950	57		57	30	57
(without helicopter) 46770 46808 10950 38 38 30 38 503 kV interconnection:conduc tor installation (with helicopter) 46770 46808 10950 51 51 30 51 503 kV interconnection:conduc tor installation (without helicopter) 46770 46808 10950 39 39 30 40 12 kV distribution 46174 46219 5870 49 49 30 49 PG&E ITWork at 9 49 30 49	502 kV interconnection:								
S03 kV Interconnection:conduc tor installation (with helicopter)	structure installation								
Interconnection:conduc	(without helicopter)	46770	46808	10950	38		38	30	38
tor installation (with helicopter) 46770 46808 10950 51 51 30 51 503 kV Interconnection:conduc tor installation (without helicopter) 46770 46808 10950 39 39 30 40 12 kV distribution 46174 46219 5870 49 49 30 49 PG&EITWork at									
helicopter 46770 46808 10950 51 51 30 51 503 51 503 W									
503 kV interconnection:conduc tor installation (without helicopter) 46770 46808 10950 39 39 30 40 12 kV distribution 46174 46219 5870 49 49 30 49 PG&EITWOrk at 9 49 30 49									
Interconnection:conduc		46770	46808	10950	51		51	30	51
tor installation (without helicopter) 46770 46808 10950 39 39 30 40 12 kV distribution 46174 46219 5870 49 49 30 49 PG&EITWork at									
helicopter) 46770 46808 10950 39 39 30 40 12 kV distribution 46174 46219 5870 49 49 30 49 PG&E ITWork at 9 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40								ĺ	
12 kV distribution 46174 46219 5870 49 49 30 49 PG&E ITWorkat		40770	40000	10050	20		20		40
PG&EITWorkat PG									
		401/4	46219	3870	49		49	30	49
	Collinsville Substation	46388	46630	5400	47		47	10	51

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Alta annuali an di Antini dali annuali		11111010						
Alternative 1 Activities so	und Levels at NR2a1 with f	MM NOI-2						
							Existing ambient	Combined project activity and existing
			Distance to Component			Project sound after	daytime sound levels	ambient sound levels
Component and activity	Start date	End date	(feet)	Project sound (Leq dBA)	Insertion loss (dBA)	insertion loss (Leq dBA)	(NM2) (Leq dBA)	(Leq dBA)
Collinsville Substation:								
Site developent	46143	46263	5400	52	10	42	30	42
Colinsville Substation:								
Below-grade	46248	46424	5400	53	10	43	30	43
Collinsvile Substation:								
abovegrade	46410	46798	5400	50	10	40	30	40
230 kV overhead: access								
road	46508	46529	5560	45		45	30	45
2310kV								
overhead:structure								
foundation installation	46527	46602	5560	47		47	30	47
232 kV								
overhead:structure								
installation	46602	46679	5560	44		44	30	44
230 kV Conductor								
installation (with								
helicopter)	46680	46727	5560	58		58	30	58
230 kV Conductor								
installation (without								
helicopter)	46680	46727	5560	52		52	30	52
230 kV submarine								
segment	46569	46691	10400	52	10	42	30	42
Collinsville Substation:								
Site and ROW								
restoration	46784	46951	9200	48		48	30	49
Norhtern Transition								
Apporach	46553	46721	10400	52	10	42	30	42
500 kV interconnection:								
structure foundation								
installation	46524	46549	10950	43		43	30	43
501 kV interconnection:								
structure installation								
(with helicopter)	46770	46808	10950	57		57	30	57
502 kV interconnection:								
structure installation								
(without helicopter)	46770	46808	10950	38		38	30	38
503 kV								
interconnection:conduc								
tor installation (with								
helicopter)	46770	46808	10950	51		51	. 30	51
503 kV								
interconnection:conduc								
tor installation (without								
helicopter)	46770	46808	10950	39		39		
12 kV distribution	46174	46219	5870	49		49	30	49
PG&E IT Work at								
Collinsville Substation	46388	46630	5400	47	10	37	48	48

Alt 1 Overlapping Constru	iction Activities sound Leve	els at NR1				
Overlapping constuction activities		Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site developent Collinsville Substation:	5/1/2026	5/31/2026	26	47	48	51
Site developent + 12 kV distribution	6/1/2026	7/15/2026	39	54	48	55
Collinsville Substation:	7/16/2026	0/12/2026	25	47	40	E4
Site developent Collinsville Substation:	7/16/2026	8/13/2026	25	47	48	51
Site developent + Colinsville Substation: Below-grade	8/14/2026	8/28/2026	13	51	48	53
Colinsville Substation: Below-grade	8/29/2026	12/31/2026	107	48	48	51
Colinsville Substation: Below-grade + PG&E IT work at Collinsville Substation	1/1/2027	1/22/2027	19		48	52
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT work at Collinsville Substation	1/23/2027	2/5/2027	12		48	53
Collinsvile Substation: abovegrade + PG&E IT work at Collinsville						
Substation	2/6/2027	4/30/2027	72	47	48	51
Collinsvile Substation: abovegrade + 230 kV overhead: access road + PG&E IT work at Collinsville Substation	5/1/2027	5/16/2027	13	50	48	52
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation + PG&E IT work at Collinsville Substation	5/17/2027	5/19/2027	3	51	48	52
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville	5,00,000	5/04/0007			40	5.4
Substation Collinsvile Substation:	5/20/2027	5/21/2027	2	53	48	54
abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation	5/22/2027	6/10/2027	17	52	48	53
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + PG&E IT work at						
Collinsville Substation	6/11/2027	6/14/2027	3	51	48	53

				•	Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	6/15/2027	6/30/2027	14	51	48	53
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	7/1/2027	8/2/2027	28	55	48	56
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	8/3/2027	8/31/2027	25	54	48	55
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach	9/1/2027	10/18/2027	41	54	48	55
Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	10/19/2027	10/19/2027	1	54	48	55
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/2027	10/30/2027	10	60	48	60
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/2027	11/29/2027	25	59	48	60
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter)	11/30/2027	12/5/2027	5	59	48	60
Collinsvile Substation: abovegrade	12/6/2027	1/17/2028	37	45	48	50
Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	1/18/2028	1/31/2028	12	60	48	60
neucopter)	1/18/2028	1/31/2028	12	L 60	48	60

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	ambient sound level (NM2) (Leq dBA)	existing ambient sound level (Leq dBA)
Collinsvile Substation:						
abovegrade + Collinsville						
Substation: Site and						
ROW restoration + 500						
kV interconnection:						
structure installation						
(without helicopter) + 500 kV						
interconnection:conduc						
tor installation (without						
helicopter)	2/1/2028	2/14/2028	12	60	48	60
Collinsville Substation:						
Site and ROW						
restoration + 500 kV						
interconnection:						
structure installation						
(without helicopter) +						
500 kV						
interconnection:conduc						
tor installation (without helicopter)	2/15/2028	2/24/2028	9	60	48	60
Collinsville Substation:	2/13/2026	2/24/2028	3	00	40	00
Site and ROW						
restoration	2/25/2028	7/17/2028	123	43	48	49
Min sound level	49					
Max sound level	60					
Project days	693					
Days above 55 dBA	101					
Percentage of days						
above DBA	15%	1		1		

Alt 1 Overlapping Constru	action Activities sound Leve	ls at NR2				
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site developent Collinsville Substation:	5/1/2026	5/31/2026	26	52	30	52
Site developent + 12 kV distribution	6/1/2026	7/15/2026	39	54	30	54
Collinsville Substation: Site developent	7/16/2026	8/13/2026	25	52	30	52
Collinsville Substation: Site developent + Colinsville Substation:						
Below-grade Colinsville Substation: Below-grade	8/14/2026 8/29/2026	8/28/2026 12/31/2026	13	55	30	55
Colinsville Substation: Below-grade + PG&E IT work at Collinsville Substation	1/1/2027	1/22/2027	197		30	54
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT work at Collinsville						
Substation Collinsvile Substation:	1/23/2027	2/5/2027	12	55	30	55
abovegrade + PG&E IT work at Collinsville	2/6/2027	4/30/2027	72	51	30	51
Substation Collinsvile Substation: abovegrade + 230 kV overhead: access road + PG&E IT work at	2/0/2027	4/30/2027	/2	51	30	51
Collinsville Substation	5/1/2027	5/16/2027	13	52	30	52
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation + PG&E IT work at Collinsville Substation	5/17/2027	5/19/2027	3	53	30	53
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation	5/20/2027	5/21/2027	2	54	30	54
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation	5/22/2027	6/10/2027	17		30	53
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + PG&E IT work at Collinsville Substation	6/11/2027	6/14/2027	3			

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	6/15/2027	6/30/2027	14	53	30	53
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	7/1/2027	8/2/2027	28	53	30	53
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	8/3/2027	8/31/2027	25	53	30	53
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition						
Apporach Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	9/1/2027	10/18/2027	41		30	52
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/2027	10/30/2027	10		30	58
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/2027	11/29/2027	25	58	30	58
Collinsvile Substation: abovegrade + 230 kV Conductor installation						
(without helicopter) Collinsvile Substation: abovegrade	11/30/2027 12/6/2027	12/5/2027 1/17/2028	5 37			58 50
Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	1/18/2028	1/31/2028	12	59	30	59

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
detivities	Butc	Overtap i criod End Date	work days	ubk)	(EcqubA)	tever (Eeq ubA)
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/1/2028	2/14/2028	12	59	30	59
Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/15/2028	2/24/2028	9	59	30	59
Collinsville Substation: Site and ROW restoration	2/25/2028		123	48	30	49
restoration	2/25/2020	7/17/2020	123	40	30	49
Min sound level	49					
Max sound level	59					
Project days	693					
Days above 55 dBA	73					
Percentage of days above DBA	11%					

				Existing daytime	Combined project and
Overlapping co	nstuction Overlap Period Start		Project sound level (Le	q ambient sound level	existing ambient sound
activities	Date	Overlan Period End Date Work days	dBA)	(NM2) (LeadBA)	level (Leg dBA)

Alt 1 Overlapping Constru	action Activities sound Leve	els at NR2a1 with MM NOI-	1			
Overlapping constuction activities		Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site developent Collinsville Substation:	5/1/2026	5/31/2026	26	51.5	30	52
Site developent + 12 kV distribution	6/1/2026	7/15/2026	39	54.4	30	54
Collinsville Substation:						
Site developent Collinsville Substation:	7/16/2026	8/13/2026	25	51.5	30	52
Site developent + Colinsville Substation: Below-grade	8/14/2026	8/28/2026	13	55.3	30	55
Colinsville Substation:						
Below-grade Colinsville Substation:	8/29/2026	1/22/2027	107	53	30	53
Below-grade + PG&E IT work at Collinsville Substation	1/1/2027	1/22/2027	19	53.8	30	54
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&EIT work at Collinsville Substation	1/23/2027	2/5/2027	12	56.5	30	57
Collinsvile Substation:	1/23/2027	2/5/202/	12	56.5	30	57
abovegrade + PG&E IT work at Collinsville						
Substation	2/6/2027	4/30/2027	72	53.8	30	54
Collinsvile Substation: abovegrade + 230 kV overhead: access road + PG&E IT work at	- W 1999-	- 40 1000				
Collinsville Substation	5/1/2027	5/16/2027	13	54.3	30	54
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation + PG&E IT work at Collinsville Substation	5/17/2027	5/19/2027	3	54.6	30	55
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville						
Substation	5/20/2027	5/21/2027	2	55.3	30	55
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation	5/22/2027	6/10/2027	17	54.9	30	55
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + PG&E IT work at						
Collinsville Substation	6/11/2027	6/14/2027	3	54.7	30	55

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	ambient sound level (Leg dBA)	existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + PG&E IT work						
at Collinsville Substation	6/15/2027	6/30/2027	14	54.7	30	55
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	7/1/2027	8/2/2027	28	54.9	30	55
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	8/3/2027	8/31/2027	25	54.5	30	55
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition						
Apporach Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	9/1/2027	10/18/2027	41	53.7	30	54
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/2027	10/30/2027	10		30	56
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/2027	11/29/2027	25	55.7	30	56
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) Collinsvile Substation:	11/30/2027	12/5/2027	5		30	56
abovegrade Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	12/6/2027 1/18/2028	1/17/2028	37		30	53

Overlapping constuction activities		Overday Berind Field Bate	Madadaya	Project sound level (Leq	Existing daytime ambient sound level (Leg dBA)	Combined project and existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(Leq abA)	level (Leq dBA)
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/1/2028	2/14/2028	12	55.8	30	56
Collinsville Substation:	2/1/2028	2/14/2028	12	55.8	30	56
Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/15/2028	2/24/2028	9	52.5	30	53
Collinsville Substation:	2/15/2020	2/24/2020	9	32.3	30	- 33
Site and ROW restoration	2/25/2028	7/17/2028	123	52.1	30	52
Min Sound Level	52					
Max sound level	57					
Project days	693					
Days above 55 dBA	64					
Percentage of days above DBA	9%					

Alt 1 Overlapping Constru	action Activities sound Leve	els at NR1 with MM NOI-2				
Overlapping constuction activities		Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site developent Collinsville Substation:	5/1/2026	5/31/2026	26	37	48	48
Site developent + 12 kV distribution	6/1/2026	7/15/2026	39	53	48	54
Collinsville Substation:	7/10/2000	0/10/0000	0.5	27	40	40
Site developent Collinsville Substation:	7/16/2026	8/13/2026	25	37	48	48
Site developent + Colinsville Substation: Below-grade	8/14/2026	8/28/2026	13	41	48	49
Colinsville Substation: Below-grade	8/29/2026	12/31/2026	107	38	48	49
Colinsville Substation: Below-grade + PG&E IT work at Collinsville Substation	1/1/2027	1/22/2027	19		48	49
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT work at Collinsville Substation	1/23/2027	2/5/2027	12		48	49
Collinsvile Substation: abovegrade + PG&E IT work at Collinsville	120,2027	2.0.2027				
Substation	2/6/2027	4/30/2027	72	37	48	48
Collinsvile Substation: abovegrade + 230 kV overhead: access road + PG&E IT work at Collinsville Substation	5/1/2027	5/16/2027	13	47	48	50
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation + PG&E IT work at Collinsville Substation	5/17/2027	5/19/2027	3	48	48	51
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville	5,00,000	5/04/0007			40	
Substation Callinguille Substations	5/20/2027	5/21/2027	2	52	48	53
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation	5/22/2027	6/10/2027	17	50	48	52
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + PG&E IT work at						
Collinsville Substation	6/11/2027	6/14/2027	3	49	48	51

		Existing daytime Combined project and						
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	ambient sound level (NM2) (Leq dBA)	existing ambient sound level (Leq dBA)		
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	6/15/2027	6/30/2027	14	49	48	51		
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	7/1/2027	8/2/2027	28	54	48	55		
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	8/3/2027	8/31/2027	25	54	48	55		
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach	9/1/2027	10/18/2027	41	60	48	60		
Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	10/19/2027	10/19/2027	1	53	48	54		
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/2027	10/30/2027	10	61	48	61		
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/2027	11/29/2027	25	60	48	60		
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) Collinsvile Substation: abovegrade	11/30/2027 12/6/2027	12/5/2027 1/17/2028	<u>5</u> 37		48	<u>60</u> 48		
Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	1/18/2028	1/31/2028	12			60		

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without	2/1/2028		12	60	48	
helicopter) Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/15/2028			60	48	60
Collinsville Substation: Site and ROW restoration	2/25/2028		123	43	48	49
Min sound level Max sound level Project days Days above 55 dBA	48 61 693 114					
Percentage of days above 55 DBA	16%					

Alt 1 Overlapping Constru	ction Activities sound Leve	ls at NR2a1 with MM NOI-	2			
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(,,	,
Site developent	5/1/2026	5/31/2026	26	42	30	42
Collinsville Substation:						
Site developent + 12 kV distribution	6/1/2026	7/15/2026	39	52	30	52
Collinsville Substation:	0, 1, 1010	771072020	55	<u> </u>	- 50	<u> </u>
Site developent	7/16/2026	8/13/2026	25	42	30	42
Collinsville Substation: Site developent + Colinsville Substation:						
Below-grade	8/14/2026	8/28/2026	13	45	30	45
Colinsville Substation:	8/29/2026	12/31/2026	107	42	30	42
Below-grade Colinsville Substation: Below-grade + PG&E IT work at Collinsville Substation	1/1/2027	1/22/2027	19	43	30	
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&EIT work at Collinsville Substation	1/23/2027	2/5/2027	12	45	30	45
Collinsvile Substation: abovegrade + PG&E IT work at Collinsville						
Substation	2/6/2027	4/30/2027	72	41	30	42
Collinsvile Substation: abovegrade + 230 kV overhead: access road + PG&E IT work at Collinsville Substation	5/1/2027	5/16/2027	13	46	30	46
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation + PG&E IT work at Collinsville Substation	5/17/2027	5/19/2027	3	48	30	48
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville						
Substation	5/20/2027	5/21/2027	2	50	30	50
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation	5/22/2027	6/10/2027	17	49	30	49
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + PG&E IT work at						
Collinsville Substation	6/11/2027	6/14/2027	3	48	30	48

		Existing daytime Combined project and							
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	ambient sound level (Leg dBA)	existing ambient sound level (Leq dBA)			
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + PG&E IT work									
at Collinsville Substation: Collinsville Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	6/15/2027	6/30/2027	14	49	30	49			
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	8/3/2027	8/31/2027	25		30	48			
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition	9/1/2027	10/18/2027	41	48	30	48			
Apporach Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	10/19/2027	10/19/2027	1	46	30	46			
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/2027	10/30/2027	10	58	30	58			
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/2027	11/29/2027	25	58	30	58			
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) Collinsvile Substation: abovegrade	11/30/2027 12/6/2027	12/5/2027 1/17/2028	5		30	58			
Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	1/18/2028	1/31/2028	12		30				

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	ambient sound level (Leg dBA)	existing ambient sound level (Leq dBA)
dottvities	Bute	Overtap i ened End Bate	Work days	usrt)	(Led apit)	teret (zeq ubrt)
Collinsvile Substation:						
abovegrade + Collinsville						
Substation: Site and						
ROW restoration + 500						
kV interconnection:						
structure installation						
(without helicopter) +						
500 kV						
interconnection:conduc						
tor installation (without	2/1/2028	2/14/2028	12	59	30	59
helicopter)	2/1/2020	2/14/2026	12	59	30	39
Collinsville Substation:						
Site and ROW						
restoration +500 kV						
interconnection:						
structure installation						
(without helicopter) + 500 kV						
interconnection:conduc						
tor installation (without						
helicopter)	2/15/2028	2/24/2028	9	59	30	59
Collinsville Substation:						
Site and ROW						
restoration	2/25/2028	7/17/2028	123	48	48	51
Min sound level	40					
Max sound level	59					
Project days	693					
Days above 55 dBA	73					
Percentage of days						
above 55 DBA	11%					

Alt 1 Overlapping Constru	iction Activities sound Leve	els at NR1 with MM NOI-1 a	nd MM NOI-2			
Overlapping constuction activities		Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site developent Collinsville Substation:	5/1/2026	5/31/2026	26	37	48	48
Site developent + 12 kV distribution	6/1/2026	7/15/2026	39	53	48	54
Collinsville Substation:	7/40/0000	0/40/0000	0.5	07	40	40
Site developent Collinsville Substation:	7/16/2026	8/13/2026	25	37	48	48
Site developent + Colinsville Substation: Below-grade	8/14/2026	8/28/2026	13	41	48	49
Colinsville Substation: Below-grade	8/29/2026	1/22/2027	107	38	48	49
Colinsville Substation: Below-grade + PG&E IT work at Collinsville Substation	1/1/2027	1/22/2027	19		48	49
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT work at Collinsville Substation	1/23/2027	2/5/2027	12		48	49
Collinsvile Substation: abovegrade + PG&E IT work at Collinsville	120,2027	2.3.2027				
Substation	2/6/2027	4/30/2027	72	37	48	48
Collinsvile Substation: abovegrade + 230 kV overhead: access road + PG&E IT work at Collinsville Substation	5/1/2027	5/16/2027	13	47	48	50
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation + PG&E IT work at Collinsville Substation	5/17/2027	5/19/2027	3	48	48	51
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville	5,00,000	5/04/0007			40	
Substation	5/20/2027	5/21/2027	2	52	48	53
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation	5/22/2027	6/10/2027	17	50	48	52
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + PG&E IT work at						
Collinsville Substation	6/11/2027	6/14/2027	3	49	48	51

		Existing daytime Combined project and						
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)		
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	6/15/2027	6/30/2027	14	49	48	51		
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	7/1/2027	8/2/2027	28	54	48	55		
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	8/3/2027	8/31/2027	25	54	48	55		
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition								
Apporach Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	9/1/2027	10/18/2027	41	53	48	54		
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/2027	10/30/2027	10		48	57		
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/2027	11/29/2027	25	54	48	55		
Collinsvile Substation: abovegrade + 230 kV Conductor installation								
(without helicopter) Collinsvile Substation: abovegrade	11/30/2027 12/6/2027	12/5/2027 1/17/2028	5 37		48	55 48		
Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	1/18/2028	1/31/2028	12	44	48	49		

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/1/2028		12	46	48	50
Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without	2/15/2028					
helicopter) Collinsville Substation: Site and ROW restoration	2/15/2028		123	43	48	49
Min sound level Max sound level Project days Days above 55 dBA	48 60 693 51					
Percentage of days above DBA	7%					

Alt 1 Overlapping Constru	action Activities sound Leve	els at NR2a1 with MM NOI-	1 and MM NOI-2			
Overlapping constuction activities		Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:				,		
Site developent Collinsville Substation:	5/1/2026	5/31/2026	26	41.5	30	42
Site developent + 12 kV distribution	6/1/2026	7/15/2026	39	51.7	30	52
Collinsville Substation:	7/16/2026	0/12/2026	25	41.5	20	40
Site developent Collinsville Substation:	7/16/2026	8/13/2026	25	41.5	30	42
Site developent + Colinsville Substation: Below-grade	8/14/2026	8/28/2026	13	45.3	30	45
Colinsville Substation: Below-grade	8/29/2026	1/22/2027	107	43	30	43
Colinsville Substation: Below-grade + PG&E IT work at Collinsville Substation	1/1/2027	1/22/2027	197		30	43
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT work at Collinsville						
Substation Collinsvile Substation: abovegrade + PG&E IT	1/23/2027	2/5/2027	12	46.5	30	47
work at Collinsville						
Substation Collinsvile Substation: abovegrade + 230 kV	2/6/2027	4/30/2027	72	43.9	30	44
overhead: access road + PG&E IT work at Collinsville Substation	5/1/2027	5/16/2027	13	47.3	30	47
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation + PG&E IT work at Collinsville Substation	5/17/2027	5/19/2027	3	48.5	30	49
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville						
Substation	5/20/2027	5/21/2027	2	50.8	30	51
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation	5/22/2027	6/10/2027	17	49.7	30	50
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + PG&E IT work at						
Collinsville Substation	6/11/2027	6/14/2027	3	48.7	30	49

		Existing daytime Combined project and								
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)				
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	6/15/2027	6/30/2027	14	49.5	30	50				
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	7/1/2027	8/2/2027	28	50.2	30	50				
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	8/3/2027	8/31/2027	25	48.8	30					
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition										
Apporach Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	9/1/2027	10/18/2027	41		30	49				
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/2027	10/30/2027	10		30					
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/2027	11/29/2027	25	53	30	53				
Collinsvile Substation: abovegrade + 230 kV Conductor installation										
(without helicopter) Collinsvile Substation: abovegrade	11/30/2027 12/6/2027	12/5/2027 1/17/2028	5 37		30					
Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	1/18/2028		12		30					

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/1/2028	2/14/2028	12	50.2	30	50
Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/15/2028			49.2	30	49
Collinsville Substation: Site and ROW restoration	2/25/2028		123	48.4	30	49
Min sound level Max sound level Project days Days above 55 dBA	42 53 693 0					
Percentage of days above 55 DBA	0%					

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Alternative 2 Activities so	und Levels at NR1								
Component and activity			Distance to Component (feet)	Project sound (Leq dBA)	Insertion loss (dBA)	Project sound after insertion loss (Leq dBA)	Existing ambient daytime sound levels (NM2) (Leq dBA)	Combined project activity and existing ambient sound levels (Leq dBA)	
Collinsville Substation: Site developent	5/1/26	9/14/26	19170	41		41	48	49	
Colinsville Substation:	5/1/26	9/14/26	19170	41		41	48	49	
Below-grade	9/1/26	2/24/27	19170	42		42	48	49	
Collinsvile Substation: abovegrade	2/10/27	3/3/28	19170	39		39	48	49	
230 kV overhead: access	2/10/2/	3/3/20	13170	- 53		55	40	45	
oad	5/1/27	6/8/27	5580	45		45	48	50	
2300kV overhead:structure foundation installation	5/20/27	9/29/27	5580	47		47	48	51	
230 kV overhead:structure installation	8/30/27	1/22/28	5580	44		44	48	49	
230 kV Conductor installation (with									
helicopter) 230 kV Conductor installation (without	10/20/27	4/7/27	5580	58		58		58	
helicopter)	10/20/27	4/7/27	5580	48		48	48	51	
230 kV submarine segment Collinsville Substation:	7/1/27	10/31/27	5580	63	10	53	48	54	
Site and ROW restoration	2/1/28	7/17/28	18870	36		26	48	48	
Norhtern Transition Apporach	6/15/27	11/30/27	19170	48	10	38	48	48	
500 kV interconnection: structure foundation					10				
installation 500 kV interconnection: structure installation (with helicopter)	5/17/27 1/18/28	6/11/27	24500 19670	37 52		52	48	48	
502 kV interconnection: structure installation						-		-	
(without helicopter) 503 kV interconnection:conduc tor installation (with	1/18/28	2/25/28	19670	33		33		49	
helicopter) 503 kV interconnection:conductor installation (without	1/18/28	2/25/28	19670	46		46		50	
helicopter) 12 KV distribution	1/18/28 6/1/26	2/25/28 7/16/26	19670 18550	34 39		34 39		49 49	
500 kV Transposition Structures: Foundation Installation	6/1/27	7/28/27	20800	32		32		48	
500 kV Transposition Structures: Structure and Conductor Installation (helo)	46770	46812	20800	45.9		45.9	48	50.1	
500 kV Transposition Structures: Structure and Conductor									
Installation (no helo) PG&E IT Work at	46770	46812	20800	34.9		34.9	48	48.2	
Collinsville Substation	46388	46630	19170	35.7		35.7	48	48.2	

Alternative 2 Activities so	und Levels at NR1 with MM	I NOL-2							
Atternative 2 Activities 30	and Ecvets at Will With Fire	11101-2						Combined project	
							Existing ambient	activity and existing	
Component and activity	Start data	End date	Distance to Component (feet)	Project sound (Leq dBA)		Project sound after	daytime sound levels	ambient sound levels	
Collinsville Substation:	Start date	Elladate	(reet)	Project Soulia (Leq aba)	insertion toss (ubA)	insertion loss (Leq dBA)	(NM2) (Leq ubA)	(Leq dBA)	
Site developent	5/1/26	9/14/26	19170	41	10	45	48	50	
Colinsville Substation:									
Below-grade	9/1/26	2/24/27	19170	42	10	46	48	50	
Collinsvile Substation:	0/40/07	0/0/00	40470		40	40	40	40	
abovegrade 230 kV overhead: access	2/10/27	3/3/28	19170	39	10	43	48	49	
road	5/1/27	6/8/27	5580	45		45	48	50	
2300kV									
overhead:structure									
foundation installation	5/20/27	9/29/27	5580	47		47	48	51	
230 kV									
overhead:structure installation	8/30/27	1/22/28	5580	44		44	48	49	
230 kV Conductor	5/50/2/	2/22/20	3300	44		44	40	45	
installation (with									
helicopter)	10/20/27	4/7/27	5580	58		58	49	59	
230 kV Conductor									
installation (without helicopter)	10/20/27	4/7/27	5580	48		52	48	54	
230 kV submarine	10/20/2/	4///2/	3300	40		52	40	54	
segment	7/1/27	10/31/27	5580	63	10	53	48	54	
Collinsville Substation:									
Site and ROW									
restoration	2/1/28	7/17/28	18870	36		50	48	52	
Norhtern Transition Apporach	6/15/27	11/30/27	19170	48	10	71	48	71	
500 kV interconnection:									
structure foundation									
installation	5/17/27	6/11/27	24500	37		37	48	48	
500 kV interconnection:									
structure installation (with helicopter)	1/18/28	2/25/28	19670	52		52	48	54	
502 kV interconnection:									
structure installation									
(without helicopter)	1/18/28	2/25/28	19670	33		33	49	49	
503 kV interconnection:conduc									
tor installation (with									
helicopter)	1/18/28	2/25/28	19670	46		46	48	50	
503 kV									
interconnection:conduc									
tor installation (without	1/18/28	2/25/28	10070	24		34	40	49	
helicopter) 12 kV distribution	1/18/28	2/25/28 7/16/26	19670 18550	34 39		34	49		
500 kV Transposition	3/1/20	,710/20	10330	- 53		- 55	40	45	
Structures: Foundation									
Installation	6/1/27	7/28/27	20800	32		32	48	48	
500 kV Transposition									
Structures: Structure and Conductor									
Installation (helo)	46770	46812	20800	45.9		45.9	48	50.1	
500 kV Transposition									
Structures: Structure									
and Conductor									
Installation (no helo) PG&E IT Work at	46770	46812	20800	34.9		34.9	48	48.2	
Collinsville Substation	46388	46630	19170	35.7	10	40.4	48	48.7	
Commovine Substation	40300	40030	19170	35.7	10	40.4	40	40.7	

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Alternative 2 Activities so	und Levels at NR1 with MM	NOI-2 and MM NOI-4							
Component and activity		End date	Distance to Component (feet)	Project sound (Leq dBA)	Insertion loss (dBA)	MM NOI 4	Project sound after insertion loss (Leq dBA)		Combined project activity and existing ambient sound levels (Leq dBA)
Collinsville Substation:									
Site developent	5/1/26	9/14/26	19170	41	10		31	48	48
Colinsville Substation:	9/1/26	2/24/27	19170	42	10		32	48	40
Below-grade Collinsvile Substation:	9/1/20	2/24/2/	19170	42	10		32	40	48
abovegrade	2/10/27	3/3/28	19170	39	10		29	48	48
230 kV overhead: access									
road 2300kV	5/1/27	6/8/27	5580	45			45	48	50
overhead:structure foundation installation	5/20/27	9/29/27	5580	47			47	48	51
230 kV									
overhead:structure installation	8/30/27	1/22/28	5580	44			44	48	49
230 kV Conductor installation (with helicopter)	10/20/27	4/7/27	5580	58			58	49	59
230 kV Conductor installation (without	10/20/2/	4.772	5555						
helicopter)	10/20/27	4/7/27	5580	52			52	48	54
230 kV submarine segment	7/1/27	10/31/27	5580	52	10		42	48	49
Collinsville Substation: Site and ROW									
restoration	2/1/28	7/17/28	18870	36			36	48	48
Norhtern Transition Apporach	6/15/27	11/30/27	19170	52	10		42	48	49
500 kV interconnection: structure foundation									
installation 500 kV interconnection:	5/17/27	6/11/27	24500	33			33	48	48
structure installation (with helicopter) 502 kV interconnection:	1/18/28	2/25/28	19670	52			52	48	54
structure installation (without helicopter)	1/18/28	2/25/28	19670	33			33	49	49
503 kV interconnection:conduc tor installation (with helicopter)	1/18/28	2/25/28	19670	46			46	48	50
503 kV interconnection:conduc tor installation (without	1/10/20	2/23/26	19070	40			40	40	30
helicopter)	1/18/28		19670	34			34		49
12 kV distribution 500 kV Transposition	6/1/26	7/16/26	18550	33			33	48	48
Structures: Foundation Installation	6/1/27	7/28/27	20800	57		57.4	0	48	48
500 kV Transposition Structures: Structure and Conductor									
Installation (helo) 500 kV Transposition Structures: Structure	46770	46812	20800	71.5		71.5	0	48	48
and Conductor Installation (no helo)	46770	46812	20800	60.5		60.5	0	48	48
PG&E IT Work at Collinsville Substation	46388	46630	19170	35.7	10		25.7	48	48

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Alternative 2 Activities so	und Lovole at NDC								
			Distance to Component			Project sound after	Existing ambient daytime sound levels	Combined project activity and existing ambient sound levels	
Component and activity	Start date	End date	(feet)	Project sound (Leq dBA)	Insertion loss (dBA)	insertion loss (Leq dBA)	(NM2) (Leq dBA)	(Leq dBA)	
Collinsville Substation: Site developent	5/1/26	8/29/26	5400	52		52	30	52	
Colinsville Substation:	5/1/20	6/29/20	5400	52		52	30	52	
Below-grade	8/14/26	2/6/27	5400	53		53	30	53	
Collinsvile Substation:	0/14/20	2/0/2/	3400				30	55	
bovegrade	1/23/27	2/15/28	5400	50		50	30	50	
230 kV overhead: access	1/20/2/	2/10/20	0400					50	
oad	5/1/27	5/22/27	5560	45		45	30	45	
310kV	0/1/2/	O/ZEJE/	0000	40		40			
overhead:structure									
oundation installation	5/20/27	8/3/27	5560	47		47	30	47	
232 kV									
overhead:structure									
nstallation	8/3/27	10/19/27	5560	44		44	30	44	<u></u>
230 kV Conductor									
nstallation (with									
nelicopter)	10/20/27	12/6/27	5560	58		58	30	58	
230 kV Conductor									
nstallation (without									
nelicopter)	10/20/27	12/6/27	5560	48		48	30	48	
230 kV submarine									
egment	7/1/27	10/31/27	10400	52	10	42	30	42	
Collinsville Substation:									
Site and ROW restoration	2/1/28	7/17/28	9200	48		48	30	49	
	2/1/20	//1//20	9200	40		40	30	49	
Norhtern Transition Apporach	6/15/27	11/30/27	10400	52	10	42	30	42	
500 kV interconnection:	0/13/2/	11/30/2/	10400	52	10	42	30	42	
structure foundation									
nstallation	5/17/27	6/11/27	10950	43		43	30	43	
501 kV interconnection:	3/1//2/	3/11/2/	10330	40		40	50	45	
structure installation									
with helicopter)	1/18/28	2/25/28	10950	57		57	30	57	
502 kV interconnection:									
structure installation									
without helicopter)	1/18/28	2/25/28	10950	38		38	30	38	
503 kV									
nterconnection:conduc									
or installation (with		_							
elicopter)	1/18/28	2/25/28	10950	51		51	30	51	
603 kV									
nterconnection:conduc									
or installation (without		0.000.000							
elicopter)	1/18/28			39 49		39	30		
2 kV distribution	6/1/26	7/16/26	5870	49		49	30	49	
G&E IT Work at		0:0:::0							
Collinsville Substation	1/1/27	8/31/27	5400	47		47	48	51	

	ı	1		ı	ı		ı		1
Alternative 2 Activities so	und Levels at NR6 with MM	1 NOI-2							
			Distance to Component			Project sound after	Existing ambient daytime sound levels	Combined project activity and existing ambient sound levels	
Component and activity Collinsville Substation:	Start date	End date	(feet)	Project sound (Leq dBA)	Insertion loss (dBA)	insertion loss (Leq dBA)	(NM2) (Leq dBA)	(Leq dBA)	
Collinsville Substation: Site developent	5/1/26	8/29/26	5400	52	10	45	30	45	
Colinsville Substation:	5/1/20	0/29/20	5400	52	10	45	30	45	
Below-grade	8/14/26	2/6/27	5400	53	10	47	30	47	
Collinsvile Substation:	0/14/20	2/0/2/	3400	33	10		50	4/	
abovegrade	1/23/27	2/15/28	5400	50	10	47	30	47	
230 kV overhead; access			- 1,1,1						
road	5/1/27	5/22/27	5560	45		44	30	45	
2310kV									
overhead:structure		1							
foundation installation	5/20/27	8/3/27	5560	47		47	30	47	<u> </u>
232 kV									
overhead:structure		1							
installation	8/3/27	10/19/27	5560	44		43	30	44	
230 kV Conductor		1							
installation (with									
helicopter)	10/20/27	12/6/27	5560	58		58	30	58	
230 kV Conductor									
installation (without helicopter)	10/20/27	12/6/27	5560	48		52	30	52	
230 kV submarine	10/20/2/	12/0/2/	3300	40		52	30	32	
segment	7/1/27	10/31/27	10400	52	10	50	30	50	
Collinsville Substation:	772727	10/01/2/	10400	02	10				
Site and ROW									
restoration	2/1/28	7/17/28	9200	48		51	30	51	
Norhtern Transition									
Apporach	6/15/27	11/30/27	10400	52	10	71	30	71	
500 kV interconnection:									
structure foundation									
installation	5/17/27	6/11/27	10950	43		36	30	37	
501 kV interconnection:		1							
structure installation									
with helicopter)	1/18/28	2/25/28	10950	57		50	30	50	
502 kV interconnection:		1							
structure installation	1/10/00	2/25/28	10050	20		24	20	22	
(without helicopter)	1/18/28	2/25/28	10950	38		31	30	33	
503 kV interconnection:conduc		1							
tor installation (with		1							
nelicopter)	1/18/28	2/25/28	10950	51		44	30	45	
503 kV	1/10/20	2,20,20	10000	01		-		-	
nterconnection:conduc		1							
tor installation (without		1							
nelicopter)	1/18/28	2/25/28	10950	39		32	30	34	
12 kV distribution	6/1/26	7/16/26	5870	49		62	30	62	
PG&E IT Work at									
Collinsville Substation	1/1/27	8/31/27	5400	47		64	30	64	

	1	1			1		1	ı	
Alternative 1 Activities so	und Levels at NR6 with MM	NOI-2 and MM NOI-4							
Component and activity		End date	Distance to Component (feet)	Project sound (Leq dBA)	Insertion loss (dBA)	MM NOI 4	Project sound after insertion loss (Leq dBA)		Combined project activity and existing ambient sound levels (Leq dBA)
Collinsville Substation:			()	,	(,		,	(, (,,	(,
Site developent	5/1/26	9/14/26	19170	55	10		45	30	45
Colinsville Substation:									
Below-grade	9/1/26	2/24/27	19170	56	10		46	30	46
Collinsvile Substation: abovegrade	2/10/27	3/3/28	19170	56	10		46	30	46
230 kV overhead: access	2/10/2/	3/3/26	19170	30	10		40	30	40
road	5/1/27	6/8/27	5580	44			44	30	45
2300kV									
overhead:structure									
foundation installation	5/20/27	9/29/27	5580	47			47	30	47
230 kV									
overhead:structure installation	8/30/27	1/22/28	5580	43			43	30	44
230 kV Conductor	0/00/2/	1722720	3300	40			40	50	
installation (with									
helicopter)	10/20/27	4/7/27	5580	58			58	30	58
230 kV Conductor									
installation (without	40/00/07	4/7/07	5500	50			50		50
helicopter) 230 kV submarine	10/20/27	4/7/27	5580	52			52	30	52
segment	7/1/27	10/31/27	5580	44	10		34	30	36
Collinsville Substation:									
Site and ROW									
restoration	2/1/28	7/17/28	18870	52			52	30	52
Norhtern Transition									
Apporach	6/15/27	11/30/27	19170	48	10		38	30	38
500 kV interconnection: structure foundation									
installation	5/17/27	6/11/27	24500	36			36	30	37
500 kV interconnection:									
structure installation									
(with helicopter)	1/18/28	2/25/28	19670	50			50	30	50
502 kV interconnection: structure installation									
(without helicopter)	1/18/28	2/25/28	19670	31			31	30	33
503 kV									
interconnection:conduc									
tor installation (with									
helicopter)	1/18/28	2/25/28	19670	44			44	30	45
503 kV interconnection:conduc									
tor installation (without									
helicopter)	1/18/28	2/25/28	19670	32			32		34
12 kV distribution	6/1/26	7/16/26	18550	62		_	62	30	62
500 kV Transposition									
Structures: Foundation	6/1/27	7/28/27	20800	58		58	_	30	30
Installation 500 kV Transposition	6/1/2/	//28/2/	20800	58		58	U	30	30
Structures: Structure									
and Conductor									
Installation (helo)	1/18/28	2/29/28	20800	72.4		72	0	30	30
500 kV Transposition									
Structures: Structure									
and Conductor Installation (no helo)	1/18/28	2/29/28	20800	61.3		61	0	30	30
PG&E IT Work at	1/10/20	2/23/26	20800	01.3		01	· ·	30	30
Collinsville Substation	1/1/27	8/31/27	19170	49.8	10		40	48	49

Alternative 2 Overlapping	Noise Levels at NR1					
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site development	5/1/2026	5/31/2026	26	41	48	49
Collinsville Substation: Site development, 12 kV						
distribution	6/1/2026	7/15/2026	39	43	48	49
Collinsville Substation:						
Site development	7/16/2026	8/31/2026	40	41	48	49
Collinsville Substation: Site development, Collinsville Substation:						
Below-grade	9/1/2026	9/13/2026	11	44	48	50
Collinsville Substation:						
Below-grade	9/14/2026	12/31/2026	128	42	48	49
Collinsville Substation: Below-grade + PG&E IT						
Work	1/1/2027	2/9/2027	34	43	48	49
Collinsville Substation: Below-grade, Collinsville Substation: Above-grade + PG&E IT Work	2/10/2027	2/23/2027	12	44	48	50
Collinsville Substation:						
Above-grade + PG&E IT Work	2/24/2027	4/30/2027	57	40	48	49
Collinsville Substation: Above-grade, 230 kV overhead: access road +	EL E-H E-DET	4,00/2027				
PG&E IT Work	5/1/2027	5/16/2027	13	46	48	50
Collinsville Substation: Above-grade, 230 kV overhead: access road, 500 kV interconnection: structure foundation installation + PG&E IT Work	5/17/2027	5/19/2027	3	46	48	50
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/2027	5/31/2027	10	50	48	52
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/1/2027	6/7/2027	6	50	48	52
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&EIT Work	6/8/2027	6/10/2027	3	51	48	53

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/11/2027	6/14/2027	3	53	48	54
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT						
Work Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/15/2027	6/30/2027	23		48	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	7/28/2027	8/29/2027			48	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/30/2027	8/31/2027	26	55	48	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/1/2027	9/28/2027	24	55	48	56
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/29/2027	10/19/2027	18	54	48	55

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/2027	10/30/2027	10	59	48	59
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), Northern Transition Approach	10/31/2027	11/29/2027	25	58	48	58
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter)	11/30/2027	1/17/2028	42	58	48	58
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor						
Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure		1/21/2028	4	59	48	60
and Conductor Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)					48	

Overlapping constuction	Overlap Period Start			Project sound level (Leq	Existing daytime ambient sound level	Combined project and existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(with helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 500 kV						
Transposition						
Structures: Structure						
and Conductor						
Installation (helo)	2/25/2028	2/28/2028	3	58	48	58
Min noise level	49					
Max noise level	60					
Project days	631					
Days above 55 dBA	163					
Percentage of days	26%					
above 55 DBA	26%			1		

Alternative 2 Overlapping	Noise Levels at NR6					
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:					(, , ,
Site development	5/1/26	5/31/26	26	55	30	55
Collinsville Substation: Site development, 12 kV						
distribution	6/1/26	7/15/26	39	63	30	63
Collinsville Substation:						
Site development	7/16/26	8/31/26	40	55	30	55
Collinsville Substation: Site development,						
Collinsville Substation: Below-grade	9/1/26	9/14/26	12	58	30	58
Collinsville Substation:						
Below-grade	9/15/26	12/31/26	127	56	30	56
Collinsville Substation:						
Below-grade + PG&E IT Work	1/1/27	2/9/27	34	57	30	57
VVOIR	1/1/2/	213121	04	37		37
Collinsville Substation: Below-grade, Collinsville Substation: Above-grade						
+ PG&E IT Work	2/10/27	2/24/27	13	58	30	58
Collinsville Substation:						
Above-grade + PG&E IT Work	2/25/27	4/30/27	56	55	30	55
Collinsville Substation:	2/20/2/	4/00/2/				- 00
Above-grade, 230 kV						
overhead: access road +	5/4/07	E /40/07				
PG&E IT Work	5/1/27	5/16/27	13	55	30	55
Collinsville Substation: Above-grade, 230 kV overhead: access road, 500 kV interconnection: structure foundation installation + PG&E IT	E 147/07	E/10/97	2	57	20	57
Work	5/17/27	5/19/27	3	57	30	57
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/27	5/31/27	10	57	30	57
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/1/27	6/7/27	6	66	30	66
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/8/27	6/10/27	3	71	30	71

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT	044.07	044407				
Work Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT	6/11/27	6/14/27	3	55	30	55
Work Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation	6/15/27	6/30/27	14	64	30	64
Installation + PG&E IT Work Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	7/11/27	7/27/27 8/29/27	23		30	64
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/30/27	8/31/27	2			56
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/1/27	9/28/27	24	54	30	54
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/29/27	10/19/27	18	53	30	53

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/27	10/30/27	10	59	30	59
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), Northern Transition Approach	10/31/27	11/29/27	25	59	30	59
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter)	11/30/27	1/7/28	34	59	30	59
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (with helicopter), 500 kV interconnection: conductor installation (with helicopter), 500 kV Transposition Structures: Structure and Conductor						
Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure	1/8/28	1/22/28	13	81	30	81
and Conductor Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor	1/23/28			81	30	81

Overlapping constuction		Out to Detail Ful Date	Watatan	Project sound level (Leq		Combined project and existing ambient sound
activities	Date	Overlap Period End Date	work days	dBA)	(Leq dBA)	level (Leq dBA)
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(with helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 500 kV						
Transposition						
Structures: Structure						
and Conductor						
Installation (helo)	2/26/28	2/28/28	2	78	30	78
Min sound level	53					
Max sound level	81					
Project days	607					
Days above 55 dBA	399					
Percentage of days						
above DBA	66%					

Alternative 2 Overlapping	Noise Levels at NR1 wih	1M NOI-1			Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:	Date	Overlap Period Elid Date	work days	ush)	(MMZ) (EequDA)	tover(EequbA)
Site development	5/1/2026	5/31/2026	26	41	48	49
Collinsville Substation:						
Site development, 12 kV						
distribution	6/1/2026	7/15/2026	39	42	48	49
Collinsville Substation: Site development	7/16/2026	8/31/2026	40	41	48	49
Collinsville Substation:	//10/2020	6/31/2020	40	41	40	43
Site developent +						
Colinsville Substation:						
Below-grade	9/1/2026	9/13/2026	11	44	48	50
Collinsville Substation:						
Below-grade	9/14/2026	12/31/2026	94	42	48	49
Collinsville Substation:						
Below-grade + PG&E IT Work	1/1/2027	2/9/2027	34	42	48	4:
WOIK	1/1/202/	2/3/202/	34	42	40	4-
Collinsville Substation:						
Below-grade, Collinsville						
Substation: Above-grade						
+ PG&E IT Work	2/10/2027	2/23/2027	12	44	48	4:
Collinsville Substation:						
Above-grade + PG&E IT	2/24/2027	4/30/2027	57	39	40	49
Work Collinsville Substation:	2/24/202/	4/30/2027	57	39	48	4
Above-grade, 230 kV						
overhead: access road +						
PG&E IT Work	5/1/2027	5/16/2027	13	46	48	50
Collinsville Substation:						
Above-grade, 230 kV						
overhead: access road,						
500 kV interconnection:						
structure foundation						
installation + PG&E IT Work	5/17/2027	5/19/2027	3	46	48	50
	3/1//202/	5/19/2027	3	40	40	50
Collinsville Substation:						
Above-grade, 230 kV overhead: access road,						
230 kV overhead:						
structure foundation						
installation, 500 kV						
interconnection:						
structure foundation						
installation + PG&E IT	F (00 (0007	F /04 /0007	40	40	40	F.
Work	5/20/2027	5/31/2027	10	49	48	52
Collinsville Substation:						
Above-grade, 230 kV						
overhead: access road,						
230 kV overhead:						
structure foundation						
installation, 500 kV interconnection:						
structure foundation						
installation, 500 kV						
Transposition						
Structures: Foundation						
Installation + PG&E IT	011100=	0.17.00.	=			
Work	6/1/2027	6/7/2027	6	50	48	5:
Collinsville Substation:						
Above-grade, 230 kV						
overhead: structure						
foundation installation, 500 kV interconnection:						
structure foundation						
installation, 500 kV						
Transposition						
Structures: Foundation						
Installation + PG&E IT						
Work	6/8/2027	6/10/2027	3	51	48	53

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	ambient sound level (NM2) (Leq dBA)	existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation						
Installation + PG&E IT Work	6/11/2027	6/14/2027	3	50	48	52
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/15/2027	6/30/2027	14	48	48	51
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT						
Work Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach +	7/1/2027	7/27/2027	23		48	
PG&EITWork Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&EITWork	7/28/2027	8/29/2027 8/31/2027	28		48	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/1/2027	9/28/2027	24	55	48	56
Collinsvile Substation: abovegrade + 232 kV overhead:structure installation + Submarine cable + Norhtern						
Transition Apporach	9/29/2027	10/19/2027	18	54	48	5

					osed Project and Atternati	· · · · · · · · · · · · · · · · · · ·
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (withoutoutout helicopter), 230 kV						
submarine segment, Northern Transition	10/20/2027	10/30/2027	10	56	48	
Approach Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (withoutout helicopter), Northern Transition	10/20/2027	10/30/2027	10	30	40	57
Approach	10/31/2027	11/29/2027	25	56	48	57
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation						
(withoutout helicopter)	11/30/2027	1/17/2028	42	53	48	54
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor						
Installation (no helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor		1/21/2028	4	53	48	54
Installation (no helo)	1/22/2028	1/31/2028	8	53	48	54
Collinsville Substation: Above-grade, 230 kV Conductor installation (without helicopter), Collinsville Substation: Site and ROW restoration, 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)	2/1/2028	2/24/2028	21	53	48	54

Overlapping constuction	Overlap Period Start			Project sound level (Leq	Existing daytime ambient sound level	Combined project and existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(withoutout helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 500 kV						
Transposition						
Structures: Structure						
and Conductor						
Installation (no no helo)	2/25/2028	2/28/2028	3	53	48	54
Min noise level	49					
Max noise level	57					
Project days	607					
Days above 55 dBA	61					
	01					
Percentage of days above DBA	10%					

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Alternative 2 Overlapping	Noise Levels at NR6 with N	1M NOI-1				
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site developent Collinsville Substation:	5/1/2026	5/31/2026	26	55	30	55
Site developent + 12 kV						
distribution	6/1/2026	7/15/2026	39	63	30	63
Collinsville Substation: Site developent	7/16/2026	8/13/2026	25	55	30	55
Collinsville Substation: Site developent + Colinsville Substation:						
Below-grade	8/14/2026	8/28/2026	13	58	30	58
Colinsville Substation: Below-grade	8/29/2026	1/22/2027	107	56	30	56
Colinsville Substation: Below-grade + PG&E IT work at Collinsville						
Substation	1/1/2027	1/22/2027	19	56	30	56
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT work at Collinsville Substation	1/23/2027	2/5/2027	12	58	30	58
Collinsvile Substation: abovegrade + PG&EIT work at Collinsville						
Substation	2/6/2027	4/30/2027	72	53	30	53
Collinsvile Substation: abovegrade + 230 kV overhead: access road + PG&E IT work at Collinsville Substation	5/1/2027	5/16/2027	13	53	30	53
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation + PG&E IT work at Collinsville Substation	5/17/2027	5/19/2027	3	56	30	56
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville						
Substation	5/20/2027	5/21/2027	2	56	30	56
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation	5/22/2027	6/10/2027	17	66	30	66
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + PG&E IT work at						
Collinsville Substation	6/11/2027	6/14/2027	3	71	30	71

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	ambient sound level (Leg dBA)	existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + PG&E IT work						
at Collinsville Substation: Collinsville Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	6/15/2027	6/30/2027	14	71	30	71
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work						
at Collinsville Substation: Collinsville Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition	8/3/2027 9/1/2027	8/31/2027	25	64	30	64
Apporach Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	10/19/2027	10/18/2027	1	56	30	54
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/2027	10/30/2027	10		30	54
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/2027	11/29/2027	25	53	30	53
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) Collinsvile Substation: abovegrade	11/30/2027 12/6/2027	12/5/2027 1/17/2028	5		<u>30</u>	56
Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	1/18/2028	1/31/2028	12			

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	ambient sound level	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation:						
abovegrade + Collinsville						
Substation: Site and						
ROW restoration + 500						
kV interconnection:						
structure installation						
(without helicopter) +						
500 kV						
interconnection:conduc						
tor installation (without						
helicopter)	2/1/2028	2/14/2028	12	70	30	70
Collinsville Substation:						
Site and ROW						
restoration +500 kV						
interconnection:						
structure installation						
(without helicopter) +						
500 kV						
interconnection:conduc						
tor installation (without						
helicopter)	2/15/2028	2/24/2028	9	70	30	70
Collinsville Substation:						
Site and ROW						
restoration	2/25/2028	7/17/2028	123		30	70
				69	30	69
Max sound level	53					
Project days	71					
Days above 55 dBA	573					
Percentage of days						
above DBA	367					
	64%					

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Alternative 2 Overlapping	Noise Levels at NR1 with N	1M NOI-2				
					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	ambient sound level (NM2) (Leq dBA)	existing ambient sound level (Leq dBA)
Collinsville Substation:	Date	Overtap i enou zna bute	Work days	asn	(MTZ) (Zed abit)	tever(zeq abri)
Site development	5/1/2026	5/31/2026	26	45	48	50
Collinsville Substation:						
Site development, 12 kV distribution	6/1/2026	7/15/2026	39	46	40	EO
Collinsville Substation:	6/1/2026	7/15/2026	39	46	48	50
Site development	7/16/2026	8/31/2026	40	45	48	50
Collinsville Substation:						
Site development,						
Collinsville Substation:	0/1/2026	0/14/0006	10	40	48	E-1
Below-grade Collinsville Substation:	9/1/2026	9/14/2026	12	48	40	51
Below-grade	9/15/2026	12/31/2026	127	46	48	50
Collinsville Substation:						
Below-grade + PG&E IT						
Work	1/1/2027	2/9/2027	34	47	48	51
Collinsville Substation: Below-grade, Collinsville						
Substation: Above-grade						
+ PG&E IT Work	2/10/2027	2/24/2027	13	49	48	51
Collinsville Substation:						
Above-grade + PG&E IT	0.05.000	4 (0.0 (0.0)				
Work Collinsville Substation:	2/25/2027	4/30/2027	56	45	48	50
Above-grade, 230 kV						
overhead: access road +						
PG&E IT Work	5/1/2027	5/16/2027	13	48	48	51
Collinsville Substation:						
Above-grade, 230 kV						
overhead: access road, 500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	5/17/2027	5/19/2027	3	52	48	54
Collinsville Substation:						
Above-grade, 230 kV						
overhead: access road,						
230 kV overhead: structure foundation						
installation, 500 kV						
interconnection:						
structure foundation						
installation + PG&E IT Work	5/20/2027	5/31/2027	10	53	48	54
VVOIR	3/20/2027	3/31/2027	10	33	40	J4
Collinsville Substation:						
Above-grade, 230 kV overhead: access road,						
230 kV overhead:						
structure foundation						
installation, 500 kV						
interconnection: structure foundation						
installation, 500 kV						
Transposition						
Structures: Foundation						
Installation + PG&E IT	6/1/2027	6/7/2027	_	51	48	53
Work	0/1/202/	0///202/	6	51	48	53
Collinsville Substation:						
Above-grade, 230 kV overhead: structure						
foundation installation,						
500 kV interconnection:						
structure foundation						
installation, 500 kV						
Transposition						

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/11/2027	6/14/2027	3	53	48	54
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT	0/11/2027	0/14/2027		33	40	Jos
Work Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/15/2027	6/30/2027 7/27/2027	14		48	71
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	7/28/2027	8/29/2027	28		48	71
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/30/2027	8/31/2027	26		48	71
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/1/2027	9/28/2027	24	71	48	71
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/29/2027	10/19/2027	18	71	48	71

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/2027	10/30/2027	10	71	48	71
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), Northern Transition Approach	10/31/2027	11/29/2027	25	60	48	60
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter)	11/30/2027	1/7/2028	34	59	48	59
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor						
Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure		1/22/2028	13	60	48	60
and Conductor Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor		2/25/2028		60	48	60

Overlapping constuction				Project sound level (Leq		Combined project and existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(with helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 500 kV						
Transposition						
Structures: Structure						
and Conductor						
Installation (helo)	2/26/2028	2/28/2028	2	59.2	48	59.5
Min sound level	50					
	71					
Max sound level						
Project days	631					
Days above 55 dBA	249					
Percentage of days above 55 DBA	39%					

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Alternative 2 Overlapping	L Noise Levels at NR6 with N	MM NOI-2				
					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	ambient sound level (NM2) (Leq dBA)	existing ambient sound level (Leq dBA)
Collinsville Substation:		O TOTAL PT O TOU I I I I I I I I I I I I I I I I I I I			() (_04	15101 (25q a571)
Site development	5/1/2026	5/31/2026	26	45	30	45
Collinsville Substation:						
Site development, 12 kV distribution	6/1/2026	7/15/2026	39	62	30	62
Collinsville Substation:	0/1/2020	7/13/2020	39	02	30	02
Site development	7/16/2026	8/31/2026	40	45	30	45
Collinsville Substation:						
Site development,						
Collinsville Substation: Below-grade	9/1/2026	9/14/2026	12	49	30	49
Collinsville Substation:	0, 1, 2020	0,11,2020				
Below-grade	9/15/2026	12/31/2026	127	47	30	47
Collinsville Substation:						
Below-grade + PG&E IT	1/1/0007	2/9/2027	34	40	20	40
Work	1/1/2027	2/9/2027	34	48	30	48
Collinsville Substation:						
Below-grade, Collinsville						
Substation: Above-grade						
+ PG&E IT Work	2/10/2027	2/24/2027	13	50	30	50
Collinsville Substation: Above-grade + PG&E IT						
Work	2/25/2027	4/30/2027	56	48	30	48
Collinsville Substation:						
Above-grade, 230 kV						
overhead: access road + PG&E IT Work	5/1/2027	5/16/2027	13	49	30	49
Collinsville Substation:	3/1/202/	3/10/2027	10	45		43
Above-grade, 230 kV						
overhead: access road,						
500 kV interconnection:						
structure foundation installation + PG&E IT						
Work	5/17/2027	5/19/2027	3	53	30	53
Collinsville Substation:						
Above-grade, 230 kV						
overhead: access road,						
230 kV overhead:						
structure foundation installation, 500 kV						
interconnection:						
structure foundation						
installation + PG&E IT Work	5/20/2027	5/31/2027	10	54	30	54
	3/20/202/	3/31/2027	10	34	30	34
Collinsville Substation:						
Above-grade, 230 kV overhead: access road,						
230 kV overhead:						
structure foundation						
installation, 500 kV						
interconnection: structure foundation						
installation, 500 kV						
Transposition						
Structures: Foundation Installation + PG&E IT						
Work	6/1/2027	6/7/2027	6	64	30	64
Collinsville Substation:						
Above-grade, 230 kV						
overhead: structure						
foundation installation,						
500 kV interconnection: structure foundation						
installation, 500 kV						
Transposition						
Structures: Foundation						
Installation + PG&EIT Work	6/8/2027	6/10/2027	3	71	30	71
	5/5/202/	3/10/2027	<u> </u>		. 30	

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/11/2027	6/14/2027	3	51	30	51
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT						
Work Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/15/2027	6/30/2027	14		30	72
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	7/28/2027	8/29/2027	28		30	71
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/30/2027	8/31/2027	26		30	71
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/1/2027	9/28/2027	24	71	30	71
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/29/2027	10/19/2027	18	71	30	71

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/2027	10/30/2027	10	71	30	71
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), Northern Transition Approach	10/31/2027	11/29/2027	25	59	30	59
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter)	11/30/2027	1/7/2028	34		30	58
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor						
Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure		1/22/2028	13	78	30	78
and Conductor Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)					30	78

erlap Period Start				Existing daytime ambient sound level	Combined project and existing ambient sound
ate	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
2/26/2028	2/28/2028	2	78	30	78
78					
607					
270					
4406					
	2/26/2028 45 78 607	2/26/2028 2/28/2028 45 78 607 270	te Overlap Period End Date Work days 2/26/2028 2/28/2028 2 45 78 607 270	te Overlap Period End Date Work days dBA) 2/26/2028 2/28/2028 2 78 45 78 607 270	te Overlap Period End Date Work days dBA) (NM2) (Leq dBA) 2/26/2028 2/28/2028 2 78 30 45 78 607 270

Alternative 2 Overlapping	I Noise Levels at NR1 with N	MM NOI-1 and MM NOI-2				
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:		•		,		
Site development	5/1/2026	5/31/2026	26	31	48	48
Collinsville Substation: Site development, 12 kV						
distribution	6/1/2026	7/15/2026	39	35	48	48
Collinsville Substation:						
Site development	7/16/2026	8/31/2026	40	31	48	48
Collinsville Substation: Site development, Collinsville Substation:						
Below-grade	9/1/2026	9/14/2026	12	34	48	48
Collinsville Substation:						
Below-grade	9/15/2026	12/31/2026	127	32	48	48
Collinsville Substation: Below-grade + PG&E IT						
Work	1/1/2027	2/9/2027	34	32	48	48
Collinsville Substation: Below-grade, Collinsville Substation: Above-grade + PG&E IT Work	2/10/2027	2/24/2027	13	34	48	48
Collinsville Substation:						
Above-grade + PG&E IT	a					
Work	2/25/2027	4/30/2027	56	29	48	48
Collinsville Substation: Above-grade, 230 kV overhead: access road + PG&E IT Work	5/1/2027	5/16/2027	13	45	48	50
Collinsville Substation: Above-grade, 230 kV overhead: access road, 500 kV interconnection: structure foundation installation + PG&E IT Work	5/17/2027	5/19/2027	3	45	48	50
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/2027	5/31/2027	10		48	
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/1/2027	6/7/2027			48	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/8/2027	6/10/2027	3	51	48	53

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/11/2027	6/14/2027	3	50	48	52
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/15/2027	6/30/2027	14	48	48	51
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work		7/27/2027	23	49		
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	7/28/2027	8/29/2027				
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&EITWork	8/30/2027	8/31/2027	26	50	48	52
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/1/2027	9/28/2027	24	50	48	52
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/29/2027	10/19/2027	18	48	48	51

Existing daytime Co						Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/2027	10/30/2027	10	54	48	55
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), Northern Transition Approach	10/31/2027	11/29/2027	25	53	48	54
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter)	11/30/2027	1/7/2028	34	53	48	54
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (with helicopter), 500 kV interconnection: conductor installation (with out helicopter), 500 kV Transposition Structures: Structure and Conductor						
Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor		1/22/2028	13	53	48	54
Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)					48	54

Overlapping constuction	Overlap Period Start			Project sound level (Leq	Existing daytime ambient sound level	Combined project and existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(with helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 500 kV						
Transposition						
Structures: Structure						
and Conductor						
Installation (helo)	2/26/2028	2/28/2028	2	52.3	48	53.7
Min sound level	48					
Max sound level	55					
Project days	607					
Days above 55 dBA	0					
Percentage of days						
above 55 DBA	0%					

Alternative 2 Overlapping	I Noise Levels at NR6 with N	MM NOI-1 and MM NOI-2				
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:		•		,		
Site development	5/1/2026	5/31/2026	26	45	30	45
Collinsville Substation: Site development, 12 kV						
distribution	6/1/2026	7/15/2026	39	45	30	45
Collinsville Substation:						
Site development	7/16/2026	8/31/2026	40	45	30	45
Collinsville Substation: Site development, Collinsville Substation:						
Below-grade	9/1/2026	9/14/2026	12	48	30	49
Collinsville Substation:						
Below-grade	9/15/2026	12/31/2026	127	46	30	46
Collinsville Substation: Below-grade + PG&E IT						
Work	1/1/2027	2/9/2027	34	46	30	46
Collinsville Substation: Below-grade, Collinsville Substation: Above-grade + PG&E IT Work	2/10/2027	2/24/2027	13	49	30	49
Collinsville Substation:						
Above-grade + PG&E IT	a					
Work	2/25/2027	4/30/2027	56	46	30	46
Collinsville Substation: Above-grade, 230 kV overhead: access road + PG&E IT Work	5/1/2027	5/16/2027	13	48	30	48
Collinsville Substation: Above-grade, 230 kV overhead: access road, 500 kV interconnection: structure foundation installation + PG&E IT Work	5/17/2027	5/19/2027	3	54	30	54
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/2027	5/31/2027	10		30	
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/1/2027	6/7/2027			30	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&EIT Work	6/8/2027	6/10/2027	3	51	30	51

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/11/2027	6/14/2027	3	51	30	51
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT						
Work Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/15/2027	6/30/2027	14	64	30	64
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	7/28/2027	8/29/2027	28		30	50
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/30/2027	8/31/2027	26		30	51
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/1/2027	9/28/2027	24	51	30	51
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/29/2027	10/19/2027	18	49	30	49

Existing daytime						Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/2027	10/30/2027	10	54	30	54
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), Northern Transition Approach	10/31/2027	11/29/2027	25	54	30	54
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter)	11/30/2027	1/7/2028			30	53
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kVTransposition Structures: Structure and Conductor						
Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor		1/22/2028	13	69	30	69
and Conductor Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)					30	

Overlapping constuction	Overlap Period Start			Project sound level (Leq	Existing daytime ambient sound level	Combined project and existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(with helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 500 kV						
Transposition						
Structures: Structure						
and Conductor						
Installation (helo)	2/26/2028	2/28/2028	2	69	30	69
Min sound level	45					
Max sound level	69					
Project days	607					
Days above 55 dBA	87					
Percentage of days						
above 55 DBA	14%					

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Alternative 2 Overlapping	I Noise Levels at NR1 with N	l 4M NOI-1, MM NOI-2, and	MM NOI-4			
•	Constant Production			B	Existing daytime	Combined project and
Overlapping constuction activities	Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	(NM2) (Leq dBA)	existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site development	5/1/2026	5/31/2026	26	31	48	48
Collinsville Substation: Site development, 12 kV						
distribution	6/1/2026	7/15/2026	39	38	48	48
Collinsville Substation:						
Site development	7/16/2026	8/31/2026	40	31	48	48
Collinsville Substation: Site development,						
Collinsville Substation:						
Below-grade	9/1/2026	9/14/2026	12	34	48	48
Collinsville Substation: Below-grade	9/15/2026	12/31/2026	127	32	48	48
Collinsville Substation:	0/10/2020	12/01/2020	127	- 52	40	
Below-grade + PG&E IT						
Work	1/1/2027	2/9/2027	34	32	48	48
Collinsville Substation:						
Below-grade, Collinsville						
Substation: Above-grade						
+ PG&E IT Work	2/10/2027	2/24/2027	13	34	48	48
Collinsville Substation: Above-grade + PG&E IT						
Work	2/25/2027	4/30/2027	56	29	48	48
Collinsville Substation:						
Above-grade, 230 kV						
overhead: access road + PG&E IT Work	5/1/2027	5/16/2027	13	45	48	50
Collinsville Substation:					·	
Above-grade, 230 kV						
overhead: access road,						
500 kV interconnection: structure foundation						
installation + PG&E IT						
Work	5/17/2027	5/19/2027	3	45	48	50
Collinsville Substation:						
Above-grade, 230 kV						
overhead: access road, 230 kV overhead:						
structure foundation						
installation, 500 kV						
interconnection: structure foundation						
installation + PG&E IT						
Work	5/20/2027	5/31/2027	10	49	48	52
Collinsville Substation:						
Above-grade, 230 kV						
overhead: access road, 230 kV overhead:						
structure foundation						
installation, 500 kV						
interconnection:						
structure foundation installation, 500 kV						
Transposition						
Structures: Foundation						
Installation + PG&E IT Work	6/1/2027	6/7/2027	6	49	48	52
	5, 1, 2027	5,77,2027		40	40	52
Collinsville Substation: Above-grade, 230 kV						
overhead: structure						
foundation installation,						
500 kV interconnection: structure foundation						
installation, 500 kV						
Transposition						
Structures: Foundation						
Installation + PG&E IT Work	6/8/2027	6/10/2027	3	51	48	53
	5, 5, 2527	3, 10, 2027		, 31	1 40	

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/11/2027	6/14/2027	3	50	48	52
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT	0.13.23			33		
Work Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/15/2027	6/30/2027	14		48	51
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	7/28/2027	8/29/2027	28		48	55
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/30/2027	8/31/2027	26			55
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/1/2027	9/28/2027	24	55	48	55
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/29/2027	10/19/2027	18	54	48	55

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/2027	10/30/2027	10	56	48	57
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), Northern Transition Approach	10/31/2027	11/29/2027	25	56	48	57
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter)	11/30/2027	1/7/2028	34	53	48	54
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (with helicopter), 500 kV interconnection: conductor installation (with out helicopter), 500 kV Transposition Structures: Structure and Conductor						
Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure		1/22/2028	13	53	48	54
and Conductor Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)					48	54

Overlapping constuction activities		Overlap Period End Date		Project sound level (Leq	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 500 kV Transposition Structures: Structure and Conductor						
Installation (helo)	2/26/2028	2/28/2028	2	52.3	48	53.7
Min sound level Max sound level	48					
Project days	607					
Days above 55 dBA	35					
Percentage of days above 55 DBA	6%					

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Alternative 2 Overlapping	L Noise Levels at NR6 with N	MM NOI-1, MM NOI-2, and	MM NOI-4			
Overlapping constuction	Overday Barried Start			Duniant annual lavel (I am	Existing daytime	Combined project and
activities	Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	(NM2) (Leq dBA)	existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site development Collinsville Substation:	5/1/2026	5/31/2026	26	45	30	45
Site development, 12 kV						
distribution	6/1/2026	7/15/2026	39	62	30	62
Collinsville Substation:	7/10/0000	0/04/0000	40	45	20	45
Site development Collinsville Substation:	7/16/2026	8/31/2026	40	45	30	45
Site development,						
Collinsville Substation:						
Below-grade Collinsville Substation:	9/1/2026	9/14/2026	12	48	30	49
Below-grade	9/15/2026	12/31/2026	127	46	30	46
Collinsville Substation:						
Below-grade + PG&E IT	4/4/0007	0/0/0007		40	00	40
Work	1/1/2027	2/9/2027	34	46	30	46
Collinsville Substation:						
Below-grade, Collinsville						
Substation: Above-grade	2/10/2027	2/24/2027	12	48	30	40
+ PG&E IT Work Collinsville Substation:	2/10/2027	2/24/2027	13	40	30	48
Above-grade + PG&E IT						
Work	2/25/2027	4/30/2027	56	43	30	43
Collinsville Substation: Above-grade, 230 kV						
overhead: access road +						
PG&E IT Work	5/1/2027	5/16/2027	13	47	30	47
Collinsville Substation:						
Above-grade, 230 kV overhead: access road,						
500 kV interconnection:						
structure foundation						
installation + PG&E IT Work	5/17/2027	5/19/2027	3	53	30	53
	0/1//202/	0/10/2027	<u> </u>	00		
Collinsville Substation: Above-grade, 230 kV						
overhead: access road,						
230 kV overhead: structure foundation						
installation, 500 kV						
interconnection:						
structure foundation installation + PG&E IT						
Work	5/20/2027	5/31/2027	10	54	30	54
Collinsville Substation:						
Above-grade, 230 kV						
overhead: access road,						
230 kV overhead: structure foundation						
installation, 500 kV						
interconnection:						
structure foundation installation, 500 kV						
Transposition						
Structures: Foundation						
Installation + PG&E IT Work	6/1/2027	6/7/2027	6	66	30	66
Collinsville Substation:						
Above-grade, 230 kV						
overhead: structure						
foundation installation, 500 kV interconnection:						
structure foundation						
installation, 500 kV						
Transposition Structures: Foundation						
Installation + PG&E IT						
Work	6/8/2027	6/10/2027	3	71	30	71

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/11/2027	6/14/2027	3	71	30	71
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT			144			
Work Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + PG&E IT Work	6/15/2027	6/30/2027	23	64	30	64
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	7/28/2027	8/29/2027	28			
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&EIT Work	8/30/2027	8/31/2027	26			
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/1/2027	9/28/2027	24	50	30	50
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/29/2027	10/19/2027	18	46	30	46

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/2027	10/30/2027	10	53	30	53
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), Northern Transition Approach	10/31/2027	11/29/2027	25	53	30	53
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter)	11/30/2027	1/7/2028			30	53
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor						
Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure		1/22/2028	13	70	30	70
and Conductor Installation (helo) Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)					30	70

Overlapping constuction		0	Watatan	Project sound level (Leq	ambient sound level	Combined project and existing ambient sound
activities	Date	Overlap Period End Date	work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 500 kV Transposition Structures: Structure						
and Conductor						
Installation (helo)	2/26/2028	2/28/2028	2	69	30	69
Min sound level	43					
Max sound level	71					
Project days	607					
Days above 55 dBA	132					
Percentage of days above 55 DBA	22%					

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Alternative 4 Activities so	und Levels at NR1							
Atternative 4 Activities 50	unu Ecveto ut 14111							Combined project
							Existing ambient	activity and existing
			Distance to Component			Project sound after	daytime sound levels	ambient sound levels
Component and activity	Start date	End date	(feet)	Project sound (Leq dBA)	Insertion loss (dBA)	insertion loss (Leq dBA)	(NM2) (Leq dBA)	(Leq dBA)
Collinsville Substation:								
Site developent	5/1/26	6/1/26	3545	55		55	48	56
Colinsville Substation:								
Below-grade	7/14/26	1/14/27	3545	57		57	48	57
Collinsvile Substation:								
abovegrade	1/2/27	2/11/28	3545	53		53	48	54
230 kV overhead: access								
road	5/1/27	5/19/27	3940	48		48	48	51
2310kV								
overhead:structure								
foundation installation	5/20/27	6/15/27	3940	50		50	48	52
232 kV								
overhead:structure	0/10/07	7/15/27	3940	47		47	48	50
installation	6/16/27	//15/2/	3940	47		47	48	50
230 kV Conductor								
installation (with helicopter)	7/16/27	8/15/27	3940	61		61	48	61
230 kV Conductor	//10/2/	0/13/2/	3940	01		01	40	91
installation (without								
helicopter)	7/16/27	8/15/27	3940	55		55	48	56
230 kV submarine	7710727	0/10/2/	55-10	55			,	
segment	7/1/27	10/31/27	2750	63	10	53	48	54
Collinsville Substation:								
Site and ROW								
restoration	2/1/28	7/17/28	3090	51		51	48	53
Norhtern Transition								
Apporach	6/15/27	11/30/27	3890	40	10	30	48	48
500 kV interconnection:								
structure foundation								
installation	5/17/27	8/25/27	4025	51		51	48	53
501 kV interconnection:								
structure installation								
(with helicopter)	7/29/27	9/23/27	4025	66		66	48	66
502 kV interconnection:								
structure installation								
(without helicopter)	7/29/27	9/23/27	4025	46		46	48	50
503 kV								
interconnection:conduc								
tor installation (with helicopter)	9/24/27	11/19/27	4025	60		60	48	60
	5/24/2/	11/19/2/	4025	60		50	48	60
503 kV								
interconnection:conduc tor installation (without							ĺ	
helicopter)	9/24/27	11/19/27	4025	48		48	48	51
12 kV distribution	6/1/26	8/1/26	2351	57		57		
PG&E IT Work at	0/1/20	0/1/20	2331	37		37	40	37
Collinsville Substation	1/1/27	8/31/27	3545	50		50	48	52
orritto Gabottatibii	1/1/2/	3/01/2/	0040	- 50			40	52

October 2025

Alternative 4 Activities soun								
Atternative 4 Activities sour.		NO. 0						
	nd Levels at NR1 with MM	NOI-2						
								Combined project
			B'-1			Burtant and a few	Existing ambient	activity and existing
Component and activity S	tart data		Distance to Component (feet)	Project sound (Leq dBA)	Incortion loss (dRA)	Project sound after insertion loss (Leq dBA)	daytime sound levels	ambient sound levels (Leq dBA)
Collinsville Substation:	itait uate	Ella date	(reet)	Project Sound (LequbA)	IIISEITIOII (USS (UBA)	insertion toss (Lequba)	(NM2) (Leq dBA)	(LequbA)
Site developent	5/1/26	6/1/26	3545	45	48	50	48	48
	3/1/20	0/1/20	3040	40	40	50	40	40
Colinsville Substation: Below-grade	7/14/26	1/14/27	3545	47	48	50	48	49
Collinsvile Substation:	//14/20	1/14/2/	3343	47	40	50	40	49
abovegrade	1/2/27	2/11/28	3545	43	48	49	48	48
230 kV overhead: access	1/2/2/	2/11/20	3040	40	40	43	40	40
road	5/1/27	5/19/27	3940	48	48	51	48	50
2310kV	3/1/2/	3/13/2/	3340	40	40	- 51	40	30
overhead:structure								
foundation installation	5/20/27	6/15/27	3940	50	48	52	48	51
232 kV	0,20,2,	0/10/2/	0010		10		40	01
overhead:structure								
installation	6/16/27	7/15/27	3940	47	48	50	48	50
230 kV Conductor							·	
installation (with								
helicopter)	7/16/27	8/15/27	3940	61	48	61	48	60
230 kV Conductor								
installation (without								
helicopter)	7/16/27	8/15/27	3940	51	48	53	48	55
230 kV submarine								
segment	7/1/27	10/31/27	2750	53	48	54	48	54
Collinsville Substation:								
Site and ROW								
restoration	2/1/28	7/17/28	3090	51	48	53	48	49
Norhtern Transition								
Apporach	6/15/27	11/30/27	3890	36	48	48	48	48
500 kV interconnection:								
structure foundation								
installation	5/17/27	8/25/27	4025	51	48	53	48	49
501 kV interconnection:								
structure installation								
(with helicopter)	7/29/27	9/23/27	4025	66	48	66	48	59
502 kV interconnection:								
structure installation	7/00/07	0.000.07	4005	40	40		40	40
(without helicopter)	7/29/27	9/23/27	4025	46	48	50	48	49
503 kV								
interconnection:conduc tor installation (with								
helicopter)	9/24/27	11/19/27	4025	60	48	60	48	54
503 kV	3124121	11/13/2/	4025	60	40	60	40	54
interconnection:conduc								
tor installation (without								
helicopter)	9/24/27	11/19/27	4025	48	48	51	48	49
12 kV distribution	6/1/26	8/1/26	2351	57	48	57	48	50
PG&E IT Work at	3/1/20	3/1/20	2551	37	40	37	40	30
Collinsville Substation	1/1/27	8/31/27	3545	40	48	49	48	48

						1	1	1
Alternative 4 Activities so	und Levels at NR2							
Atternative 4 Activities 30	und Levels at MM2							Combined project
							Existing ambient	activity and existing
			Distance to Component			Project sound after	daytime sound levels	ambient sound levels
Component and activity	Start date		(feet)	Project sound (Leq dBA)	Insertion loss (dBA)	insertion loss (Leq dBA)		(Leq dBA)
Collinsville Substation:			,				, , , , , , , , , , , , , , , , , , ,	1
Site developent	5/1/26	6/1/26	3787	55		55	48	56
Colinsville Substation:								
Below-grade	7/14/26	1/14/27	3787	56		56	48	57
Collinsvile Substation:								
abovegrade	1/2/27	2/11/28	3787	56		56	48	57
230 kV overhead: access								
road	5/1/27	5/19/27	4990	46		46	48	50
2310kV								
overhead:structure								
foundation installation	5/20/27	6/15/27	4990	48		48	48	51
232 kV								
overhead:structure								
installation	6/16/27	7/15/27	4990	44		44	48	50
230 kV Conductor								
installation (with								
helicopter)	7/16/27	8/15/27	4990	59		59	48	59
230 kV Conductor								
installation (without								
helicopter)	7/16/27	8/15/27	4990	53		53	48	54
230 kV submarine								
segment	7/1/27	10/31/27	3965	60	10	50	48	52
Collinsville Substation:								
Site and ROW								
restoration	2/1/28	7/17/28	3200	50		50	48	52
Norhtern Transition	0/45/07	11/00/07	C01E	44	10	24	40	40
Apporach	6/15/27	11/30/27	6015	44	10	34	48	48
500 kV interconnection:								
structure foundation installation	5/17/27	8/25/27	4070	51		51	48	53
501 kV interconnection:	3/1//2/	0/23/2/	4070	31		31	40	33
structure installation								
(with helicopter)	7/29/27	9/23/27	4070	66		66	48	66
502 kV interconnection:	1120121	3/20/2/	40/0	00			40	
structure installation								
(without helicopter)	7/29/27	9/23/27	4070	46		46	48	50
503 kV	20/2/	2.20/2/	4070					-
interconnection:conduc							ĺ	
tor installation (with								1
helicopter)	9/24/27	11/19/27	4070	60		60	48	60
503 kV								
interconnection:conduc							ĺ	ĺ
tor installation (without							ĺ	ĺ
helicopter)	9/24/27	11/19/27	4070	48		48	48	51
12 kV distribution	6/1/26	8/1/26	1331	62		62	48	62
PG&E IT Work at								
Collinsville Substation	1/1/27	8/31/27	3787	3787		50	48	52

	ı	ı	ı	ı			1	1
Alternative 4 Activities so	und Levels at NR2 with MM	I NOL 2						
Atternative 4 Activities so	und Levets at NR2 with MM	I NUI-2						
							Existing ambient	Combined project activity and existing
Component and activity	Start date	End date	Distance to Component (feet)	Project sound (Leq dBA)	Insertion loss (dRA)	Project sound after insertion loss (Leq dBA)	daytime sound levels (NM2) (Leq dBA)	ambient sound levels (Leq dBA)
Collinsville Substation:	otart date	End date	(1001)	r roject sound (EcqubA)	inscritori toss (ubA)	mscrtton toss (Ecq ubA)	(III 12) (Ecq ubA)	(Ecquba)
Site developent	5/1/26	6/1/26	3787	55	10	45	48	50
Colinsville Substation:	0/1/20	0,120	0,0,		10	40	40	
Below-grade	7/14/26	1/14/27	3787	56	10	46	48	50
Collinsvile Substation:	771-1720	2/24/2/	0,0,	00	10	70		
abovegrade	1/2/27	2/11/28	3787	56	10	46	48	50
230 kV overhead: access	1/2/2/	2/11/20	0,0,	00	10	-	,	
road	5/1/27	5/19/27	4990	46		46	48	50
2310kV	0/1/2/	0/10/2/	4000			70		
overhead:structure								
foundation installation	5/20/27	6/15/27	4990	48		48	48	51
232 kV								-
overhead:structure								
installation	6/16/27	7/15/27	4990	44		44	48	50
230 kV Conductor								
installation (with								
helicopter)	7/16/27	8/15/27	4990	58		58	48	59
230 kV Conductor								
installation (without								
helicopter)	7/16/27	8/15/27	4990	49		49	48	51
230 kV submarine								
segment	7/1/27	10/31/27	3965	60	10	50	48	52
Collinsville Substation:								
Site and ROW								
restoration	2/1/28	7/17/28	3200	50		50	48	52
Norhtern Transition								
Apporach	6/15/27	11/30/27	6015	48	10	38	48	48
500 kV interconnection:								
structure foundation								
installation	5/17/27	8/25/27	4070	51		51	48	53
501 kV interconnection:								
structure installation								
(with helicopter)	7/29/27	9/23/27	4070	66		66	48	66
502 kV interconnection:								
structure installation								
(without helicopter)	7/29/27	9/23/27	4070	46		46	48	50
503 kV							ĺ	
interconnection:conduc							ĺ	
tor installation (with	0/04/07	11/10/07	4070	00			48	
helicopter)	9/24/27	11/19/27	4070	60		60	48	60
503 kV							ĺ	
interconnection:conduc							ĺ	
tor installation (without	9/24/27	11/19/27	4070	40		40	40	F4
helicopter) 12 kV distribution	6/1/26	8/1/26	1331	48		48 62	48	
PG&EIT Work at	6/1/26	8/1/26	1331	62		62	48	62
	1/1/27	8/31/27	3787	3787	10	50	48	
Collinsville Substation	1/1/2/	8/31/2/	3/8/	3/8/	10	50	48	52

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Alternative 4 Overlapping	Noise Levels at NR1					
Overlapping constuction	Overlap Period Start			Project sound level (Leq	Existing daytime ambient sound level	Combined project and existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsville Substation:						
Site developent	5/1/2026 6/1/2026		26 37		48	
12 kV distribution Colinsville Substation:	6/1/2026	//14/2026	3/	5/	48	5/
Below-grade + 12 kV distribution	7/14/2026	8/1/2026	16	60	48	60
Colinsville Substation: Below-grade	8/1/2026	12/31/2026	132	57	48	57
Colinsville Substation: Below-grade + PG&E IT	0/1/2020	12/01/2020	102	37	40	37
Work	1/1/2027	1/2/2027	2	53	48	54
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT						
Work	1/2/2027	1/14/2027	10	59	48	59
Collinsvile Substation: abovegrade + PG&E IT	1/14/0007	5/1/2027	00		400	
Work Collinsvile Substation: abovegrade + 230 kV	1/14/2027	5/1/2027	92	55	48	56
overhead: access road + PG&E IT Work	5/1/2027	5/17/2027	13	56	48	57
Collinsvile Substation: abovegrade + 230 kV	0/1/2027	0/1//2027	10			<i>S7</i>
overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT						
Work	5/17/2027	5/19/2027	2	57	48	58
Collinsvile Substation: abovegrade + 500 kV interconnection: structure foundation installation + PG&E IT						
Work	5/19/2027	5/20/2027	1	57	48	57
Collinsvile Substation: abovegrade + 230 kV overhead:structure foundation installation + 500 kV interconnection + PG&E IT Work: structure						
foundation installation	5/20/2027	6/15/2027	22	57	48	58
Collinsvile Substation: abovegrade + Norhtern Transition Apporach + 500 kV interconnection: structure foundation installation + PG&E IT Work	6/15/2027	6/16/2027	1	57	48	57
	0/15/2027	0/10/2027	1	5/	48	5/
Collinsvile Substation: abovegrade + 232 kV overhead:structure installation + Norhtern Transition Apporach + 500 kV interconnection: structure foundation						
installation + PG&E IT Work	6/16/2027	7/1/2027	13	57	48	58
VV OI K	6/16/202/	//1/202/	13	5/	1 48	58

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsvile Substation:						
abovegrade + 232 kV						
overhead:structure						
installation + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT	7/4/0007	7/45/0007	40		40	
Work	7/1/2027	7/15/2027	12	59	48	59
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	7/15/2027	7/16/2027	1	58	48	59
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation						
(with helicopter) +						
Submarine cable +						
Norhtern Transition						
Apporach + 500 kV						
interconnection:						
structure foundation						
installation + PG&E IT	7/40/0007	7/00/0007	44		40	
Work	7/16/2027	7/29/2027	11	63	48	63
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation						
(with helicopter) +						
Submarine cable +						
Norhtern Transition						
Apporach + 500 kV						
interconnection:						
structure foundation installation + 501 kV						
interconnection:						
structure installation						
(with helicopter) + PG&E						
IT Work	7/29/2027	8/15/2027	15	68	48	68
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + 501 kV						
interconnection:						
structure installation						
(with helicopter) + PG&E IT Work	8/15/2027	8/25/2027	8	67	48	67
	· · · · ·	· /=-			-	
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
501 kV interconnection:						
structure installation						
(with helicopter) + PG&E						
ITWork	8/25/2027	8/31/2027	25	67	48	67

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach Collinsvile Substation: abovegrade + Submarine cable + Norhtern						
Transition Apporach	9/1/2027	9/23/2027	20	66	48	66
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach	9/23/2027	9/24/2027	1	56	48	57
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection:conduc tor installation (with						
helicopter)	9/24/2027	10/31/2027	32	62	48	62
Collinsvile Substation: abovegrade + Norhtern Transition Apporach + 500 kV interconnection:conduc tor installation (with						
helicopter)	10/31/2027	11/19/2027	16	61	48	61
Collinsvile Substation: abovegrade + Norhtern Transition Apporach	11/19/2027	11/30/2027	9	53	48	54
Collinsvile Substation:	11/30/2027	2/1/2020	54	E2	48	54
abovegrade Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration	2/1/2028	2/11/2028	9	53	48	56
Collinsville Substation: Site and ROW restoration	2/11/2028	7/17/2028	134	50.8	48	52.60
Min noise level	52.6					
Max noise level	67.7					
Project days	714					
Days above 55 dBA	515					
Percentage of days above 55 dBA	72%					

Alternative 2 Overlapping	Noise Levels at NR1					
					Existing daytime	Combined project and
Overlapping constuction				Project sound level (Leq		existing ambient sound
	Date	Overlap Period End Date	Work days	dBA)	(Leq dBA)	level (Leq dBA)
Collinsville Substation: Site developent	5/1/2026	6/1/2026	26	55	48	56
12 kV distribution	6/1/2026	7/14/2026	26 37	62	48	56 62
Colinsville Substation:	0/1/2020	7/14/2020	37	02	40	02
Below-grade + 12 kV						
distribution	7/14/2026	8/1/2026	16	63	48	63
Colinsville Substation:						
Below-grade	8/1/2026	12/31/2026	132	56	48	57
Colinsville Substation:						
Below-grade + PG&E IT	1/1/2027	1/0/0007	2	EG	40	E-7
Work	1/1/2027	1/2/2027		56	48	57
Colinsville Substation: Below-grade +						
Collinsvile Substation:						
abovegrade + PG&E IT						
Work	1/2/2027	1/14/2027	10	60	48	60
Collinsvile Substation:						
abovegrade + PG&E IT						
Work	1/14/2027	5/1/2027	92	57	48	58
Collinsvile Substation:						
abovegrade + 230 kV overhead: access road +						
PG&E IT Work	5/1/2027	5/17/2027	13	57	48	58
Collinsvile Substation:	0,1,202,	5/1//202/	10	<u> </u>		- 55
abovegrade + 230 kV						
overhead: access road +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT	F /47/0007	F (40 (0007	2		40	50
Work	5/17/2027	5/19/2027	2	58	48	59
Collinsvile Substation:						
abovegrade + 500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	5/19/2027	5/20/2027	1	58	48	58
Collinsvile Substation:						
abovegrade + 230 kV						
overhead:structure						
foundation installation + 500 kV interconnection +						
PG&E IT Work: structure						
foundation installation	5/20/2027	6/15/2027	22	58	48	59
Collinsvile Substation:						
abovegrade + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT	6/15/0007	6/46/0007	4		40	50
Work	6/15/2027	6/16/2027	1	58	48	58
Collinsvile Substation:						
abovegrade + 232 kV						
overhead:structure installation + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	6/16/2027	7/1/2027	13	58	48	59

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsvile Substation:						
abovegrade + 232 kV						
overhead:structure						
installation + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	7/1/2027	7/15/2027	12	59	48	59
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT	7/45/0007	7/40/0007	_		40	
Work	7/15/2027	7/16/2027	1	59	48	59
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation						
(with helicopter) +						
Submarine cable +						
Norhtern Transition						
Apporach + 500 kV						
interconnection: structure foundation						
installation + PG&E IT						
Work	7/16/2027	7/29/2027	11	62	48	62
WOIK	7/10/2027	712312021	11	02	46	02
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation						
(with helicopter) +						
Submarine cable +						
Norhtern Transition						
Apporach + 500 kV						
interconnection:						
structure foundation						
installation + 501 kV						
interconnection: structure installation						
(with helicopter) + PG&E						
IT Work	7/29/2027	8/15/2027	15	67	48	67
	772072027	0,10,202,		9.		9.
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + 501 kV						
interconnection:						
structure installation						
(with helicopter) + PG&E						
IT Work	8/15/2027	8/25/2027	8	67	48	67
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
501 kV interconnection:						
structure installation						
(with helicopter) + PG&E	0/05/0007	0/01/0007	0.5	66	48	67
ITWork	8/25/2027	8/31/2027	25	66	48	67

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach Collinsvile Substation: abovegrade + Submarine cable + Norhtern						
Transition Apporach	9/1/2027	9/23/2027	20	66	48	66
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach	9/23/2027	9/24/2027	1	57	48	58
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection:conduc tor installation (with						
helicopter)	9/24/2027	10/31/2027	32	62	48	62
Collinsvile Substation: abovegrade + Norhtern Transition Apporach + 500 kV interconnection:conduc tor installation (with						
helicopter)	10/31/2027	11/19/2027	16	61	48	62
Collinsvile Substation: abovegrade + Norhtern Transition Apporach	11/19/2027	11/30/2027	9	56	48	57
Collinsvile Substation:	44/00/000	0/4/0000				
abovegrade	11/30/2027	2/1/2028	54	56	48	57
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration	2/1/2028	2/11/2028	9	57	48	58
Collinsville Substation: Site and ROW restoration	2/11/28	7/17/28	134	50	48	52
	2.11/20	,,17720	104		40	02
Min noise level	52					
Max noise level	67.4					
Project days	714					
Days above 55 dBA	580					
Percentage of days above 55 dBA	81%					

				1		1
Alternative 4 Overlapping	Noise Levels at NR1 with N	MM NOI-1				
					Existing daytime	Combined project and
Overlapping constuction		0	Modelatore	Project sound level (Leq		existing ambient sound
activities Collinsville Substation:	Date	Overlap Period End Date	work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Site developent	5/1/2026	6/1/2026	26	55	48	56
12 kV distribution	6/1/2026		37		48	
Colinsville Substation:						
Below-grade + 12 kV						
distribution	7/14/2026	8/1/2026	16	60	48	60
Colinsville Substation: Below-grade	8/1/2026	12/31/2026	132	57	48	57
Colinsville Substation:	6/1/2020	12/31/2020	102	37	40	37
Below-grade + PG&E IT						
Work	1/1/2027	1/2/2027	2	58		
Colinsville Substation:						
Below-grade +						
Collinsvile Substation:						
abovegrade + PG&E IT Work	1/2/2027	1/14/2027	10	59	48	59
Collinsvile Substation:	1/2/2027	1/ 14/202/	10	39	40	39
abovegrade + PG&E IT						
Work	1/14/2027	5/1/2027	92	55	48	56
Collinsvile Substation:						
abovegrade + 230 kV						
overhead: access road +	F /4 /0007	F /47/0007	40		40	
PG&E IT Work	5/1/2027	5/17/2027	13	56	48	57
Collinsvile Substation:						
abovegrade + 230 kV overhead: access road +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	5/17/2027	5/19/2027	2	57	48	58
Collinsvile Substation:						
abovegrade + 500 kV						
interconnection: structure foundation						
installation + PG&E IT						
Work	5/19/2027	5/20/2027	1	57	48	57
Collinsvile Substation:						
abovegrade + 230 kV						
overhead:structure						
foundation installation + 500 kV interconnection +						
PG&E IT Work: structure						
foundation installation	5/20/2027	6/15/2027	22	57	48	58
Collinsvile Substation:						
abovegrade + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation installation + PG&E IT						
Work	6/15/2027	6/16/2027	1	57	48	57
Collinsvile Substation:	-	-				
abovegrade + 232 kV						
overhead:structure						
installation + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation installation + PG&E IT						
Work	6/16/2027	7/1/2027	13	57	48	58
K	0/10/202/	77112027	13		40	1 30

					Estation destina	O and blood and and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation:						
abovegrade + 232 kV						
-						
overhead:structure						
installation + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	7/1/2027	7/15/2027	12	59	48	59
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	7/15/2027	7/16/2027	1	58	48	59
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation						
(without helicopter) +						
Submarine cable +						
Norhtern Transition						
Apporach + 500 kV						
interconnection:						
structure foundation						
installation + PG&E IT						
Work	7/16/2027	7/29/2027	11	60	48	60
					·	
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation						
(without helicopter) +						
Submarine cable +						
Norhtern Transition						
Apporach + 500 kV						
interconnection:						
structure foundation						
installation + 501 kV						
interconnection:						
structure installation						
(without helicopter) +						
PG&E IT Work	7/29/2027	8/15/2027	15	60	48	61
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + 501 kV						
interconnection:						
structure installation						
(without helicopter) + PG&E IT Work	8/15/2027	8/25/2027	8	59	48	59
. Jakii Work	0/10/2027	0/20/2027		39	40	39
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
501 kV interconnection:						
structure installation						
(without helicopter) +						
PG&E IT Work	8/25/2027	8/31/2027	25	58	48	58
	•					

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach	9/1/2027	9/23/2027	20	66	48	66
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach	9/23/2027	9/24/2027	1	56	48	57
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection:conduc tor installation (without helicopter)	9/24/2027	10/31/2027	32	57	48	57
Collinsvile Substation: abovegrade + Norhtern Transition Apporach + 500 kV interconnection:conduc tor installation (without						
helicopter) Collinsvile Substation: abovegrade + Norhtern Transition Apporach	10/31/2027	11/19/2027	16	55	48	55 55
Collinsvile Substation:	11/30/2027	2/1/2028	54	53		54
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration	2/1/2028	2/11/2028	9	55	48	56
Collinsville Substation: Site and ROW restoration	2/11/28	7/17/28	134	51	48	53
Min sound level Max sound level Project days Days above 55 dBA	53 66 714 499					
Percentage of days above DBA	70%					

Collimonia Substation: Series Collimonia Substation: Series Serie							
Posted principal conduction Overlap Period End Date Vovil days Continued Continu	Alternative 4 Overlapping	Noise Levels at NR2 with N	MM NOI-1				
Collination Substation: Sr12000 Sr12000 26 S4.6 48 5 S S S S S S S S S			Overlap Period End Date	Work days		ambient sound level	existing ambient sound
Collinative States atton:							
Six development - 12W destruction		5/1/2026	5/31/2026	26	54.6	48	56
Collinaville Substation: Solidation: Solid							
Sist development		6/1/2026	7/15/2026	39	61.7	48	62
Cellinarial Substation Solid Substation Cellinarial Substation Cellinarial Substation Bellinary agade BY28/2026 BY28/2027 107 57 48 5 Cellinarial Substation BY28/2027 107 57 48 5 Cellinarial Substation Substation Description Descripti		7/16/2026	8/13/2026	25	62.8	48	63
Colinaville Substation: Britanger Br	,						
Belowgrade \$1/47/202	· ·						
Belone gage Belone gage B/29/2026 1/22/2027 107 57 48 5		8/14/2026	8/28/2026	13	56.1	48	57
Colinewills Substation							
Blotw-grade + PG&E IT work at Collinsville Substation		8/29/2026	1/22/2027	107	57	48	58
Substation 1/1/2027 1/22/2027 19 59.6 48 6 Collinative Substation: Below grade - Collinative Substation: showegade + PG&EIT work at Collinative Substation: sho							
Collinsville Substation: Refour grade- Group		4/4/0007	4 (00 (0007	40	50.0	40	
Below-grade		1/1/202/	1/22/202/	19	59.6	48	60
Collinsvile Substation: abovegrade + PO&EIT work at Collinsvile Substation 2/6/2027 4/30/2027 72 57.3 48 5 Collinsvile Substation: abovegrade + 230 KV overhead: access road + PO&EIT work at Collinsvile Collinsvile Substation: abovegrade + 230 KV overhead: access road + SO KV overhead: access road + SO KV interconnection: structure foundation instaliation + PO&EIT work at Collinsvile Substation: abovegrade + 230 KV overhead: access road + SO KV interconnection: structure foundation instaliation + PO&EIT work at Collinsvile Substation: abovegrade + 230 KV overhead: access road + SO KV interconnection: structure foundation instaliation + PO&EIT work at Collinsvile Substation: abovegrade + 230 KV overhead: access road + SO KV interconnection: structure foundation instaliation + SO KV interconnection: structure foundation instaliation + SO KV interconnection: structure foundation instaliation + PO&EIT work at Collinsvile Substation: abovegrade + 230 KV overhead: structure foundation instaliation + PO&EIT work at Collinsvile Substation: abovegrade + 230 KV overhead: structure foundation instaliation + SO KV interconnection: structure foundation ins	Below-grade + Collinsvile Substation: abovegrade + PG&E IT work at Collinsville	1/23/2027	2/5/2027	12	57	48	58
work at Collinsville Substation 2/6/2027 4/30/2027 72 57.3 48 5 Collinsville Substation: abovegade + 230 KV overhead: access road + Po&E IT work at Collinsville Substation abovegade + 230 KV overhead: access road + 500 KV interconnection: structure foundation installation + Po&E IT work at Collinsville Substation 5/17/2027 5/19/2027 3 5/8 48 5 Collinsville Substation: abovegade + 230 KV overhead: access road + 200 KV overhead: acc		1/20/2027	27072027	12	07	40	00
Collinsvile Substation: abovegade + 230 KV overhead: access road + PG&E IT work at Collinsvile Substation	work at Collinsville	0/0/0027	4/00/0007	70	57.0	40	
Collinsville Substation 5/1/2027 5/16/2027 13 58.2 48 5 Collinsville Substation: abovegrade + 220kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&EIT work at Collinsville Substation abovegrade + 220kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&EIT work at Collinsville Substation abovegrade + 220kV overhead: access road + 220kV overhead: a	Collinsvile Substation: abovegrade + 230 kV	21012021	4/00/2027	12	37.3	70	30
abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation = 5/17/2027		5/1/2027	5/16/2027	13	58.2	48	59
abovegrade + 230 kV overhead: access road + 230 kV overhead: structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation Collinsvile Substation: abovegrade + 230 kV overhead: structure foundation installation + 500 kV interconnection: structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation: 5/22/2027 6/10/2027 17 58 48 5 Collinsvile Substation: abovegrade + 230 kV overhead: structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation 5/22/2027 6/10/2027 17 58 48 5 Collinsvile Substation: abovegrade + 230 kV overhead: structure	abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation + PG&E IT work at Collinsville	5/17/2027	5/19/2027	3	58	48	58
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation Solution Solu	abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville	5/00/0007	F/04/0007			40	
abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville Substation 5/22/2027 6/10/2027 17 58 48 5 COllinsvile Substation: abovegrade + 230kV overhead:structure		5/20/2027	5/21/2027	2	58.4	48	59
Collinsvile Substation: abovegrade + 230kV overhead:structure	abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT work at Collinsville	5/22/2027	6/10/2027	17	5,2	ЯΝ	58
foundation installation +	Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation +	J1 EU EU EI	3/10/2027	1/	30	40	30
PG&E IT work at Collinsville Substation 6/11/2027 6/14/2027 3 58.2 48 5		6/11/2027	6/14/2027	3	58.2	48	59

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	6/15/2027	6/30/2027	14	58.8	48	59
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	7/1/2027	8/2/2027	28	58.7	48	59
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + PG&E IT work at Collinsville Substation	8/3/2027	8/31/2027	25	59.7	48	60
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition						
Apporach Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	9/1/2027	10/18/2027	41	59.9	48	59
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/2027	10/30/2027	10	58.1	48	59
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/2027	11/29/2027	25	66.3	48	66
Collinsvile Substation: abovegrade + 230 kV Conductor installation						
(without helicopter) Collinsvile Substation: abovegrade	11/30/2027 12/6/2027	12/5/2027 1/17/2028	5 37		48	58 58
Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	1/18/2028	1/31/2028	12	56.8	48	57

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation:						
abovegrade + Collinsville						
Substation: Site and						
ROW restoration + 500						
kV interconnection:						
structure installation						
(without helicopter) +						
500 kV						
interconnection:conduc						
tor installation (without						
helicopter)	2/1/2028	2/14/2028	12	56.2	48	57
Collinsville Substation:						
Site and ROW						
restoration + 500 kV						
interconnection:						
structure installation						
(without helicopter) +						
500 kV						
interconnection:conduc						
tor installation (without						
helicopter)	2/15/2028	2/24/2028	9	56.1	48	57
Collinsville Substation:						ļ
Site and ROW						
restoration	2/25/2028	7/17/2028	123		48	58
				50.1	48	52.2
Max sound level	52					
Project days	66					
Days above 55 dBA	714					
Percentage of days						
above DBA	580					
	81%					

Alternative 4 Overlapping	Noise Levels at NR1 with N	MM NOI-2				
Overlapping constuction	Overlap Period Start			Project sound level (Leq	Existing daytime ambient sound level	Combined project and existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsville Substation:	5/4/0000	0/4/0000				
Site developent 12 kV distribution	5/1/2026 6/1/2026			45 57	48	50 57
Colinsville Substation:	0/1/2020	7/14/2020	37	37	40	37
Below-grade + 12 kV distribution	7/14/2026	8/1/2026	16	57	48	58
Colinsville Substation:						
Below-grade	8/1/2026	12/31/2026	132	47	48	50
Colinsville Substation: Below-grade + PG&E IT						
Work	1/1/2027	1/2/2027	2	43	48	49
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT Work	1/2/2027	1/14/2027	10	49	48	52
Collinsvile Substation:						
abovegrade + PG&E IT						
Work	1/14/2027	5/1/2027	92	45	48	50
Collinsvile Substation: abovegrade + 230 kV overhead: access road +						
PG&E IT Work	5/1/2027	5/17/2027	13	50	48	52
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT						
Work	5/17/2027	5/19/2027	2	54	48	55
Collinsvile Substation: abovegrade + 500 kV interconnection: structure foundation installation + PG&E IT						
Work	5/19/2027	5/20/2027	1	52	48	54
Collinsvile Substation: abovegrade + 230 kV overhead:structure foundation installation + 500 kV interconnection + PG&E IT Work: structure						
foundation installation	5/20/2027	6/15/2027	22	54	48	55
Collinsvile Substation: abovegrade + Norhtern Transition Apporach + 500 kV interconnection: structure foundation installation + PG&E IT Work	6/15/2027	6/16/2027	1	52	48	54
Collinsvile Substation: abovegrade + 232 kV overhead:structure installation + Norhtern Transition Apporach + 500 kV interconnection: structure foundation						
installation + PG&E IT	6/16/0007	7/4/0007	40		40	F 4
Work	6/16/2027	7/1/2027	13	53	48	54

					Estable a desables	O and blood and and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation:						
abovegrade + 232 kV						
overhead:structure						
installation + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	7/1/2027	7/15/2027	12	56	48	57
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	7/15/2027	7/16/2027	1	56	48	56
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation						
(with helicopter) +						
Submarine cable +						
Norhtern Transition						
Apporach + 500 kV						
interconnection:						
structure foundation						
installation + PG&E IT						
Work	7/16/2027	7/29/2027	11	62	48	62
	771072027	772072027			40	02
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation						
(with helicopter) +						
Submarine cable +						
Norhtern Transition						
Apporach + 500 kV						
interconnection:						
structure foundation						
installation + 501 kV						
interconnection:						
structure installation						
(with helicopter) + PG&E						
ITWork	7/29/2027	8/15/2027	15	67	48	67
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + 501 kV						
interconnection:						
structure installation						
(with helicopter) + PG&E						
ITWork	8/15/2027	8/25/2027	8	66	48	66
Collinsvile Substation:						
abovegrade + Submarine						
-						
cable + Norhtern						
Transition Apporach +						
501 kV interconnection:						
structure installation						
(with helicopter) + PG&E						
ITWork	8/25/2027	8/31/2027	25	66	48	66
	5,20,2527	3,01,2027	23		. 40	

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach Collinsvile Substation:						
abovegrade + Submarine cable + Norhtern Transition Apporach	9/1/2027	9/23/2027	20	66	48	66
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach	9/23/2027	9/24/2027	1	54	48	55
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection:conduc tor installation (with	0/20/2027	0/24/2027				
helicopter) Collinsvile Substation: abovegrade + Norhtern Transition Apporach + 500 kV interconnection:conduc tor installation (with	9/24/2027	10/31/2027	32	61	48	
helicopter) Collinsvile Substation: abovegrade + Norhtern Transition Apporach	10/31/2027 11/19/2027	11/19/2027	16	60	48	50
Collinsvile Substation: abovegrade	11/30/2027	2/1/2028	54	43		
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration	2/1/2028	2/11/2028	9	52	48	53
Collinsville Substation: Site and ROW restoration	2/11/28	7/17/28	134	51	48	53
Min sound level Max sound level Project days	49 67 714					
Days above 55 dBA Percentage of days above 55 DBA	193 27%					

Alternative 4 Overlapping	Noise Levels at NR2 with N	1M NOI-2				
					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	ambient sound level (Leq dBA)	existing ambient sound level (Leq dBA)
Collinsville Substation:	Dute	Overtap i erioù zha bute	Work days	asrej	(Ecqubit)	tevet(Eeq abit)
Site developent	5/1/2026	6/1/2026	26	45	48	
12 kV distribution	6/1/2026	7/14/2026	37	62	48	62
Colinsville Substation: Below-grade + 12 kV						
distribution	7/14/2026	8/1/2026	16	62	48	62
Colinsville Substation:						
Below-grade	8/1/2026	12/31/2026	132	46	48	50
Colinsville Substation: Below-grade + PG&E IT						
Work	1/1/2027	1/2/2027	2	46	48	50
Colinsville Substation:						
Below-grade +						
Collinsvile Substation: abovegrade + PG&E IT						
Work	1/2/2027	1/14/2027	10	53	48	54
Collinsvile Substation:			10	33		Ţ.
abovegrade + PG&E IT						
Work	1/14/2027	5/1/2027	92	51	48	53
Collinsvile Substation: abovegrade + 230 kV						
overhead: access road +						
PG&E IT Work	5/1/2027	5/17/2027	13	52	48	54
Collinsvile Substation: abovegrade + 230 kV						
overhead: access road +						
500 kV interconnection:						
structure foundation installation + PG&E IT						
Work	5/17/2027	5/19/2027	2	55	48	56
Collinsvile Substation:						
abovegrade + 500 kV						
interconnection: structure foundation						
installation + PG&E IT						
Work	5/19/2027	5/20/2027	1	54	48	55
Collinsvile Substation:						
abovegrade + 230 kV overhead:structure						
foundation installation +						
500 kV interconnection +						
PG&E IT Work: structure						
foundation installation	5/20/2027	6/15/2027	22	55	48	56
Collinsvile Substation: abovegrade + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT Work	6/15/2027	6/16/2027	1	54	48	55
	0/10/2027	0/10/202/	1	54	46	55
Collinsvile Substation: abovegrade + 232 kV						
overhead:structure						
installation + Norhtern						
Transition Apporach +						
500 kV interconnection: structure foundation						
installation + PG&E IT						
Work	6/16/2027	7/1/2027	13	55	48	56
					-	

					Eviating dentine	O and bine displayed and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation:						
abovegrade + 232 kV						
overhead:structure						
installation + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT	7/4/0007	7/45/0007				
Work	7/1/2027	7/15/2027	12	56	48	57
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	7/15/2027	7/16/2027	1	56	48	56
	7/13/2027	//10/202/	1	30	40	30
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation						
(with helicopter) +						
Submarine cable +						
Norhtern Transition						
Apporach + 500 kV						
interconnection:						
structure foundation						
installation + PG&E IT						
Work	7/16/2027	7/29/2027	11	60	48	61
Collinsvile Substation: abovegrade + 230 kV Conductor installation (with helicopter) + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection: structure foundation installation + 501 kV						
interconnection:						
structure installation						
(with helicopter) + PG&E						
ITWork	7/29/2027	8/15/2027	15	67	48	67
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection: structure foundation installation + 501 kV interconnection: structure installation (with helicopter) + PG&E	9/45/9997	0/05/0007			40	
ITWork	8/15/2027	8/25/2027	8	66	48	66
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 501 kV interconnection: structure installation						
(with helicopter) + PG&E						
ITWork	8/25/2027	8/31/2027	25	66	48	66

					Establish danktura	O and blood made at and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach						
Collinsvile Substation: abovegrade + Submarine						
cable + Norhtern						
Transition Apporach	9/1/2027	9/23/2027	20	66	48	66
nuncition, pporuon	0, 2, 202,	0,20,202,				99
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach	9/23/2027	9/24/2027	1	52	48	53
Collinsvile Substation:						
abovegrade + Submarine						
cable + Norhtern						
Transition Apporach +						
500 kV						
interconnection:conduc						
tor installation (with helicopter)	9/24/2027	10/31/2027	32	61	48	61
, ,	9/24/2027	10/31/2027	32	01	40	01
Collinsvile Substation:						
abovegrade + Norhtern Transition Apporach +						
500 kV						
interconnection:conduc						
tor installation (with						
helicopter)	10/31/2027	11/19/2027	16	60	48	60
Collinsvile Substation:						
abovegrade + Norhtern						
Transition Apporach	11/19/2027	11/30/2027	9	47	48	50
Collinsvile Substation:						
abovegrade	11/30/2027	2/1/2028	54	46	48	50
Collinsvile Substation:						
abovegrade + Collinsville						
Substation: Site and						
ROW restoration	2/1/2028	2/11/2028	9	52	48	53
Collinsville Substation:						
Site and ROW						
restoration	2/11/2028	7/17/2028	134	50	48	52
Min noise level	50					
Max noise level	67					
Project days	714					
Days above 55 dBA	230					
Percentage of days						
above DBA	32%					

Alternative 4 Overlapping	Noise Levels at NR1 with N	MM NOI-1 and MM NOI-2				
Overlapping constuction	Overlan Beried Start			Project sound level (Leq	Existing daytime	Combined project and existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsville Substation:			-			
Site developent	5/1/2026				48	50
12 kV distribution	6/1/2026	7/14/2026	37	57	48	57
Colinsville Substation: Below-grade + 12 kV						
distribution	7/14/2026	8/1/2026	16	57	48	58
Colinsville Substation:						
Below-grade	8/1/2026	12/31/2026	132	47	48	50
Colinsville Substation: Below-grade + PG&E IT						
Work	1/1/2027	1/2/2027	2	48	48	51
Colinsville Substation:						
Below-grade + Collinsvile Substation:						
abovegrade + PG&E IT						
Work	1/2/2027	1/14/2027	10	49	48	52
Collinsvile Substation:						
abovegrade + PG&E IT Work	1/14/2027	5/1/2027	92	45	48	50
Collinsvile Substation:	1/14/2027	5/1/202/	92	45	40	50
abovegrade + 230 kV						
overhead: access road +						
PG&E IT Work	5/1/2027	5/17/2027	13	50	48	52
Collinsvile Substation:						
abovegrade + 230 kV overhead: access road +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT Work	5/17/2027	5/19/2027	2	54	48	55
Collinsvile Substation:	5,17,2527	0,10,202,	_	<u> </u>		
abovegrade + 500 kV						
interconnection:						
structure foundation installation + PG&E IT						
Work	5/19/2027	5/20/2027	1	52	48	54
Collinsvile Substation:						
abovegrade + 230 kV						
overhead:structure foundation installation +						
500 kV interconnection +						
PG&E IT Work: structure						
foundation installation	5/20/2027	6/15/2027	22	54	48	55
Collinsvile Substation: abovegrade + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT Work	6/15/2027	6/16/2027	1	52	48	54
Collinsvile Substation:	0, 10, 2027	0,10,2027	1	32	40	34
abovegrade + 232 kV						
overhead:structure						
installation + Norhtern						
Transition Apporach + 500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	6/16/2027	7/1/2027	13	53	48	54

Overlapping constuction of activities Collinsvile Substation: abovegrade + 232 kV overhead:structure installation + Submarine cable + Norhtern		Overlap Period End Date	Work days	Project sound level (Leq dBA)		Combined project and existing ambient sound level (Leq dBA)
abovegrade + 232 kV overhead:structure installation + Submarine						
Transition Apporach + 500 kV interconnection:						
structure foundation installation + PG&E IT Work	7/1/2027	7/15/2027	12	56	48	57
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection: structure foundation installation + PG&E IT Work	7/15/2027	7/16/2027	1	56	48	56
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection: structure foundation installation + PG&E IT Work	7/16/2027	7/29/2027	11	59	48	59
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection: structure foundation installation + 501 kV interconnection: structure installation (without helicopter) +	7710/2027	772572027		39	40	39
PG&E IT Work Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection: structure foundation installation + 501 kV interconnection: structure installation (without helicopter) +	7/29/2027	8/15/2027	15	59	48	59
PG&EITWork Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 501 kV interconnection: structure installation (without helicopter) + PG&EITWork	8/15/2027 8/25/2027	8/25/2027 8/31/2027	8		48	57

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach Collinsvile Substation:						
abovegrade + Submarine cable + Norhtern Transition Apporach	9/1/2027	9/23/2027	20	66	48	66
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach	9/23/2027	9/24/2027	1	54	48	55
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection:conduc	372012021	SIZMIZUZI	_	34		33
tor installation (without helicopter)	9/24/2027	10/31/2027	32	55	48	56
Collinsvile Substation: abovegrade + Norhtern Transition Apporach + 500 kV interconnection:conduc tor installation (without helicopter)	10/31/2027	11/19/2027	16	50	48	52
Collinsvile Substation: abovegrade + Norhtern Transition Apporach	11/19/2027	11/30/2027	9	44		50
Collinsvile Substation: abovegrade	11/30/2027	2/1/2028	54	43		49
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration	2/1/2028	2/11/2028	9	52	48	53
Collinsville Substation: Site and ROW restoration	2/11/28	7/17/28	134	50.8	48	52.6
Min sound level	49					
Max sound level	66					
Project days	714					
Days above 55 dBA	152					
Percentage of days above DBA	21%					

						1
Alternative 4 Overlapping	Noise Levels at NR2 with N	MM NOI-1 and MM NOI-2				
					Existing daytime	Combined project and
Overlapping constuction activities	Date Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	(Leq dBA)	existing ambient sound level (Leq dBA)
Collinsville Substation:		O TOTAL PT OTTO LINE DUTO	Troncau, o	<i>u21.</i> ,	(204 abit)	18.101(19.41)
Site developent	5/1/2026	6/1/2026	26	45	48	50
12 kV distribution	6/1/2026	7/14/2026	37	62	48	62
Colinsville Substation: Below-grade + 12 kV						
distribution	7/14/2026	8/1/2026	16	62	48	62
Colinsville Substation:						
Below-grade	8/1/2026	12/31/2026	132	46	48	50
Colinsville Substation:						
Below-grade + PG&E IT Work	1/1/2027	1/2/2027	2	51	48	53
Colinsville Substation:	1/1/202/	17272027		01	40	
Below-grade +						
Collinsvile Substation:						
abovegrade + PG&E IT	1/0/0007	1/14/0007	10		40	5.4
Work Collinsvile Substation:	1/2/2027	1/14/2027	10	53	48	54
abovegrade + PG&E IT						
Work	1/14/2027	5/1/2027	92	51	48	53
Collinsvile Substation:						
abovegrade + 230 kV						
overhead: access road + PG&E IT Work	5/1/2027	5/17/2027	13	52	48	54
Collinsvile Substation:	0, 1, 202,	0,1,,202,	10			<u> </u>
abovegrade + 230 kV						
overhead: access road +						
500 kV interconnection: structure foundation						
installation + PG&E IT						
Work	5/17/2027	5/19/2027	2	55	48	56
Collinsvile Substation:						
abovegrade + 500 kV						
interconnection: structure foundation						
installation + PG&E IT						
Work	5/19/2027	5/20/2027	1	54	48	55
Collinsvile Substation:						
abovegrade + 230 kV overhead:structure						
foundation installation +						
500 kV interconnection +						
PG&E IT Work: structure	F (00 (0007	0/45/0007	20		40	50
foundation installation	5/20/2027	6/15/2027	22	55	48	56
Collinsvile Substation: abovegrade + Norhtern						
Transition Apporach +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT Work	6/15/2027	6/16/2027	1	54	48	55
Collinsvile Substation:	2: 22: 2 02 /		-	<u> </u>		33
abovegrade + 232 kV						
overhead:structure						
installation + Norhtern						
Transition Apporach + 500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	6/16/2027	7/1/2027	13	55	48	56

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 232 kV overhead:structure installation + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection: structure foundation						
installation + PG&E IT Work	7/1/2027	7/15/2027	12	56	48	57
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection: structure foundation installation + PG&E IT Work	7/15/2027	7/16/2027	1	56	48	56
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection: structure foundation installation + PG&E IT Work	7/16/2027	7/29/2027	11		48	
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection: structure foundation installation + 501 kV interconnection: structure installation (without helicopter) + PG&E IT Work	7/29/2027	8/15/2027	15		48	
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection: structure foundation installation + 501 kV interconnection: structure installation (without helicopter) + PG&E IT Work	8/15/2027	8/25/2027	8			
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 501 kV interconnection: structure installation (without helicopter) + PG&E IT Work	8/25/2027	8/31/2027	25	55	48	55

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach	9/1/2027	9/23/2027	20	66	48	66
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach	9/23/2027	9/24/2027	1	52	48	53
Collinsvile Substation: abovegrade + Submarine cable + Norhtern Transition Apporach + 500 kV interconnection:conduc tor installation (without helicopter)	9/24/2027	10/31/2027	32	53	48	54
Collinsvile Substation: abovegrade + Norhtern Transition Apporach + 500 kV interconnection:conduc tor installation (without						
helicopter) Collinsvile Substation: abovegrade + Norhtern Transition Apporach	10/31/2027 11/19/2027	11/19/2027	16	50	48	52
Collinsvile Substation:	11/30/2027	2/1/2028	54	46	48	50
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration	2/1/2028	2/11/2028	9	52	48	53
Collinsville Substation: Site and ROW restoration	2/11/28	7/17/28	134	50	48	52
Min sound level Max sound level Project days	50 66 714					
Days above 55 dBA Percentage of days above 55 DBA	157 22%					

						1	1	1
Alternative 6a Activities s	ound Levels at NR1							
Component and activity			Distance to Component (feet)	Project sound (Leg dBA)		Project sound after insertion loss (Leq dBA)	Existing ambient daytime sound levels (NM2) (Leq dBA)	Combined project activity and existing ambient sound levels (Leq dBA)
Collinsville Substation:	Start date	Liid date	(1661)	Project Sound (LequbA)	ilisertion toss (uDA)	insertion toss (LequbA)	(NHZ) (LequbA)	(Leduby)
Site developent	5/1/26	8/1/26	3545	55		55	48	56
Colinsville Substation:								
Below-grade	7/14/26	1/14/27	3545	57		57	48	57
Collinsvile Substation:								
abovegrade	1/2/27	2/11/28	3545	53		53	48	54
230 kV submarine cable								
installation	7/1/27	10/31/27	2750	63	10	53	48	54
Collinsville Substation:								
Site and ROW	0/4/00	7/47/00	05.45				40	50
restoration	2/1/28	7/17/28	3545	51		51	48	53
230 kV underground north	6/1/27	8/23/27	3460	57	10	47	48	51
Northern Transition	0/1/2/	0/23/2/	3400	37	10	47	40	- 51
Approach	6/15/27	11/30/27	3820	48	10	38	48	48
500 kV interconnection:	0/10/2/	11/00/2/	0020		10		40	40
structure foundation								
installation	6/1/27	7/28/27	3460	51		51	48	53
500 kV interconnection:								
structure installation								
(with helicopter)	7/29/27	9/23/27	4025	66		66	48	66
500 kV interconnection:								
structure installation (without helicopter)	9/24/27	11/19/27	4025	46		46	48	50
500 kV	3/24/2/	11/13/2/	4023	40		40	40	30
interconnection:conduc								
tor installation (with								
helicopter)	7/29/27	9/23/27	4025	60		60	48	60
500 kV								
interconnection:conduc								
tor installation (without								
helicopter)	9/24/27	9/24/27	4025	48		48		
12 kV distribution	6/1/26	8/1/26	2351	57		57	48	57
PG&E IT Work at								
Collinsville Substation	1/1/27	8/31/27	3545	40		40	48	49

	I	T				T	1	1
Alternative 6a Activities s	ound Levels at NR1 with M	M NOL-2						
Component and activity			Distance to Component (feet)	Project sound (Leq dBA)	Insertion loss (dBA)	Project sound after insertion loss (Leq dBA)	Existing ambient daytime sound levels (NM2) (Leq dBA)	Combined project activity and existing ambient sound levels (Leq dBA)
Collinsville Substation:								
Site developent	5/1/26	8/1/26	3545	55	10	45	48	50
Colinsville Substation:								
Below-grade	7/14/26	1/14/27	3545	57	10	47	48	50
Collinsvile Substation:								
abovegrade	1/2/27	2/11/28	3545	53	10	43	48	49
230 kV submarine cable								
installation	7/1/27	10/31/27	2750	63	10	53	48	54
Collinsville Substation:								
Site and ROW								
restoration	2/1/28	7/17/28	3545	51		51	48	53
230 kV underground	0/4/07	0,00,07	0.400		40	47	40	
north	6/1/27	8/23/27	3460	57	10	47	48	51
Northern Transition	6/15/27	11/30/27	3820	48	10	38	48	40
Approach 500 kV interconnection:	6/15/2/	11/30/2/	3820	48	10	38	48	48
structure foundation								
installation	6/1/27	7/28/27	3460	51		51	48	53
500 kV interconnection:	0/1/2/	7720727	0400				40	55
structure installation								
(with helicopter)	7/29/27	9/23/27	4025	66		66	48	66
500 kV interconnection:								
structure installation								
(without helicopter)	9/24/27	11/19/27	4025	46		46	48	50
500 kV								
interconnection:conduc								
tor installation (with								
helicopter)	7/29/27	9/23/27	4025	60		60	48	60
500 kV								
interconnection:conduc								
tor installation (without							1	
helicopter)	9/24/27	9/24/27	4025	48		48		
12 kV distribution	6/1/26	8/1/26	2351	57		57	48	57
PG&E IT Work at		0.00.00						
Collinsville Substation	1/1/27	8/31/27	3545	40	10	30	48	48

	1	1	1	1		1	ı	1
Alternative 6a Activities s	ound Levels at NR2							
Component and activity		End date	Distance to Component (feet)	Project sound (Leq dBA)	Insertion loss (dBA)	Project sound after insertion loss (Leq dBA)	Existing ambient daytime sound levels	Combined project activity and existing ambient sound levels (Leq dBA)
Collinsville Substation: Site developent	5/1/26	8/1/26	3787	55		55	48	56
Colinsville Substation: Below-grade	7/14/26	1/14/27	3787	56		56	48	57
Collinsvile Substation: abovegrade	1/2/27	2/11/28	3787	53		53	48	54
230 kV submarine cable installation	7/1/27	10/31/27	4107	60	10	50	48	
Collinsville Substation: Site and ROW restoration	2/1/28	7/17/28	3787	50		50	48	52
230 kV underground north	6/1/27	8/23/27	4010	56		56	48	56
Northern Transition Approach	6/15/27	11/30/27	4650	46	10	36	48	48
500 kV interconnection: structure foundation installation	6/1/27	7/28/27	4070	51		51	48	53
500 kV interconnection: structure installation (with helicopter)	7/29/27	9/23/27	4070	66		66	48	66
500 kV interconnection: structure installation (without helicopter)	9/24/27	11/19/27	4070	46		46	48	50
500 kV interconnection:conduc tor installation (with helicopter)	7/29/27	9/23/27	4070	60		60	48	60
500 kV interconnection:conduc tor installation (without								
helicopter)	9/24/27	9/24/27	4070	48		48		
12 kV distribution	6/1/26	8/1/26	1331	62		62	48	62
PG&E IT Work at Collinsville Substation	1/1/27	8/31/27	3787	50		43	48	49

	T	T				T	1	1
Alternative 6a Activities s	ound Levels at NR2 with M	M NOL-2						
Component and activity			Distance to Component (feet)	Project sound (Leq dBA)		Project sound after insertion loss (Leq dBA)	Existing ambient daytime sound levels (NM2) (Leq dBA)	Combined project activity and existing ambient sound levels (Leq dBA)
Collinsville Substation:								
Site developent	5/1/26	8/1/26	3545	55	10	45	48	50
Colinsville Substation:								
Below-grade	7/14/26	1/14/27	3545	57	10	46	48	50
Collinsvile Substation:								
abovegrade	1/2/27	2/11/28	3545	53	10	43	48	49
230 kV submarine cable								
installation	7/1/27	10/31/27	2750	63	10	50	48	
Collinsville Substation:								
Site and ROW								
restoration	2/1/28	7/17/28	3545	51		50	48	52
230 kV underground	0/4/07	0,00,07	0.400		10	40	40	50
north	6/1/27	8/23/27	3460	57	10	46	48	50
Northern Transition	6/15/27	11/30/27	3820	48	10	36	48	40
Approach 500 kV interconnection:	6/15/2/	11/30/2/	3820	48	10	36	48	48
structure foundation								
installation	6/1/27	7/28/27	3460	51		51	48	53
500 kV interconnection:	3,1,2,	7720727	0400				40	55
structure installation								
(with helicopter)	7/29/27	9/23/27	4025	66		66	48	66
500 kV interconnection:								
structure installation								
(without helicopter)	9/24/27	11/19/27	4025	46		46	48	50
500 kV								
interconnection:conduc								
tor installation (with								
helicopter)	7/29/27	9/23/27	4025	60		60	48	60
500 kV								
interconnection:conduc								
tor installation (without	0/04/07	0/04/07	4005	40		40	40	54
helicopter)	9/24/27	9/24/27	4025	48 57		48		
12 kV distribution	6/1/26	8/1/26	2351	57		62	48	62
PG&E IT Work at	4/4/07	0/04/07	05.45		44	40	40	40
Collinsville Substation	1/1/27	8/31/27	3545	40	10	43	48	49

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Alternative 6a Overlappin	g Noise Levels at NR1					
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site developent	5/1/2026	5/31/2026	26	55	48	56
Collinsville Substation: Site developent + 12 kV						
distribution	6/1/2026	7/13/2026	37	59	48	59
Collinsville Substation:						
Site developent + Colinsville Substation: Below-grade + 12 kV distribution	7/14/2026	7/31/2026	16	61	48	61
Colinsville Substation: Below-grade	8/1/2026	12/31/2026	131	57	48	57
Colinsville Substation:	0/1/2020	12/01/2020	101	57	40	5/
Below-grade + PG&E IT Work	1/1/2027	1/1/2027	1	57	48	57
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT						
Work	1/2/2027	1/13/2027	10	58	48	59
Collinsvile Substation: abovegrade + PG&E IT Work	1/14/2027	4/30/2027	92	54	48	55
Collinsvile Substation: abovegrade, 230 kV underground north, 500 kV interconnection: structure foundation installation + PG&E IT Work	6/1/2027	6/14/2027	12	56	48	57
Collinsvile Substation: abovegrade, 230 kV underground north, Northern Transition Approach, 500 kV interconnection: structure foundation installation + PG&EIT						
Work Collinsvile Substation: abovegrade, Submarine cable, 230 kV underground north, Northern Transition Approach, 500 kV interconnection: structure foundation installation + PG&E IT	6/15/2027	6/30/2027	14	56	48	57
Work	7/1/2027	7/27/2027	23	58	48	58
Collinsvile Substation: abovegrade, Submarine cable, 230 kV underground north, Northern Transition Approach + PG&E IT Work	7/28/2027	7/28/2027	1	57	48	57
Collinsvile Substation: abovegrade, Submarine cable, 230 kV underground north, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter) + PG&EIT Work	7/29/2027	8/22/2027	21	67	48	67

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter) + PG&EIT						
Work	8/23/2027	8/31/2027	8	67	48	67
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter)	9/1/2027	9/22/2027	19	67	48	67
Collinsvile Substation: abovegrade, 230 kV submarine cable installation, Northern						
Transition Approach	9/23/2027	10/30/2027	33	56	48	57
Collinsvile Substation: abovegrade, Northern Transition Approach	10/31/2027	11/29/2027	25	53	48	55
Collinsvile Substation: abovegrade	11/30/2027	1/31/2028	54	53	48	54
Collinsvile Substation: abovegrade, Collinsville Substation: Site and ROW restoration Collinsville Substation:	2/1/2028	2/10/2028	9		48	56
Site and ROW restoration	2/11/2028	7/16/2028	134	51	48	53
	2.11.2020	7,10,2020	104	01		00
Minimum noise level Maximum noise level			53 67			
Project days Days above 55 dBA			666 361			
Percentage of days above 55 dBA			54%			

				1	· 	
Alternative 6a Overlappin	g Noise Levels at NR2					
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site developent	5/1/2026	5/31/2026	26	55	48	56
Collinsville Substation: Site developent + 12 kV						
distribution	6/1/2026	7/13/2026	37	63	48	63
Collinsville Substation:						
Site developent + Colinsville Substation: Below-grade + 12 kV distribution	7/14/2026	7/31/2026	16	63	48	64
Colinsville Substation:						
Below-grade Colinsville Substation:	8/1/2026	12/31/2026	131	56	48	57
Below-grade + PG&E IT Work	1/1/2027	1/1/2027	1	56	48	57
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT	1/1/2027	1/1/2027	1	30	40	37
Work	1/2/2027	1/13/2027	10	58	48	58
Collinsvile Substation: abovegrade + PG&E IT Work	1/14/2027	4/30/2027	92	53	48	54
Collinsvile Substation: abovegrade, 230 kV underground north, 500 kV interconnection: structure foundation installation + PG&E IT Work	6/1/2027	6/14/2027	12		48	59
Collinsvile Substation: abovegrade, 230 kV underground north, Northern Transition Approach, 500 kV interconnection: structure foundation installation + PG&EIT						
Work Collinsvile Substation: abovegrade, Submarine cable, 230 kV underground north, Northern Transition Approach, 500 kV interconnection: structure foundation installation + PG&E IT	6/15/2027	6/30/2027	14	59	48	59
Work	7/1/2027	7/27/2027	23	59	48	59
Collinsvile Substation: abovegrade, Submarine cable, 230 kV underground north, Northern Transition Approach + PG&E IT Work	7/28/2027	7/28/2027	1	58	48	59
Collinsvile Substation: abovegrade, Submarine cable, 230 kV underground north, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter) + PG&EIT Work	7/29/2027	8/22/2027	21	67	48	67

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
				<i></i>	(204 a211)	to to (Log abri)
Collinsvile Substation: abovegrade, Submarine						
cable, Northern						
Transition Approach, 500						
kV interconnection:						
structure installation						
(with helicopter), 500 kV						
interconnection:conduc						
tor installation (with						
helicopter) + PG&E IT						
Work	8/23/2027	8/31/2027	8	67	48	67
Collinsvile Substation:						
abovegrade, Submarine						
cable, Northern						
Transition Approach, 500						
kV interconnection:						
structure installation						
(with helicopter), 500 kV						
interconnection:conduc						
tor installation (with						
helicopter)	9/1/2027	9/22/2027	19	67	48	67
Collinsvile Substation:						
abovegrade, 230 kV						
submarine cable						
installation, Northern						
Transition Approach	9/23/2027	10/30/2027	33	55	48	56
Collinsvile Substation:						
abovegrade, Northern						
Transition Approach	10/31/2027	11/29/2027	25	53	48	54
Collinsvile Substation:						
abovegrade	11/30/2027	1/31/2028	54	53	48	54
Collinsvile Substation:						
abovegrade, Collinsville						
Substation: Site and ROW restoration	2/1/2028	2/10/2028	9	55	48	56
Collinsville Substation:	2/1/2020	2/10/2028	9	55	40	36
Site and ROW						
restoration	2/11/2028	7/16/2028	134	50	48	52
Minimum noise level			52			
Maximum noise level			67			
Project days			666			
Days above 55 dBA			361			
Percentage of days						
above 55 dBA			54%			

Alternative 6a Overlappin	g Noise Levels at NR1 with	MM NOI-1				
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:	Date	Overtap i enou Enu Dute	Work days	abrij	(III IZ) (Zequbit)	tever (Eed abit)
Site developent	5/1/2026	5/31/2026	26	55	48	56
Collinsville Substation:						
Site developent + 12 kV distribution	6/1/2026	7/13/2026	37	59	48	59
	0/1/2020	7/13/2020	37	39	40	39
Collinsville Substation: Site developent + Colinsville Substation: Below-grade + 12 kV						
distribution	7/14/2026	7/31/2026	16	61	48	61
Colinsville Substation: Below-grade	8/1/2026	12/31/2026	131	56	48	57
Colinsville Substation: Below-grade + PG&E IT						
Work	1/1/2027	1/1/2027	1	56	48	57
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT						
Work	1/2/2027	1/13/2027	10	58	48	58
Collinsvile Substation: abovegrade + PG&E IT Work	1/14/2027	4/30/2027	92	53	48	54
Collinsvile Substation: abovegrade, 230 kV underground north, 500 kV interconnection: structure foundation installation + PG&EIT Work	6/1/2027	6/14/2027	12	55	48	56
Collinsvile Substation: abovegrade, 230 kV underground north, Northern Transition Approach, 500 kV interconnection: structure foundation installation + PG&E IT						
Work	6/15/2027	6/30/2027	14	55	48	56
Collinsvile Substation: abovegrade, Submarine cable, 230 kV underground north, Northern Transition Approach, 500 kV interconnection: structure foundation installation + PG&E IT Work	7/1/2027	7/27/2027	23	56	48	57
Collinsvile Substation:	// 1/202/	112112021	25	30	40	37
Counsyle Substation: abovegrade, Submarine cable, 230 kV underground north, Northern Transition Approach + PG&E IT Work	7/28/2027	7/28/2027	1	55	48	56
Collinsvile Substation: abovegrade, Submarine cable, 230 kV underground north, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter) + PG&EIT Work	7/29/2027	8/22/2027	21	56	48	57

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter) + PG&E IT Work	8/23/2027	8/31/2027	8	56	48	57
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter)	9/1/2027	9/22/2027	19	56	48	57
Collinsvile Substation: abovegrade, 230 kV submarine cable installation, Northern	3/1/2027	3/22/2027	19	30	40	37
Transition Approach	9/23/2027	10/30/2027	33	56	48	57
Collinsvile Substation: abovegrade, Northern Transition Approach	10/31/2027	11/29/2027	25	53	48	55
Collinsvile Substation: abovegrade	11/30/2027	1/31/2028	54	53	48	54
Collinsvile Substation: abovegrade, Collinsville Substation: Site and ROW restoration	2/1/2028	2/10/2028	9	55	48	56
Collinsville Substation: Site and ROW restoration	2/11/2028	7/16/2028	134	51	48	53
Minimum noise level Maximum noise level	53 61					
Project days	666					
Days above 55 dBA	361					
Percentage of days above 55 dBA	54%					

Alta um ativis Co. C.	which I amb at 120	MM NOL 4				
Alternative 6a Overlappin	g Noise Levels at NR2 with	MM NOI-1			Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation:	5 (4 (0000	F (04 (0000			40	50
Site developent Collinsville Substation:	5/1/2026	5/31/2026	26	55	48	56
Site developent + 12 kV						
distribution	6/1/2026	7/13/2026	37	63	48	63
Collinsville Substation:						
Site developent + Colinsville Substation:						
Below-grade + 12 kV						
distribution	7/14/2026	7/31/2026	16	63	48	64
Colinsville Substation: Below-grade	8/1/2026	12/31/2026	131	56	48	57
Colinsville Substation:	0,1,2020	12/01/2020	101	- 55		<u> </u>
Below-grade + PG&E IT						
Work	1/1/2027	1/1/2027	1	56	48	57
Colinsville Substation: Below-grade +						
Collinsvile Substation:						
abovegrade + PG&E IT						
Work	1/2/2027	1/13/2027	10	58	48	58
Collinsvile Substation: abovegrade + PG&E IT						
Work	1/14/2027	4/30/2027	92	53	48	54
Collinsvile Substation:						
abovegrade, 230 kV						
underground north, 500 kV interconnection:						
structure foundation						
installation + PG&EIT						
Work	6/1/2027	6/14/2027	12	55	48	56
Collinsvile Substation:						
abovegrade, 230 kV underground north,						
Northern Transition						
Approach, 500 kV						
interconnection: structure foundation						
installation + PG&EIT						
Work	6/15/2027	6/30/2027	14	55	48	56
Collinsvile Substation:						
abovegrade, Submarine						
cable, 230 kV underground north,						
Northern Transition						
Approach, 500 kV						
interconnection: structure foundation						
installation + PG&E IT						
Work	7/1/2027	7/27/2027	23	56	48	57
Collinsvile Substation:						
abovegrade, Submarine						
cable, 230 kV underground north,						
Northern Transition						
Approach + PG&E IT	7/00/0007	7/00/0007	٠			
Work	7/28/2027	7/28/2027	1	55	48	56
Collinsvile Substation:						
abovegrade, Submarine cable, 230 kV						
underground north,						
Northern Transition						
Approach, 500 kV interconnection:						
structure installation						
(with helicopter), 500 kV						
interconnection:conduc						
tor installation (with helicopter) + PG&EIT						
Work	7/29/2027	8/22/2027	21	56	48	57

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter) + PG&E IT						
Work	8/23/2027	8/31/2027	8	56	48	57
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter)	9/1/2027	9/22/2027	19	56	48	57
Collinsvile Substation: abovegrade, 230 kV submarine cable installation, Northern						
Transition Approach	9/23/2027	10/30/2027	33	55	48	56
Collinsvile Substation: abovegrade, Northern Transition Approach	10/31/2027	11/29/2027	25	53	48	54
Collinsvile Substation: abovegrade	11/30/2027	1/31/2028	54	53	48	54
Collinsvile Substation: abovegrade, Collinsville Substation: Site and ROW restoration Collinsville Substation:	2/1/2028	2/10/2028	9	55	48	56
Site and ROW restoration	2/11/2028	7/16/2028	134	50	48	52
Minimum naiss laval	52					
Minimum noise level Maximum noise level	64					
Project days	666					
Days above 55 dBA	361					
Percentage of days above 55 dBA	54%					

Alternative 6a Overlapping	Noise Levels at NR1 with	MM NOI-2				
Overlapping constuction (Quartan Bariad Start			Project sound level (Leq	Existing daytime	Combined project and existing ambient sound
	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsville Substation:						
Site developent	5/1/2026	5/31/2026	26	45	48	50
Collinsville Substation: Site developent + 12 kV						
distribution	6/1/2026	7/13/2026	37	57	48	58
Collinsville Substation:			-			
Site developent +						
Colinsville Substation:						
Below-grade + 12 kV distribution	7/14/2026	7/31/2026	16	58	48	EO
Colinsville Substation:	//14/2026	7/31/2020	10	50	40	58
Below-grade	8/1/2026	12/31/2026	131	47	48	50
Colinsville Substation:						
Below-grade + PG&E IT			_			
Work	1/1/2027	1/1/2027	1	47	48	51
Colinsville Substation: Below-grade +						
Collinsvile Substation:						
abovegrade + PG&E IT						
Work	1/2/2027	1/13/2027	10	48	48	51
Collinsvile Substation:						
abovegrade + PG&E IT Work	1/14/2027	4/30/2027	92	44	48	49
Collinsvile Substation:	1/ 14/202/	4/30/2027	92	44	40	49
abovegrade, 230 kV						
underground north, 500						
kV interconnection:						
structure foundation installation + PG&E IT						
Work	2027-06-01	2027-06-14	12	53	48	54
Collinsvile Substation:						
abovegrade, 230 kV						
underground north,						
Northern Transition						
Approach, 500 kV interconnection:						
structure foundation						
installation + PG&E IT						
Work	2027-06-15	2027-06-30	14	53	48	54
Collinsvile Substation:						
abovegrade, Submarine						
cable, 230 kV						
underground north, Northern Transition						
Approach, 500 kV						
interconnection:						
structure foundation						
installation + PG&E IT Work	2027-07-01	2027-07-27	23	56	48	57
Collinsvile Substation:	2027 07 01	2027 07 27	20	30	40	3,
abovegrade, Submarine						
cable, 230 kV						
underground north,						
Northern Transition Approach + PG&E IT						
Work	2027-07-28	2027-07-28	1	55	48	55
Collinsvile Substation: abovegrade, Submarine						
cable, 230 kV						
underground north,						
Northern Transition						
Approach, 500 kV						
interconnection: structure installation						
(with helicopter), 500 kV						
interconnection:conduc						
tor installation (with						
helicopter) + PG&E IT Work	2027-07-29	2027-08-22	21	67	48	67
	2021-01-23	2021-00-22	1 21	1 07	40	1 07

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conductor installation (with helicopter) + PG&E IT Work		8/31/2027	8	67	48	67
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conductor installation (with	2027-09-01	2027-09-22	19	67	48	67
helicopter) Collinsvile Substation: abovegrade, 230 kV submarie, 230 kV	2027-05-01	2027-03-22	19	07	40	07
installation, Northern Transition Approach Collinsvile Substation:	9/23/2027	10/30/2027	33	54	48	55
abovegrade, Northern Transition Approach	10/31/2027	11/29/2027	25	44	48	50
Collinsvile Substation: abovegrade	11/30/2027	1/31/2028	54	43	48	49
Collinsvile Substation: abovegrade, Collinsville Substation: Site and ROW restoration	2/1/2028	2/10/2028	9	52	48	53
Collinsville Substation: Site and ROW restoration	2/11/2028		134	51	48	53
Minimum noise level	49					
Maximum noise level	67					
Project days	666					
Days above 55 dBA	124					
Percentage of days above 55 dBA	19%					

Alta maraki C. G.	ablata la la companya	MMNOLC				
Alternative 6a Overlappin	g Noise Levels at NR2 with	MM NOI-2			Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation:	5 (4 (0000	F (04 (0000		45	40	50
Site developent Collinsville Substation:	5/1/2026	5/31/2026	26	45	48	50
Site developent + 12 kV						
distribution	6/1/2026	7/13/2026	37	62	48	62
Collinsville Substation:						
Site developent + Colinsville Substation:						
Below-grade + 12 kV						
distribution	7/14/2026	7/31/2026	16	62	48	62
Colinsville Substation: Below-grade	8/1/2026	12/31/2026	131	46	48	50
Colinsville Substation:	6/1/2020	12/31/2020	151	40	40	30
Below-grade + PG&E IT						
Work	1/1/2027	1/1/2027	1	48	48	51
Colinsville Substation:						
Below-grade + Collinsvile Substation:						
abovegrade + PG&E IT						
Work	1/2/2027	1/13/2027	10	49	48	52
Collinsvile Substation:						
abovegrade + PG&E IT Work	1/14/2027	4/30/2027	92	46	48	50
Collinsvile Substation:						
abovegrade, 230 kV						
underground north, 500						
kV interconnection: structure foundation						
installation + PG&EIT						
Work	6/1/2027	6/14/2027	12	53	48	54
Collinsvile Substation:						
abovegrade, 230 kV						
underground north, Northern Transition						
Approach, 500 kV						
interconnection:						
structure foundation						
installation + PG&EIT Work	6/15/2027	6/30/2027	14	53	48	54
Collinsvile Substation:						
abovegrade, Submarine						
cable, 230 kV						
underground north,						
Northern Transition Approach, 500 kV						
interconnection:						
structure foundation installation + PG&E IT						
Work	7/1/2027	7/27/2027	23	55	48	56
Collinsvile Substation:						
abovegrade, Submarine						
cable, 230 kV						
underground north, Northern Transition						
Approach + PG&E IT						
Work	7/28/2027	7/28/2027	1	53	48	54
Collinsvile Substation:						
abovegrade, Submarine						
cable, 230 kV underground north,						
Northern Transition						
Approach, 500 kV						
interconnection:						
structure installation (with helicopter), 500 kV						
interconnection:conduc						
tor installation (with						
helicopter) + PG&E IT	7/00/0007	0/00/0007	04	.77	40	^7
Work	7/29/2027	8/22/2027	21	67	48	67

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter) + PG&E IT Work	8/23/2027	8/31/2027	8	67	48	67
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with						
helicopter) Collinsvile Substation: abovegrade, 230 kV submarine cable	9/1/2027	9/22/2027	19	67	48	67
installation, Northern Transition Approach Collinsvile Substation:	9/23/2027	10/30/2027	33	51	48	53
abovegrade, Northern Transition Approach	10/31/2027	11/29/2027	25	44	48	49
Collinsvile Substation: abovegrade	11/30/2027	1/31/2028	54	43	48	49
Collinsvile Substation: abovegrade, Collinsville Substation: Site and ROW restoration	2/1/2028	2/10/2028	9	51	48	53
Collinsville Substation: Site and ROW restoration	2/11/2028	7/16/2028	134	50	48	52
Minimum noise level			49			
Maximum noise level			67			
Project days			666			
Days above 55 dBA			124			
Percentage of days						
above 55 dBA			19%			

Alternative 6a Overlappin	g Noise Levels at NR1 with	MM NOI-1 and MM NOI-2				
Overlapping constuction	Overlan Period Start			Project sound level (Leq	Existing daytime	Combined project and existing ambient sound
	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
Collinsville Substation:	F (4 (0000	F (04 (0000	00	45	40	
Site developent Collinsville Substation:	5/1/2026	5/31/2026	26	45	48	50
Site developent + 12 kV						
distribution	6/1/2026	7/13/2026	37	57	48	58
Collinsville Substation:						
Site developent + Colinsville Substation:						
Below-grade + 12 kV						
distribution	7/14/2026	7/31/2026	16	58	48	58
Colinsville Substation: Below-grade	8/1/2026	12/31/2026	131	46	48	50
Colinsville Substation:	0/1/2020	12/01/2020	101	40	40	
Below-grade + PG&E IT						
Work	1/1/2027	1/1/2027	1	48	48	51
Colinsville Substation: Below-grade +						
Collinsvile Substation:						
abovegrade + PG&E IT						
Work	1/2/2027	1/13/2027	10	49	48	52
Collinsvile Substation: abovegrade + PG&E IT						
Work	1/14/2027	4/30/2027	92	46	48	50
Collinsvile Substation:						
abovegrade, 230 kV						
underground north, 500 kV interconnection:						
structure foundation						
installation + PG&EIT						
Work	6/1/2027	6/14/2027	12	53	48	54
Collinsvile Substation:						
abovegrade, 230 kV underground north,						
Northern Transition						
Approach, 500 kV						
interconnection: structure foundation						
installation + PG&E IT						
Work	6/15/2027	6/30/2027	14	53	48	54
Collinsvile Substation:						
abovegrade, Submarine						
cable, 230 kV						
underground north, Northern Transition						
Approach, 500 kV						
interconnection:						
structure foundation installation + PG&E IT						
Work	7/1/2027	7/27/2027	23	55	48	56
Collinsvile Substation:						
abovegrade, Submarine						
cable, 230 kV underground north,						
Northern Transition						
Approach + PG&EIT						
Work	7/28/2027	7/28/2027	1	53	48	54
Collinsvile Substation:						
abovegrade, Submarine						
cable, 230 kV underground north,						
Northern Transition						
Approach, 500 kV						
interconnection:						
structure installation (with helicopter), 500 kV						
interconnection:conduc						
tor installation (with						
helicopter) + PG&E IT Work	7/29/2027	8/22/2027	21	55	48	55
VV OI N	//20/202/	0/22/202/] 55	40] 55

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter) + PG&E IT Work	8/23/2027	8/31/2027	8	54	48	55
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with			10			
helicopter) Collinsvile Substation: abovegrade, 230 kV submarine cable installation, Northern	9/1/2027	9/22/2027	19	54	48	55
Transition Approach Collinsvile Substation: abovegrade, Northern	9/23/2027	10/30/2027	33	54	48	55
Transition Approach	10/31/2027	11/29/2027	25	44	48	50
Collinsvile Substation: abovegrade	11/30/2027	1/31/2028	54	43	48	49
Collinsvile Substation: abovegrade, Collinsville Substation: Site and ROW restoration	2/1/2028	2/10/2028	9	52	48	53
Collinsville Substation: Site and ROW restoration	2/11/2028	7/16/2028	134	51	48	53
Minimum noise level	49					
Maximum noise level	58					
Project days	666					
Days above 55 dBA	76					
Percentage of days above 55 dBA	11%					

Alternative 6a Overlappin	g Noise Levels at NR1 with	MM NOI-1 and MM NOI-2				
Overlapping constuction activities	Overlap Period Start Date	Overlan Beried End Bete	Mark daya	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound
Collinsville Substation:	Date	Overlap Period End Date	work days	ubA)	(LequbA)	level (Leq dBA)
Site developent	5/31/2026	1/26/1900	26	45	48	50
Collinsville Substation:						
Site developent + 12 kV	7/40/0000	0/0/4000	07		40	00
distribution	7/13/2026	2/6/1900	37	62	48	62
Collinsville Substation: Site developent +						
Colinsville Substation: Below-grade + 12 kV distribution	7/31/2026	1/16/1900	16	62	48	62
Colinsville Substation: Below-grade	12/31/2026	5/10/1900	131	46	48	50
Colinsville Substation:						
Below-grade + PG&E IT Work	1/1/2027	1/1/1900	1	48	48	51
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT						
Work	1/13/2027	1/10/1900	10	49	48	52
Collinsvile Substation: abovegrade + PG&E IT						
Work	4/30/2027	4/1/1900	92	46	48	50
Collinsvile Substation: abovegrade, 230 kV underground north, 500 kV interconnection: structure foundation installation + PG&E IT Work	6/14/2027	1/12/1900	12	53	48	54
Collinsvile Substation: abovegrade, 230 kV underground north, Northern Transition Approach, 500 kV interconnection: structure foundation installation + PG&E IT						
Work	6/30/2027	1/14/1900	14	53	48	54
Collinsvile Substation: abovegrade, Submarine cable, 230 kV underground north, Northern Transition Approach, 500 kV interconnection: structure foundation installation + PG&E IT Work	7/27/2027	1/23/1900	23	55	48	56
Collinsvile Substation: abovegrade, Submarine cable, 230 kV underground north, Northern Transition Approach + PG&E IT Work	7/28/2027	1/1/1900	1	53	48	54
Collinsvile Substation: abovegrade, Submarine cable, 230 kV underground north, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter) + PG&EIT Work	8/22/2027	1/21/1900		55	48	55

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with helicopter) + PG&E IT Work	8/31/2027	1/8/1900	8	54	48	55
Collinsvile Substation: abovegrade, Submarine cable, Northern Transition Approach, 500 kV interconnection: structure installation (with helicopter), 500 kV interconnection:conduc tor installation (with	0/00/0007		10			
helicopter) Collinsvile Substation: abovegrade, 230 kV submarine cable installation, Northern	9/22/2027	1/19/1900	19	54	48	55
Transition Approach Collinsvile Substation: abovegrade, Northern	10/30/2027	2/2/1900	33	51	48	53
Transition Approach	11/29/2027	1/25/1900	25	44	48	49
Collinsvile Substation: abovegrade	1/31/2028	2/23/1900	54	43	48	49
Collinsvile Substation: abovegrade, Collinsville Substation: Site and ROW restoration	2/10/2028	1/9/1900	9	51	48	53
Collinsville Substation: Site and ROW restoration	7/16/2028	5/13/1900	134	50	48	52
Minimum noise level	49					
Maximum noise level	62					
Project days	666					
Days above 55 dBA	76					
Percentage of days above 55 dBA	11%					

	Combined project and existing ambient sound level (Leq dBA)
	existing ambient sound level (Leq dBA)
48	56
48	58
48	56
48	59
48	57
48	58
48	59
48	56
48	56
48	57
48	57
48	57
7.0	
48	60
	48 48 48 48

				.,	Eviating doubting	
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	6/15/2027	6/30/2027	14	60	48	60
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	7/1/2027	8/2/2027	28	60	48	61
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north + P&&E IT Work	8/3/2027	8/29/2027	66	60	48	
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	8/30/2027	8/31/2027	2	60		
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north	9/1/2027	10/18/2027	41	60		
Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	10/19/2027	10/19/2027	1	56	48	57
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/2027	10/30/2027	10		48	
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/27	11/29/27	25	61	48	61
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter)	11/30/27	12/5/27	5	61	48	61
Collinsvile Substation: abovegrade	12/6/27	1/17/28	37	53	48	54

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	1/18/28	1/31/28	12	60	48	61
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/1/28	2/14/28	12	61	48	61
Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/15/28	2/24/28	9	60	48	60
Collinsville Substation: Site and ROW restoration	2/25/28	7/17/28	123	51	48	53
Min noise level Max noise level Project days Days above 55 dBA Percentage of days above DBA	53 62 745 576					

Alternative 6b1 Overlappi	ng Noise Levels at NR2a1					
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Site developent	5/1/2026	5/31/2026	26	55	30	55
Collinsville Substation:	3/1/2020	3/31/2020	20	33		33
Site developent + 12 kV	0.14.10000	7/45/0000		50		50
distribution Collinsville Substation:	6/1/2026	7/15/2026	39	56	30	56
Site developent	7/16/2026	8/13/2026	25	55	30	55
Collinsville Substation: Site developent + Colinsville Substation:						
Below-grade	8/14/2026	8/28/2026	13	58	30	58
Colinsville Substation: Below-grade	8/29/2026	12/31/2026	107	56	30	56
Colinsville Substation:						
Below-grade + PG&E IT Work	1/1/2027	1/22/2027	19	57	30	57
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT Work	1/23/2027	2/5/2027	12	60		60
Collinsvile Substation:	172072027	2/0/2027		50	30	50
abovegrade + PG&E IT	2/2/2/2	4/00/0007	70			
Work Collinsvile Substation: abovegrade + 230 kV	2/6/2027	4/30/2027	72	57	30	57
overhead: access road +	F /4 /0007	F./4.C./0007	10	57	20	57
PG&E IT Work Collinsvile Substation:	5/1/2027	5/16/2027	13	57	30	57
abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/17/2027	5/19/2027	3	57	30	57
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/2027	5/21/2027	2	58	30	58
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/22/2027	5/31/2027	17	58	30	58
Collinsvile Substation:	SI LLI LULI	3,01,2027	17	30	30	30
Counsvies unstation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + 230 kV underground north + PG&E IT Work	6/1/2027	6/10/2027	9	58	30	58
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV underground						
north + PG&E IT Work	6/11/2027	6/14/2027	3	58	30	58

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	6/15/2027	6/30/2027	14	58	30	58
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	7/1/2027	8/2/2027	28	59	30	59
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	8/3/2027	8/29/2027	66	59		59
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	8/30/2027	8/31/2027	2	59		58
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north	9/1/2027	10/18/2027	41	58	30	59
Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	10/19/2027	10/19/2027	1	57		57
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/2027	10/30/2027	10		30	61
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/2027	11/29/2027	25	60		60
Collinsvile Substation: abovegrade + 230 kV Conductor installation						
(without helicopter) Collinsvile Substation: abovegrade	11/30/2027 12/6/2027	12/5/2027 1/17/2028	37	56		56

Overlapping constuction		Overden Berind Fred Base		Project sound level (Leq	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound
activities Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc	Date	Overlap Period End Date	work days	ОБА)	(Leg dbA)	level (Leq dBA)
tor installation (without helicopter)	1/18/2028	1/31/2028	12	60	30	60
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/1/2028	2/14/2028	12	61	30	61
Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/15/2028	2/24/2028	G	59	30	59
Collinsville Substation: Site and ROW	2/10/2020	2/2-1/2020	3		50	
restoration	2/25/2028	7/17/2028	123	50	30	50
Min noise level	50					
Max noise level	61					
Project days	745					
Days above 55 dBA Percentage of days above DBA	571 77%					

Alternative 6b1 Overlappin	g Noise Levels at NR1 wit	h MM NOI-1			Fortable and continue	O bissed a d d
Overlapping constuction C		Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site developent	5/1/2026	5/31/2026	26	55	48	56
Collinsville Substation: Site developent + 12 kV						
distribution	6/1/2026	7/15/2026	39	57	48	58
Collinsville Substation:						
Site developent	7/16/2026	8/13/2026	25	55	48	56
Collinsville Substation: Site developent +						
Colinsville Substation:						
Below-grade	8/14/2026	8/28/2026	13	59	48	59
Colinsville Substation:	0 / 0 0 / 0 0 0 0	40/04/0000				
Below-grade Colinsville Substation:	8/29/2026	12/31/2026	107	57	48	57
Below-grade + PG&E IT						
Work	1/1/2027	1/22/2027	19	58	48	58
Colinsville Substation:						
Below-grade +						
Collinsvile Substation: abovegrade + PG&E IT						
Work	1/23/2027	2/5/2027	12	59	48	59
Collinsvile Substation:						
abovegrade + PG&E IT	0/0/000	4/00/0007				
Work Collinsvile Substation:	2/6/2027	4/30/2027	72	55	48	56
abovegrade + 230 kV						
overhead: access road +						
PG&E IT Work	5/1/2027	5/16/2027	13	56	48	56
Collinsvile Substation:						
abovegrade + 230 kV overhead: access road +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT Work	5/17/2027	5/19/2027	3	56	48	57
	5/1//202/	5/19/2027	3	50	40	57
Collinsvile Substation: abovegrade + 230 kV						
overhead: access road +						
230kV						
overhead:structure foundation installation +						
500 kV interconnection:						
structure foundation						
installation + PG&E IT	F (00 (0007	F (04 (0007	0		40	
Work	5/20/2027	5/21/2027	2	57	48	57
Collinsvile Substation: abovegrade + 230kV						
overhead:structure						
foundation installation +						
500 kV interconnection: structure foundation						
installation + PG&E IT						
Work	5/22/2027	5/31/2027	17	56	48	57
Collinsvile Substation:						
abovegrade + 230kV						
overhead:structure foundation installation +						
500 kV interconnection:						
structure foundation						
installation + 230 kV underground north +						
PG&EITWork	6/1/2027	6/10/2027	9	57		
Collinsvile Substation:		-				
abovegrade + 230kV						
overhead:structure						
troundation installation						
foundation installation + 230 kV underground						

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	6/15/2027	6/30/2027	14	57	48	58
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground	0/13/2027	0/30/2027	14	37	40	36
north + PG&E IT Work Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	7/1/2027 8/3/2027	8/2/2027 8/29/2027	28			
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	8/30/2027	8/31/2027	2			
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north	9/1/2027	10/18/2027	41	64		
Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	10/19/2027	10/19/2027	1			
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/2027	10/30/2027	10		48	
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/2027	11/29/2027	25	57	48	57
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter)	11/30/2027	12/5/2027	5	57	48	57
Collinsvile Substation: abovegrade	12/6/2027	1/17/2028				

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without	1/18/2028	1/31/2028	12	54	48	
helicopter) Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/1/2028	2/14/2028	12	56		55
Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/15/2028	2/24/2028	9	52	48	53
Collinsville Substation: Site and ROW restoration	2/25/2028	7/17/2028	123	51	48	53
Min noise level Max noise level Project days Days above 55 dBA Percentage of days above DBA	53 64 745 554					

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Alternative 6b1 Overlappi	ng Noise Levels at NR2a1 v	with MM NOI-1				
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Site developent	5/1/2026	5/31/2026	26	55	30	55
Collinsville Substation: Site developent + 12 kV						
distribution Collinsville Substation:	6/1/2026	7/15/2026	39	56	30	56
Site developent Collinsville Substation:	7/16/2026	8/13/2026	25	55	30	55
Site developent + Colinsville Substation: Below-grade	8/14/2026	8/28/2026	13	58	30	58
Colinsville Substation: Below-grade	8/29/2026			56	30	56
Colinsville Substation: Below-grade + PG&E IT Work	1/1/2027	1/22/2027	197		30	57
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT	1.1.2027	2.22.2027		5.		
Work Collinsvile Substation:	1/23/2027	2/5/2027	12	60	30	60
abovegrade + PG&E IT Work	2/6/2027	4/30/2027	72	57	30	57
Collinsvile Substation: abovegrade + 230 kV overhead: access road +						
PG&E IT Work	5/1/2027	5/16/2027	13	57	30	57
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/17/2027	5/19/2027	3	57	30	57
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/2027	5/21/2027	2		30	58
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT	3/20/2027	SIZIZZZI		30	30	30
Work	5/22/2027	5/31/2027	17	58	30	58
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + 230 kV underground north + PG&E IT Work	6/1/2027	6/10/2027	9	58	30	58
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV underground north + PG&E ITWork	6/11/2027	6/14/2027	3		30	

Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	6/15/2027	6/30/2027	14	58	30	58
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	7/1/2027	8/2/2027	28	59	30	59
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north +						
PG&EITWork Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north +	8/3/2027	8/29/2027	66		30	
PG&E IT Work Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV	8/30/27	8/31/27	2	59		
underground north Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	9/1/27	10/18/27	41	58	30	
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/27	10/30/27	10	58	30	
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/27	11/29/27	25	58	30	58
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter)	11/30/27	12/5/27	5	58	30	58
Collinsvile Substation: abovegrade	12/6/27	1/17/28				

Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	1/18/28	1/31/28	12	56	30	56
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/1/28	2/14/28	12	57	30	57
Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without	2/15/28	2/24/28	9	51	30	51
helicopter) Collinsville Substation: Site and ROW restoration	2/25/28	7/17/28	123	50	30	50
Min noise level Max noise level	50					
Project days	745					
Days above 55 dBA	562					
Percentage of days above DBA	75%					

Alternative 6b1 Overlappi	ng Noise Levels at NR1 wit	h MM NOI-2				
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Colinsville Substation: Below-grade + PG&E IT Work	1/1/2027	1/22/2027	19	·	48	51
Colinsville Substation: Below-grade + Collinsvile Substation:	1/1/2027	1/22/2027	19	40	40	31
abovegrade + PG&E IT Work Collinsvile Substation:	1/23/2027	2/5/2027	12	49	48	52
abovegrade + PG&E IT Work	2/6/2027	4/30/2027	72	45	48	50
Collinsvile Substation: abovegrade + 230 kV overhead: access road + PG&E IT Work	5/1/2027	5/16/2027	13	49	48	51
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/17/2027	5/19/2027	3	50	48	52
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT						
Work	5/20/2027	5/21/2027	2	52	48	54
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/22/2027	5/31/2027	17	51	48	53
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + 230 kV underground north +	2027 06 04	2027 06 10		50		
PG&EIT Work Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV underground	2027-06-01	2027-06-10				
north + PG&E IT Work Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + 230 kV underground north +	2027-06-11	2027-06-14	3	58	48	58
PG&E IT Work	2027-06-15	2027-06-30	14	58	48	58

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsvile Substation:						
abovegrade + 230kV						
overhead:structure						
foundation installation + 230 kV submarine						
segment + Norhtern						
Transition Apporach +						
230 kV underground						
north + PG&E IT Work	2027-07-01	2027-08-02	28	64	48	64
Collinsvile Substation:						
abovegrade + 230 kV						
overhead:structure installation + 230 kV						
submarine segment +						
Norhtern Transition						
Apporach + 230 kV						
underground north +						
PG&E IT Work	2027-08-03	2027-08-29	66	64	48	64
Collinsvile Substation:						
abovegrade + 230 kV overhead:structure						
installation + 230 kV						
submarine segment +						
Norhtern Transition						
Apporach + 230 kV						
underground north +	2027 00 20	0/04/0007	0			0.5
PG&E IT Work	2027-08-30	8/31/2027	2	64	55	65
Collinsvile Substation:						
abovegrade + 230 kV overhead:structure						
installation + 230 kV						
submarine segment +						
Norhtern Transition						
Apporach + 230 kV underground north	2027-09-01	2027-10-18	41	64	55	61
Collinsvile Substation:	2027-09-01	2027-10-10	41	04	- 55	01
abovegrade + 230 kV						
submarine segment +						
Norhtern Transition						
Apporach	10/19/2027	10/19/2027	1	63	48	63
Collinsvile Substation:						
abovegrade + 230 kV						
Conductor installation (without helicopter) +						
230 kV submarine						
segment + Norhtern						
Transition Apporach	10/20/2027	10/30/2027	10	65	48	65
Collinsvile Substation:						
abovegrade + 230 kV Conductor installation						
(without helicopter) +						
Norhtern Transition						
Apporach	10/31/2027	11/29/2027	25	60	48	60
Collinsvile Substation:						
abovegrade + 230 kV Conductor installation						
(without helicopter)	11/30/2027	12/5/2027	5	60	48	60
Collinsvile Substation:			,	- 50		- 50
abovegrade	12/6/27	1/17/28	37	43	48	49
Collinsvile Substation:						
abovegrade + 500 kV						
interconnection:						
structure installation						
(without helicopter) + 500 kV						
interconnection:conduc						
tor installation (without						
helicopter)	1/18/28	1/31/28	12	60	48	60

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without					
helicopter) Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without	2/1/28		60		
helicopter) Collinsville Substation: Site and ROW restoration	2/15/28 2/25/28		41	48	
Min noise level Max noise level Project days Days above 55 dBA	49 65 745 228				
Percentage of days above DBA	31%				

Alternative 6b1 Overlappi	ng Noise Levels at NR2a1 v	with MM NOI-2				
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Site developent	5/1/2026	5/31/2026	26	45	30	45
Collinsville Substation: Site developent + 12 kV						
distribution Collinsville Substation:	6/1/2026	7/15/2026	39	52	30	52
Site developent Collinsville Substation:	7/16/2026	8/13/2026	25	45	30	45
Site developent + Colinsville Substation: Below-grade	8/14/2026	8/28/2026	13	48	30	49
Colinsville Substation: Below-grade	8/29/2026		107	46	30	46
Colinsville Substation: Below-grade + PG&E IT Work	1/1/2027	1/22/2027	19		30	40
Colinsville Substation: Below-grade + Collinsvile Substation:	1/1/202/	1/22/2027	19	47	30	47
abovegrade + PG&E IT Work	1/23/2027	2/5/2027	12	50	30	50
Collinsvile Substation: abovegrade + PG&E IT Work	2/6/2027	4/30/2027	72	47	30	47
Collinsvile Substation: abovegrade + 230 kV overhead: access road +						
PG&E IT Work Collinsvile Substation:	5/1/2027	5/16/2027	13	49	30	49
abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/17/2027	5/19/2027	3	50	30	50
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/2027	5/21/2027	2		30	52
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT	3/20/2027	3/21/2027		Jz	30	Jz
Work	5/22/2027	5/31/2027	17	51	30	51
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + 230 kV underground north + PG&E ITWork	6/1/2027	6/10/2027	9	53	30	53
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV underground north + PG&E ITWork	6/11/2027	6/14/2027	3	53	30	53

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + 230 kV underground north +	045,000	7500,000				
PG&E IT Work Collinsvile Substation:	6/15/2027	6/30/2027	14	53	30	53
abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground		2000				
north + PG&E IT Work	7/1/2027	8/2/2027	28	61	30	61
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north +	0.0000	200,000				
PG&E IT Work Collinsvile Substation:	8/3/2027	8/29/2027	66	61	30	61
abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north + PG&E IT Work	8/30/2027	8/31/2027	2	61	30	61
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north	9/1/2027	10/18/2027	41	61	30	
Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition						
Apporach	10/19/2027	10/19/2027	1	60	30	60
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/27	10/30/27	10	62	30	62
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition Apporach	10/31/27	11/29/27	25	59	30	59
Collinsvile Substation:	10/31/2/	11/23/27	25	59	30	59
abovegrade + 230 kV Conductor installation (without helicopter)	11/30/27	12/5/27	5	59	30	59
Collinsvile Substation: abovegrade	12/6/27	1/17/28	37	46	30	46

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)		Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without						
helicopter)	1/18/28	1/31/28	1200%	59	30	59
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/1/2028	2/14/2028	12	59	30	59
Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without						
helicopter) Collinsville Substation:	2/15/28	2/24/28	9	58	30	58
Site and ROW restoration	2/25/28	7/17/28	123	40	30	41
Min noise level	41					
Max noise level	62					
Project days	745					
Days above 55 dBA	211					
Percentage of days above DBA	28%					

Alternative 6b1 Overlappi	ng Noise Levels at NR1 wit	h MM NOI-1 and MM NOI-2	2			
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Site developent	5/1/2026	5/31/2026	26	45	48	50
Collinsville Substation: Site developent + 12 kV						
distribution Collinsville Substation:	6/1/2026	7/15/2026	39	53	48	54
Site developent Collinsville Substation:	7/16/2026	8/13/2026	25	45	48	50
Site developent + Colinsville Substation: Below-grade	8/14/2026	8/28/2026	13	49	48	52
Colinsville Substation: Below-grade	8/29/2026	12/31/2026	107	47	48	50
Colinsville Substation: Below-grade + PG&E IT Work	1/1/2027	1/22/2027	197		48	51
Colinsville Substation: Below-grade + Collinsvile Substation: abovegrade + PG&E IT	1/1/2027	112212027	10	40	40	31
Work Collinsvile Substation:	1/23/2027	2/5/2027	12	49	48	52
abovegrade + PG&E IT Work	2/6/2027	4/30/2027	72	45	48	50
Collinsvile Substation: abovegrade + 230 kV overhead: access road +						
PG&E IT Work	5/1/2027	5/16/2027	13	49	48	51
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/17/2027	5/19/2027	3	50	48	52
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/2027	5/21/2027	2		48	54
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT	3/20/2027	VIENZOZI		J.		
Work	5/22/2027	5/31/2027	17	51	48	53
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + 230 kV underground north + PG&E IT Work	6/1/2027	6/10/2027	9	54		
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV underground north + PG&E IT Work	6/11/2027	6/14/2027	3	54	48	55

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + 230 kV underground north +	0/45/0007	5000000			40	
PG&EITWork Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground	6/15/2027	6/30/2027	14	54	48	55
north + PG&E IT Work	7/1/2027	8/2/2027	28	54	48	55
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north +	0/0/0007	8/29/2027			40	
PG&E IT Work Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV	8/3/2027	8/29/2027	66	53	48	54
underground north + PG&E IT Work	8/30/2027	8/31/2027	2	53	54	56
Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north	9/1/2027	10/18/2027	41	52	55	61
Collinsvile Substation: abovegrade + 230 kV submarine segment + Norhtern Transition Apporach	10/19/2027	10/19/2027	1	45	48	50
Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern	10/20/2027	10/30/2027	10			
Transition Apporach Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition						
Apporach Collinsvile Substation: abovegrade + 230 kV	10/31/2027	11/29/2027	25	54	48	55
Conductor installation (without helicopter)	11/30/2027	12/5/2027	5	54	48	55
Collinsvile Substation: abovegrade	12/6/2027	1/17/2028	37	43	48	49

Overlapping constuction				Project sound level (Leq		Combined project and existing ambient sound
activities Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without	Date	Overlap Period End Date	work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)
helicopter)	1/18/2028	1/31/2028	12	46	48	50
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/1/2028	2/14/2028	12	52	48	54
Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter)	2/15/28	2/24/28	G	52	48	53
Collinsville Substation:				-		
Site and ROW restoration	2/25/28	7/17/28	123	51	48	53
Min noise level	49					
Max noise level	61					
Project days	745					
Days above 55 dBA	43					
Percentage of days above DBA	6%					

Alternative 6b1 Overlappi	ng Noise Levels at NR2a1 v	vith MM NOI-1 and MM NC)I-2			
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Site developent	5/1/2026	5/31/2026	26	45	30	45
Collinsville Substation: Site developent + 12 kV						
distribution Collinsville Substation:	6/1/2026	7/15/2026	39	52	30	52
Site developent Collinsville Substation:	7/16/2026	8/13/2026	25	45	30	45
Site developent + Colinsville Substation: Below-grade	8/14/2026	8/28/2026	13	48	30	49
Colinsville Substation: Below-grade	8/29/26	12/31/26		46	30	46
Colinsville Substation: Below-grade + PG&E IT Work	1/1/27	1/22/27	19		30	47
Colinsville Substation: Below-grade + Collinsvile Substation:	11 1127	1122121	10	77	- 50	7/
abovegrade + PG&E IT Work	1/23/27	2/5/27	12	50	30	50
Collinsvile Substation: abovegrade + PG&E IT Work	2/6/27	4/30/27	72	47	30	47
Collinsvile Substation: abovegrade + 230 kV overhead: access road +						
PG&E IT Work Collinsvile Substation:	5/1/27	5/16/27	13	49	30	49
abovegrade + 230 kV overhead: access road + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/17/27	5/19/27	3	50	30	50
Collinsvile Substation: abovegrade + 230 kV overhead: access road + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/27	5/21/27	2		30	50
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + PG&E IT	3/20/27	SILILI		J.	30	J.
Work	5/22/27	5/31/27	17	51	30	51
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 500 kV interconnection: structure foundation installation + 230 kV underground north + PG&E IT Work	6/1/27	6/10/27	9	53	30	53
Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + 230 kV underground north + PG&E IT Work	6/11/27	6/14/27	3	53	30	53

Descripting context and Oest lay Period Start Oest lay Period fired bate Vork days (eq db.) (eq db						Existing daytime	Combined project and
through are 250 NV personal statistics with the statistics of the	Overlapping constuction activities		Overlap Period End Date	Work days		ambient sound level	existing ambient sound
Collinaries Substation	Collinsvile Substation: abovegrade + 230kV overhead:structure foundation installation + Norhtern Transition Apporach + 230 kV underground north +		202.07				
week head structure unusation installation = 300 W submarine aggment + Northern Transition Approach = 300 W submarine aggment + Northern Transition Approach = 300 W submarine aggment + Northern Transition Approach = 300 W submarine aggment + Northern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine aggment + Vorthern Transition Approach = 300 W submarine Appro	Collinsvile Substation:	6/15/27	6/30/27	14	53	30	53
Collinsvile Substation: Bright Br	abovegrade + 230kV overhead:structure foundation installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground						
Boxegrade - 230 kV	north + PG&E IT Work	7/1/27	8/2/27	28	61	30	61
Collinsvile Substation:	Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north +	8/3/27	8/29/27	66	61	30	61
Bowegrade + 230 kV		8/3/2/	8/29/2/	66	61	30	61
Subvegrade + 230 kV Submarine segment + Northern Transition Subvegrade + 230 kV Submarine segment + Northern Transition Submarine segment + Northern Submarine segment + Northern Submarine segment + Northern Submarine segment + Northern Submarine Subm	abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north + P&&E IT Work	8/30/27	8/31/27	2	61	30	61
Collinsvile Substation: abovegrade + 230 kV Submarine segment + Norhtern Transition Apporach 10/19/27 10/19/27 1 60 30 60 Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) + 230 kV submarine segment + Norhtern fransition Apporach 10/20/27 10/30/27 10 61 30 61 Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) + Norhtern Transition Apporach 10/31/27 11/29/27 25 53 30 53 Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) + Norhtern Transition Apporach 10/31/27 11/29/27 25 53 30 53 Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) 11/30/27 12/5/27 5 53 30 53	Collinsvile Substation: abovegrade + 230 kV overhead:structure installation + 230 kV submarine segment + Norhtern Transition Apporach + 230 kV underground north	9/1/27	10/18/27	41	61	30	61
Apporach 10/19/27 10/19/27 1 60 30 60 Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) + Norhtern Transition Apporach 10/20/27 10/30/27 10 61 30 61 Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) + Norhtern Transition Apporach 10/31/27 11/29/27 25 53 30 53 Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) 11/30/27 12/5/27 5 53 30 53 Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) 11/30/27 12/5/27 5 53 30 53 Collinsvile Substation:	Collinsvile Substation: abovegrade + 230 kV submarine segment +						
Abovegrade + 230 kV Conductor installation without helicopter) + 230 kV submarine segment + Norhtern fransition Apporach 10/20/27 10/30/27 10 61 30 61 Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) + Norhtern Transition Apporach 10/31/27 11/29/27 25 53 30 53 Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) + Norhtern Transition Apporach 10/31/27 11/29/27 25 53 30 53 Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) 11/30/27 12/5/27 5 5 53 30 53 Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) 11/30/27 12/5/27 5 5 53 30 53 Collinsvile Substation:	Apporach	10/19/27	10/19/27	1	60	30	60
Abovegrade + 230 kV Conductor installation without helicopter) + Norhtern Transition Apporach 10/31/27 11/29/27 25 53 30 53 Collinsvile Substation: without helicopter) 11/30/27 12/5/27 5 53 30 53 Collinsvile Substation:	Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + 230 kV submarine segment + Norhtern Transition Apporach	10/20/27	10/30/27	10	61	30	61
Collinsvile Substation: abovegrade + 230 kV Conductor installation without helicopter) 11/30/27 12/5/27 5 53 30 53 Collinsvile Substation:	Collinsvile Substation: abovegrade + 230 kV Conductor installation (without helicopter) + Norhtern Transition	10/21/07	11/20/27	0.5		20	
abovegrade + 230 kV Conductor installation without helicopter) 11/30/27 12/5/27 5 53 30 53 Collinsvile Substation:		10/31/27	11/29/27	25	53	30	53
	abovegrade + 230 kV Conductor installation (without helicopter)	11/30/27	12/5/27	5	53	30	53
ADDVARTAGE I 17/6/27/1 1/17/28/I 27/I AEI 20/I AE	Collinsvile Substation: abovegrade	12/6/27	1/17/28				

Overlapping constuction activities		Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsvile Substation: abovegrade + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc						
tor installation (without helicopter)	1/18/28	1/31/28	12	47	30	48
Collinsvile Substation: abovegrade + Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without helicopter) Collinsville Substation: Site and ROW restoration + 500 kV interconnection: structure installation (without helicopter) + 500 kV interconnection:conduc tor installation (without tor installation (without	2/1/28	2/14/28	12	48	30	48
helicopter)	2/15/28	2/24/28	9	44	30	44
Collinsville Substation: Site and ROW restoration	2/25/28	7/17/28	123	40	30	41
Min noise level	41					
Max noise level	61					
Project days	745					
Days above 55 dBA	148					
Percentage of days above DBA	20%					

Alternative 6b2 Overlappi	ng Noise Levels at NR1					
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Site development	5/1/2026			55	48	56
Collinsville Substation: Site development, 12 kV						
distribution Collinsville Substation:	6/1/2026	7/15/2026	39	55	48	56
Site development Collinsville Substation:	7/16/2026	8/31/2026	40	55	48	56
Site development, Collinsville Substation: Below-grade	9/1/2026	9/13/2026	11	59	48	59
Collinsville Substation: Below-grade	9/14/2026			57	48	57
Collinsville Substation: Below-grade + PG&E IT						
Work	1/11/2027	2/9/2027		58		
Collinsville Substation: Below-grade, Collinsville Substation: Above-grade						
+ PG&E IT Work Collinsville Substation: Above-grade + PG&E IT	2/10/2027	2/23/2027	12	59	48	59
Work Collinsville Substation:	2/24/2027	4/30/2027	57	55	48	56
Above-grade, 230 kV overhead: access road + PG&E IT Work	5/1/2027	5/16/2027	13	56	48	56
Collinsville Substation: Above-grade, 230 kV overhead: access road, 500 kV interconnection: structure foundation installation + PG&E IT	F/47/0007	F/40/2007			40	64
Work Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection:	5/17/2027	5/19/2027	3	64	48	64
structure foundation installation + PG&E IT Work	5/20/2027	5/31/2027	10	64	48	64
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 KV	VILVILVE	O GALLET				
underground north + PG&E IT Work	6/1/2027	6/7/2027	6	60	48	61

Existing daytime Combined project and						
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation installation + 230 kV underground north + PG&E IT Work	6/8/2027	6/10/2027	3	60	48	60
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/11/2027	6/14/2027	3	57	48	57
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/15/2027	6/30/2027	14		48	60
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work		7/27/2027	23		48	60
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + 230 kV underground north + PG&E IT Work	7/28/2027	8/23/2027	23		48	57
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/24/2027	8/29/2025			48	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach ++ PG&E IT Work	8/30/2027	8/31/2027	2	56	48	57

					-	Ves Noise impacts Modelin
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine						
segment, Northern Transition Approach	9/1/2027	9/28/2027	26	57	48	57
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/29/2027	10/19/2027	18	54	48	55
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/27	10/30/27	10	60	48	60
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), Northern Transition Approach	10/31/27	11/29/27	25		48	
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter)	11/30/27	1/7/28	42		48	
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)		1/21/28	4	72	48	72
Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)		1/31/28	800%	72	48	72

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(with helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 502 kV						
interconnection:						
structure installation						
(with helicopter), 503 kV						
interconnection:						
conductor installation						
(without helicopter), 500						
kV Transposition						
Structures: Structure						
and Conductor						
Installation (helo)	2/1/28	2/24/28	21	72	48	72
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(with helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 500 kV						
Transposition						
Structures: Structure						
and Conductor						
Installation (helo)	2/25/28	2/28/28	3	72	48	72
Min noise level	55					
Max noise level	72					
Project days	449					
Days above 55 dBA	431					
Percentage of days						
above DBA	96%					

Alternative 6b2 Overlappi	ng Noise Levels at NR6					
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Site development	5/1/2026	5/31/2026	26	55	30	55
Collinsville Substation: Site development, 12 kV						
distribution Collinsville Substation:	6/1/2026	7/15/2026	39	63	30	63
Site development Collinsville Substation:	7/16/2026	8/31/2026	40	55	30	55
Site development, Collinsville Substation: Below-grade	9/1/2026	9/13/2026	11	58	30	58
Collinsville Substation: Below-grade	9/14/2026				30	56
Collinsville Substation: Below-grade + PG&E IT						
Work	1/11/2027	2/9/2027	26	57	30	
Collinsville Substation: Below-grade, Collinsville Substation: Above-grade						
+ PG&E IT Work Collinsville Substation: Above-grade + PG&E IT	2/10/2027	2/23/2027	12	60	30	60
Work Collinsville Substation:	2/24/2027	4/30/2027	57	57	30	57
Above-grade, 230 kV overhead: access road + PG&E IT Work	5/1/2027	5/16/2027	13	57	30	57
Collinsville Substation: Above-grade, 230 kV overhead: access road, 500 kV interconnection: structure foundation installation + PG&E IT	F/47/2007	F/10/2007	3	58	30	50
Work Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation	5/17/2027	5/19/2027	3	58	30	58
installation + PG&E IT Work	5/20/2027	5/31/2027	10	58	30	58
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 KV	3/20/20/2/	373112027	10	36	30	36
underground north + PG&E IT Work	6/1/2027	6/7/2027	6	61	30	61

Existing daytime Combined project and						
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 KV underground north + PG&E IT Work	6/8/2027	6/10/2027	3	61	30	61
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/11/2027	6/14/2027	3	58	30	58
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/15/2027	6/30/2027	14		30	61
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV undergound north + PG&E IT Work		7/27/2027	23		30	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + 230 kV underground north + PG&E IT Work	7/28/2027	8/23/2027	23			
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/24/2027	8/31/2027	7			
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach ++ PG&E IT Work	8/30/2027	8/31/2027	2	58	30	58

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine						
segment, Northern Transition Approach	8/30/2027	9/28/2027	24	58	30	58
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV substantiation, 230 kV substantiation, 230 kV substantiation Northern Transition Approach	9/29/2027	10/19/2027	18	57	30	57
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 230 kV submarine segment, Northern Transition						
Approach Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), Northern Transition	10/20/2027	10/30/2027	10	61	30	61
Approach	10/31/2027	11/29/2027	25	61	30	61
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation						
(with helicopter)	11/30/2027	1/7/2028	42	60	30	60
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)	1/18/2028	1/21/2028	400%	73	30	73
Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)	1/22/2028	1/31/2028	8	73	30	73

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 502 kV interconnection: structure installation						
(with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)	2/1/2028	2/24/2028	21	73	30	73
Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 500 kV Transposition Structures: Structure and Conductor						
Installation (helo)	2/25/2028	2/28/2028	3	73	30	73
Min noise level Max noise level Project days Days above 55 dBA	55 73 567 475					
Percentage of days above DBA	84%					

Alternative 6b2 Overlapping Noise Overlapping construction Overlap activities Date Collinsville Substation: Site development Collinsville Substation: Site development, 12 kV distribution Collinsville Substation:	5/1/2026 6/1/2026	th MM NOI-1 Overlap Period End Date 5/31/2026	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Overlapping constuction Overlap activities Date Collinsville Substation: Site development Collinsville Substation: Site development, 12 kV distribution	5/1/2026 6/1/2026	Overlap Period End Date	-		ambient sound level	existing ambient sound
Collinsville Substation: Site development Collinsville Substation: Site development, 12 kV distribution	6/1/2026	•	-	uba)	(INPIZ) (LequbA)	
Collinsville Substation: Site development, 12 kV distribution	6/1/2026	5/31/2026	26	ĺ		
Site development, 12 kV distribution				41	48	49
distribution						
Callinguilla Cubatations	7/40/0000	7/15/2026	39	41	48	49
Site development	7/16/2026	8/31/2026	40	41	48	49
Collinsville Substation: Site developent + Colinsville Substation: Below-grade	9/1/2026	9/13/2026	11	44	48	50
Collinsville Substation: Below-grade	9/14/2026	12/31/2026	94	42	48	49
Collinsville Substation:	3/14/2020	12/01/2020	34	72	40	40
Below-grade + PG&E IT Work	1/11/2027	2/9/2027	26	43		
Collinsville Substation: Below-grade, Collinsville Substation: Above-grade						
+ PG&E IT Work Collinsville Substation:	2/10/2027	2/23/2027	12	44	48	50
Above-grade + PG&E IT Work	2/24/2027	4/30/2027	57	40	48	49
Collinsville Substation: Above-grade, 230 kV overhead: access road + PG&E IT Work	5/1/2027	5/16/2027	13	46	48	50
Collinsville Substation: Above-grade, 230 kV overhead: access road, 500 kV interconnection: structure foundation installation + PG&E IT	E.47/2027	E/40/2007		52	40	54
Work	5/17/2027	5/19/2027	3	53	48	54
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/2027	5/31/2027	10	54	48	55
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV						
underground north + PG&E IT Work	6/1/2027	6/7/2027	6	58	48	59

Existing daytime Combined project and						
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/8/2027	6/10/2027	3	58	48	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/11/2027	6/14/2027	3	52	48	53
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/15/2027	6/30/2027	14	58	48	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work		7/27/2027	23	58	48	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + 230 kV underground north + PG&E IT Work	7/28/2027	8/23/2027	23	51	48	53
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/24/2027	8/29/2027		49		
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/30/2027	8/31/2025	2	58	48	59

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine						
segment, Northern Transition Approach	9/1/2027	9/28/2027	24	58	48	59
Collinsvile Substation: abovegrade + 232 kV overhead:structure installation + Submarine cable + Norhtern Transition Apporach	9/29/2027	10/19/2027	18	56	48	57
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (withoutoutout helicopter), 230 kV submarine segment, Northern Transition	10/20/27	10/30/27	10	53	48	54
Approach Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (withoutout helicopter), Northern Transition	10/20/27	10/30/27	10	33	40	34
Approach Collinsville Substation:	10/31/27	11/29/27	25	54	48	55
Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation						
(withoutout helicopter)	11/30/27	1/17/28	42	53	48	54
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)		1/21/28	4	61	48	61
Collinsville Substation: Above-grade, 230 kV Conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)		1/31/28	800%	61	48	61

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(without helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 502 kV						
interconnection:						
structure installation						
(without helicopter), 503						
kV interconnection:						
conductor installation						
(withoutout helicopter),						
500 kV Transposition						
Structures: Structure						
and Conductor						
Installation (no helo)	2/1/28	2/24/28	21	62	48	62
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(withoutout helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 500 kV						
Transposition						
Structures: Structure						
and Conductor						
Installation (no no helo)	2/25/28	2/28/28	3	63	48	63
Min noise level	49					
Max noise level	63 560					
Project days						
Days above 55 dBA	126					
Percentage of days						
above DBA	23%					

Alternative 6b2 Overlappi	ng Noise Levels at NR6 wit	h MM NOI-1				
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Site development	5/1/2026	5/31/2026	26	,		55
Collinsville Substation:	3/1/2020	5/31/2020	20	33	30	33
Site development, 12 kV distribution	6/1/2026	7/15/2026	39	55	30	55
Collinsville Substation: Site development	7/16/2026	8/31/2026	40	55	30	55
Collinsville Substation: Site developent + Colinsville Substation:						
Below-grade Collinsville Substation:	9/1/2026	9/13/2026	11	58	30	58
Below-grade Collinsville Substation:	9/14/2026	12/31/2026	94	56	30	56
Below-grade + PG&E IT Work	1/11/2027	2/9/2027	26	57	30	
Collinsville Substation: Below-grade, Collinsville Substation: Above-grade	0/40/0007	0/00/0007				
+ PG&E IT Work Collinsville Substation: Above-grade + PG&E IT	2/10/2027	2/23/2027	12	60	30	60
Work Collinsville Substation: Above-grade, 230 kV	2/24/2027	4/30/2027	57	57	30	57
overhead: access road + PG&E IT Work	5/1/2027	5/16/2027	13	57	30	57
Collinsville Substation: Above-grade, 230 kV overhead: access road, 500 kV interconnection: structure foundation installation + PG&E IT						
Work Collinsville Substation:	5/17/2027	5/19/2027	3	60	30	60
Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection:						
structure foundation installation + PG&E IT Work	5/20/2027	5/31/2027	10	60	30	60
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV	5/20/2027	5/31/202/	10	60	30	60
underground north + PG&E IT Work	6/1/2027	6/7/2027	6	61	30	61

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Collinsville Substation:						
Above-grade, 230 kV						
overhead: structure						
foundation installation,						
500 kV interconnection:						
structure foundation						
installation, 500 kV						
Transposition						
Structures: Foundation						
Installation + 230 KV						
underground north +						
PG&E IT Work	6/8/2027	6/10/2027	3	61	30	61
Collinsville Substation:						
Above-grade, 230 kV						
overhead: structure						
foundation installation,						
500 kV Transposition						
Structures: Foundation						
Installation + 230 KV						
underground north +						
PG&E IT Work	6/11/2027	6/14/2027	3	58	30	58
Collingville Substation:						
Collinsville Substation: Above-grade, 230 kV						
overhead: structure						
foundation installation,						
Northern Transition						
Approach, 500 kV						
Transposition						
Structures: Foundation						
Installation + 230 KV						
underground north +						
PG&E IT Work	6/15/2027	6/30/2027	14	61	30	61
Collinsville Substation:						
Above-grade, 230 kV						
overhead: structure						
foundation installation, 230 kV submarine						
segment, Northern						
Transition Approach, 500						
kV Transposition						
Structures: Foundation						
Installation + 230 KV						
underground north +						
PG&E IT Work	7/1/2027	7/27/2027	23	61	30	61
Callinguilla Substation:						
Collinsville Substation:						
Above-grade, 230 kV overhead: structure						
foundation installation,						
230 kV submarine						
segment, Northern						
Transition Approach +						
230 KV underground						
north + PG&E IT Work	7/28/2027	8/23/2027	23	57	30	57
		=:				
Collinsville Substation:						
Above-grade, 230 kV overhead: structure						
foundation installation,						
230 kV submarine						
segment, Northern						
Transition Approach +						
PG&E IT Work	8/24/2027	8/29/2027	7	57	30	57
		-				
Collinsville Substation:						
Above-grade, 230 kV						
overhead: structure						
foundation installation,						
230 kV overhead: structure installation,						
230 kV submarine						
segment, Northern						
Transition Approach +						
PG&E IT Work	8/30/2027	8/31/2025	2	59	30	59
	-:	-:: -520				

Collinsville Substation: Above-grade, 230 kV overhead: structure						
foundation installation, 230 kV overhead:						
structure installation, 230 kV submarine segment, Northern						
Transition Approach	9/1/2027	9/28/2027	24	58	30	58
Collinsvile Substation: abovegrade + 232 kV overhead:structure						
installation + Submarine cable + Norhtern	9/29/2027	10/19/2027	10	50	20	50
Transition Apporach	9/29/202/	10/19/2027	18	56	30	56
Collinsville Substation: Above-grade, 230 kV overhead: structure						
installation, 230 kV Conductor installation (withoutoutout						
helicopter), 230 kV submarine segment, Northern Transition						
Approach	10/20/27	10/30/27	10	58	30	58
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (withoutout helicopter),						
Northern Transition						
Approach	10/31/27	11/29/27	25	58	30	58
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation						
(withoutout helicopter)	11/30/27	1/17/28	42	58	30	58
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)	1/18/28	1/21/28	4	63	30	63
Collinsville Substation: Above-grade, 230 kV Conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor	1/18/28	1/21/28	4	63	30	63
Installation (no helo)	1/22/28	1/31/28	8	63	30	63

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Collinsville Substation: Above-grade, 230 kV Conductor installation (without helicopter), Collinsville Substation: Site and ROW restoration, 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)	2/1/28	2/24/28	21	64	30	64
Collinsville Substation: Above-grade, 230 kV Conductor installation (withoutout helicopter), Collinsville Substation: Site and ROW restoration, 500 kV Transposition Structures: Structure and Conductor Installation (no no helo)	2/25/28	2/28/28	3	64	30	64
Min noise level Max noise level Project days Days above 55 dBA	55 64 567 436					
Percentage of days above DBA	77%					

Alternative 6b2 Overlappi	ng Noise Levels at NR1 wit	h MM NOI-2					
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)	
Collinsville Substation:							
Site development Collinsville Substation:	5/1/26	5/31/26	26	45	30	45	
Site development, 12 kV							
distribution	6/1/26	7/15/26	39	45	30	46	
Collinsville Substation:							
Site development	7/16/26	8/31/26	40	45	30	45	
Collinsville Substation: Site development,							
Collinsville Substation:							
Below-grade	9/1/26	9/13/26	11	49	30	49	
Collinsville Substation:							
Below-grade	9/14/26	12/31/26	94	47	30	47	
Collinsville Substation: Below-grade + PG&E IT							
Work	1/11/27	2/9/27	26	48	30	48	
Collinsville Substation:							
Below-grade, Collinsville							
Substation: Above-grade + PG&E IT Work	2/10/27	2/23/27	12	49	30	49	
Collinsville Substation:	2/10/2/	2123/21	12	49	30	49	
Above-grade + PG&E IT							
Work	2/24/27	4/30/27	57	45	30	45	
Collinsville Substation:							
Above-grade, 230 kV overhead: access road +							
PG&EITWork	5/1/27	5/16/27	13	48	30	48	
Collinsville Substation:							
Above-grade, 230 kV							
overhead: access road,							
500 kV interconnection: structure foundation							
installation + PG&E IT							
Work	5/17/27	5/19/27	3	63	30	63	
Collinsville Substation:							
Above-grade, 230 kV							
overhead: access road, 230 kV overhead:							
structure foundation							
installation, 500 kV							
interconnection: structure foundation							
installation + PG&E IT							
Work	5/20/27	5/31/27	10	63	30	63	
0.111							
Collinsville Substation: Above-grade, 230 kV							
overhead: access road,							
230 kV overhead:							
structure foundation							
installation, 500 kV interconnection:							
structure foundation							
installation, 500 kV							
Transposition Structures: Foundation							
Installation + 230 KV							
underground north +							
PG&E IT Work	6/1/27	6/7/27	6	59	30	59	
Collinsville Substation:							
Above-grade, 230 kV							
overhead: structure foundation installation,							
500 kV interconnection:							
structure foundation							
installation, 500 kV							
Transposition Structures: Foundation							
Installation + 230 KV							
underground north +							
PG&E IT Work	6/8/27	6/10/27	3	59	30	59	

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Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		Combined project and existing ambient sound level (Leq dBA)	
Collinsville Substation:				,			
Above-grade, 230 kV							
overhead: structure foundation installation,							
500 kV Transposition							
Structures: Foundation							
Installation + 230 KV underground north +							
PG&E IT Work	6/11/27	6/14/27	3	52	30	52	
Collinsville Substation:							
Above-grade, 230 kV							
overhead: structure foundation installation,							
Northern Transition							
Approach, 500 kV							
Transposition Structures: Foundation							
Installation + 230 KV							
underground north +							
PG&E IT Work	6/15/27	6/30/27	14	58	30	58	
Collinsville Substation:							
Above-grade, 230 kV overhead: structure							
foundation installation,							
230 kV submarine							
segment, Northern Transition Approach, 500							
kV Transposition							
Structures: Foundation							
Installation + 230 KV underground north +							
PG&E IT Work	7/1/27	7/27/27	23	58	30	58	
Collinsville Substation:							
Above-grade, 230 kV							
overhead: structure foundation installation,							
230 kV submarine							
segment, Northern							
Transition Approach + 230 KV underground							
north + PG&E IT Work	7/28/27	8/23/27	23	52	30	52	
Collinsville Substation:							
Above-grade, 230 kV overhead: structure							
foundation installation,							
230 kV submarine							
segment, Northern Transition Approach +							
PG&E IT Work	8/24/27	8/29/27	7	51	30	51	
Collinsville Substation:							
Above-grade, 230 kV overhead: structure							
foundation installation,							
230 kV overhead:							
structure installation, 230 kV submarine							
segment, Northern							
Transition Approach + PG&E IT Work	8/30/27	8/31/25	2	59	30	59	
Collinsville Substation:	0/30/2/	0/31/23	2	39	30	39	
Above-grade, 230 kV							
overhead: structure							
foundation installation, 230 kV overhead:							
structure installation,							
230 kV submarine							
segment, Northern Transition Approach	9/1/27	9/28/27	24	59	30	59	
Collinsville Substation:	5.1727	5. ESI E1					
Above-grade, 230 kV							
overhead: structure installation, 230 kV							
submarine segment,							
Northern Transition							
Approach	9/29/27	10/19/27	18	49	30	49	

	Proposed Project and Alternatives Noise impacts Mod								
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		Combined project and existing ambient sound level (Leq dBA)			
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/27	10/30/27	10	59	30	59			
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), Northern Transition	10/20/27	10/30/27	10	33	30				
Approach Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter)	10/31/27	11/29/27	25	59	30	59			
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)		1/21/28	4	72	30	72			
Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)		1/31/28	8	72		72			
Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)	2/1/28	2/24/28	21	72	30	72			
Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 500 kV Transposition Structures: Structure and Conductor	2/1/28	2124/28	21	72	30	/2			
Installation (helo)	2/25/28	2/28/28	3	72	30	72			

Overlapping constuction	Overlap Period Start			Project sound level (Leq	Existing daytime ambient sound level	Combined project and existing ambient sound	
activities	Date	Overlap Period End Date	Work days	dBA)	(NM2) (Leq dBA)	level (Leq dBA)	
Min noise level	45						
Max noise level	72						
Project days	567						
Days above 55 dBA	198						
Percentage of days above DBA	35%						

Noise Levels at NR6 wit	h MM NOI-2				
verlap Period Start		Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
	•	•	,	·	
5/1/2026	5/31/2026	26	45	30	45
6/1/2026	7/15/2026	39	62	30	62
7/10/0000	0/04/0000	40	45	20	45
//16/2020	6/31/2026	40	45	30	45
9/1/2026	9/13/2026	11	48	30	49
9/14/2026	12/31/2026	94	46	30	46
1/11/2027	2/9/2027	26	47	30	
2/10/2027	2/23/2027	12	50	30	50
2/24/2027	4/30/2027	57	47	30	47
E/1/2027	E/16/2027	12	40	20	49
5/1/202/	3/10/2027	13	49	30	49
5/17/2027	5/19/2027	3	53	30	53
0/1//202/	0/10/202/	-			00
5/20/2027	5/31/2027	10	54	30	54
5. 25. 2527	5, 51, 2027	10			04
	9/14/2026 9/14/2026 1/11/2027 2/10/2027	9/1/2026 5/31/2026 6/1/2026 7/15/2026 7/16/2026 8/31/2026 9/13/2026 9/13/2026 9/14/2026 12/31/2026 1/11/2027 2/9/2027 2/24/2027 4/30/2027 5/17/2027 5/16/2027	Overlap Period End Date Work days	Nerlap Period Start ate	Existing daytime amblent sound level (Leq dBA)

				1100	osed Project and Alternati	•
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/8/2027	6/10/2027	3	59	30	59
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/11/2027	6/14/2027	3	51	30	51
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/15/2027	6/30/2027	14	59	30	59
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work		7/27/2027	23	59	30	59
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + 230 KV underground north + PG&E IT Work	7/28/2027	8/23/2027			30	53
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/24/2027	8/29/2027	7		30	53
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&EITWork	8/30/2027	8/31/2025	2	59	30	59

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern						
Transition Approach	9/1/2027	9/28/2027	24	58.9	30	58.9
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach	9/29/27	10/19/27	18	52.2	30	52,2
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 230 kV submarine segment, Northern Transition	40,00,07	40/00/07	100		200	
Approach Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), Northern Transition	10/20/27	10/30/27	10	59	30	59
Approach	10/31/27	11/29/27	25	59.1	30	59.1
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation						
(with helicopter)	11/30/27	1/7/28	42	58.4	30	58.4
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)	1/18/28	1/21/28	400%	73	30	73
Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (helo)		1/31/28	8	73	30	73

Overlapping constuction				Project sound level (Leq		Combined project and existing ambient sound
activities	Date	Overlap Period End Date	Work days	dBA)	(Leq dBA)	level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 502 kV interconnection: structure installation (with helicopter), 503 kV interconnection: conductor installation (without helicopter), 500 kVTransposition		Octupy enoughin bate	Workdays	uoaj	(CCYUDA)	wee(ted abit)
Structures: Structure						
and Conductor						
Installation (helo)	2/1/28	2/24/28	21	73	30	73
Collinsville Substation: Above-grade, 230 kV Conductor installation (with helicopter), Collinsville Substation: Site and ROW restoration, 500 kV Transposition Structures: Structure						
and Conductor						
Installation (helo)	2/25/28	2/28/28	3	73	30	73
Min noise level	45					
Max noise level	73					
Project days	567					
Days above 55 dBA	224					
Percentage of days above DBA	40%					

				110	osed Project and Alternati	ves worse impacts modelin
Alternative 6b2 Overlappi	ing Noise Levels at NR1 wit	h MM NOI-1 and MM NOI-2			Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Site development	5/1/2026	5/31/2026	26	45	48	50
Collinsville Substation: Site development, 12 kV distribution	6/1/2026	7/15/2026	39	49	48	51
Collinsville Substation:	0/1/2020	77 107 2020		40	40	0.1
Site development	7/16/2026	8/31/2026	40	45	48	50
Collinsville Substation: Site developent + Colinsville Substation:						
Below-grade	9/1/2026	9/13/2026	11	49	48	52
Collinsville Substation: Below-grade	9/14/2026	12/31/2026	94	47	48	50
Collinsville Substation: Below-grade + PG&E IT Work	1/11/2027	2/9/2027	26	48		
Collinsville Substation: Below-grade, Collinsville Substation: Above-grade		0/00/0007	40		10	
+ PG&E IT Work Collinsville Substation: Above-grade + PG&E IT	2/10/2027	2/23/2027	12	49	48	52
Work	2/24/2027	4/30/2027	57	45	48	50
Collinsville Substation: Above-grade, 230 kV overhead: access road + PG&E IT Work	5/1/2027	5/16/2027	13	48	48	51
Collinsville Substation: Above-grade, 230 kV overhead: access road, 500 kV interconnection: structure foundation installation + PG&EIT Work	5/17/2027	5/19/2027	3	63	48	63
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/2027	5/31/2027	10	63	48	63
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&EIT Work	6/1/2027	6/7/2027	6	59		

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/8/2027	6/10/2027	3	59	48	59
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/11/2027	6/14/2027	3	52	48	54
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/15/2027	6/30/2027	14	58	48	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	7/1/2027	7/27/2027	23		48	59
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + 230 kV underground north + PG&E ITWork	7/28/2027	8/23/2027	23	58	48	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/24/2027	8/29/2027		51	48	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&EIT Work	8/30/27	8/31/25	2	59	48	59

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine						
segment, Northern Transition Approach	9/1/27	9/28/27	24	59	48	59
Collinsvile Substation: abovegrade + 232 kV overhead:structure installation + Submarine cable + Norhtern Transition Apporach	9/29/27	10/19/27	18	52	48	54
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (withoutoutout helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/27	10/30/27	10	54	48	55
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV conductor installation (withoutout helicopter), Northern Transition	10/20/27	10/30/27	10	34	40	35
Approach Collinsville Substation:	10/31/27	11/29/27	25	54	48	55
Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation						
(withoutout helicopter)	11/30/27	1/17/28	42	53	48	54
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)		1/21/28	4	61	48	62
Collinsville Substation: Above-grade, 230 kV Conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)		1/31/28	8	61	48	61

Overlapping constuction activities		Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (NM2) (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:		·		ŕ		, ,
Above-grade, 230 kV						
Conductor installation						
(without helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 502 kV						
interconnection:						
structure installation						
(without helicopter), 503						
kV interconnection:						
conductor installation						
(withoutout helicopter),						
500 kV Transposition						
Structures: Structure						
and Conductor						
Installation (no helo)	2/1/28	2/24/28	21	65	48	65
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(withoutout helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 500 kV						
Transposition						
Structures: Structure						
and Conductor						
Installation (no no helo)	2/25/28	2/28/28	3	66	48	66
Min noise level	50					
Max noise level	66					
Project days	560					
Days above 55 dBA	115					
Percentage of days						
above DBA	21%					

				<u> </u>	· 	I
Alternative 6b2 Overlappi	ng Noise Levels at NR6 wit	h MM NOI-1 and MM NOI-2	2			
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:	Batt	Overtap i criod Ena Date	Work days	ubA)	(EcqubA)	tever(EcqubA)
Site development	5/1/2026	5/31/2026	26	45	30	45
Collinsville Substation:						
Site development, 12 kV distribution	6/1/2026	7/15/2026	39	45	30	45
Collinsville Substation: Site development	7/16/2026	8/31/2026	40		30	
Collinsville Substation:	7/10/2020	6/31/2020	40	45	30	45
Site developent + Colinsville Substation: Below-grade	9/1/26	9/13/26	11	48	30	49
Collinsville Substation: Below-grade	9/14/26	12/31/26	94	46	30	46
Collinsville Substation:	9/14/20	12/31/26	94	40	30	40
Below-grade + PG&E IT						
Work	1/11/27	2/9/27	26	47	30	47
Collinsville Substation: Below-grade, Collinsville Substation: Above-grade						
+ PG&E IT Work	2/10/27	2/23/27	12	50	30	50
Collinsville Substation: Above-grade + PG&E IT						
Work	2/24/27	4/30/27	57	47	30	47
Collinsville Substation: Above-grade, 230 kV overhead: access road + PG&E IT Work	5/1/27	5/16/27	13	49	30	49
Collinsville Substation: Above-grade, 230 kV overhead: access road, 500 kV interconnection: structure foundation installation + PG&E IT Work	5/17/27	5/19/27	3	53	30	53
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/27	5/31/27	10			
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north +						
PG&E IT Work	6/1/27	6/7/27	6	59	30	59

Existing daytime Combined project						Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 KV underground north + PG&E IT Work	6/8/27	6/10/27	3	59	30	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/11/27	6/14/27	3	51	30	51
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/15/27	6/30/27	14			59
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work		7/27/27	23			
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + 230 kV underground north + P&& IT Work	7/28/27	8/23/27	23	53	30	53
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/24/27	8/29/27	7			
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/30/27	8/31/25	2	59	30	59

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine						
segment, Northern Transition Approach	9/1/27	9/28/27	24	59	30	59
Collinsvile Substation: abovegrade + 232 kV overhead:structure installation + Submarine cable + Norhtern Transition Apporach	9/29/27	10/19/27	18	52	30	52
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (withoutoutout helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/27	10/30/27	10	55	200	55
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (withoutout helicopter), Northern Transition	10/20/27	10/30/27	10	33	30	33
Approach Collinsville Substation:	10/31/27	11/29/27	25	55	30	55
Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation						
(withoutout helicopter)	11/30/27	1/17/28	42	53	30	53
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)		1/21/28	4	62	30	62
Collinsville Substation: Above-grade, 230 kV Conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)		1/31/28	8	62	30	62

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(without helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 502 kV						
interconnection:						
structure installation						
(without helicopter), 503						
kV interconnection:						
conductor installation						
(withoutout helicopter),						
500 kV Transposition						
Structures: Structure						
and Conductor						
Installation (no helo)	2/1/28	2/24/28	21	62	30	62
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(withoutout helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 500 kV						
Transposition						
Structures: Structure						
and Conductor						
Installation (no no helo)	2/25/28	2/28/28	3	63	30	63
motation (no no note)	2,20,20	2,20,20	,			
Min noise level	45					
Max noise level	63					
Project days	567					
Days above 55 dBA	108					
Percentage of days	100					
above DBA	19%					

Alternative 6b2 Overlapping Noise Levels at NR1 with MM NOI-1, MM NOI-2, and MM NOI-4							
Overlapping constuction activities		Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)	
Collinsville Substation:			Tronk days	<i></i>	(294 0271)	torot(zeq uzm)	
Site development	5/1/26	5/31/26	26	45	48	50	
Collinsville Substation:							
Site development, 12 kV	0.44.00	745400					
distribution	6/1/26	7/15/26	39	45	48	50	
Collinsville Substation: Site development	7/16/26	8/31/26	40	45	48	50	
Collinsville Substation:	7710720	0/01/20	40	45	40		
Site developent +							
Colinsville Substation:							
Below-grade	9/1/26	9/13/26	11	49	48	52	
Collinsville Substation:							
Below-grade	9/14/26	12/31/26	94	47	48	50	
Collinsville Substation: Below-grade + PG&E IT							
Work	1/11/27	2/9/27	26	48			
Collinsville Substation:							
Below-grade, Collinsville							
Substation: Above-grade							
+ PG&E IT Work	2/10/27	2/23/27	12	49	48	52	
Collinsville Substation: Above-grade + PG&E IT							
Work	2/24/27	4/30/27	57	45	48	50	
Collinsville Substation:			-				
Above-grade, 230 kV							
overhead: access road +							
PG&E IT Work	5/1/27	5/16/27	13	48	48	51	
Collinsville Substation:							
Above-grade, 230 kV							
overhead: access road, 500 kV interconnection:							
structure foundation							
installation + PG&EIT							
Work	5/17/27	5/19/27	3	54	48	55	
Collinsville Substation:							
Above-grade, 230 kV							
overhead: access road,							
230 kV overhead: structure foundation							
installation, 500 kV							
interconnection:							
structure foundation							
installation + PG&E IT	5 (0.0 (0.7)	5/04/07					
Work	5/20/27	5/31/27	10	55	48	56	
Collinsville Substation:							
Above-grade, 230 kV							
overhead: access road,							
230 kV overhead:							
structure foundation installation, 500 kV							
interconnection:							
structure foundation							
installation, 500 kV							
Transposition							
Structures: Foundation Installation + 230 KV							
underground north +							
PG&E IT Work	6/1/27	6/7/27	6	58	48	59	

Existing daytime Combined project a						Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation installation + 230 kV underground north + PG&E IT Work	6/8/27	6/10/27	3	58	48	58
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/11/27	6/14/27	3	51	48	53
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/15/27	6/30/27	14			
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work		7/27/27	23			
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + 230 kV underground north + PG&E IT Work	7/28/27	8/23/27	23	51	48	52
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/24/27	8/29/27	7	51	48	52
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/30/27	8/31/25	2	59	48	59

					Existing daytime	Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine						
segment, Northern Transition Approach	9/1/27	9/28/27	24	59	48	59
Collinsvile Substation: abovegrade + 232 kV overhead:structure installation + Submarine cable + Norhtern Transition Apporach	9/29/27	10/19/27	18	52	48	54
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (withoutoutout helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/27	10/30/27	10	54	48	55
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Coductor installation (withoutout helicopter), Northern Transition	10/20/27	10/30/27	10	34	40	33
Approach Collinsville Substation:	10/31/27	11/29/27	25	54	48	55
Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation						
(withoutout helicopter)	11/30/27	1/17/28	42	53	48	54
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)		1/21/28	4	61	48	62
Collinsville Substation: Above-grade, 230 kV Conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)		1/31/28	8	61	48	61

Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(without helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 502 kV						
interconnection:						
structure installation						
(without helicopter), 503						
kV interconnection:						
conductor installation						
(withoutout helicopter),						
500 kV Transposition						
Structures: Structure						
and Conductor	0/4/00	0/04/00				
Installation (no helo)	2/1/28	2/24/28	21	62	48	62
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(withoutout helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 500 kV						
Transposition						
Structures: Structure						
and Conductor						
Installation (no no helo)	2/25/28	2/28/28	3	63	48	63
(**************************************						
Min noise level	50					
Max noise level	63					
Project days	567					
Days above 55 dBA	118					
Percentage of days	110					
above DBA	21%					

Alternative 6b2 Overlappi	ng Noise Levels at NR6 wit	h MM NOI-1, MM NOI-2, ar	nd MM NOI-4			
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:	Date	Overtap Period End Date	work days	ubA)	(LequbA)	tevet (LequbA)
Site development	5/1/26	5/31/26	26	45	30	45
Collinsville Substation:						
Site development, 12 kV distribution	6/1/26	7/15/26	39	45	30	45
Collinsville Substation: Site development	7/16/26	8/31/26	40		30	
Collinsville Substation: Site developent +						
Colinsville Substation: Below-grade	9/1/26	9/13/26	11	48	30	49
Collinsville Substation: Below-grade	9/14/26	12/31/26	94	46	30	46
Collinsville Substation: Below-grade + PG&E IT						
Work	1/11/27	2/9/27	26	47	30	47
Collinsville Substation: Below-grade, Collinsville Substation: Above-grade						
+ PG&E IT Work	2/10/27	2/23/27	12	50	30	50
Collinsville Substation: Above-grade + PG&E IT	0/04/07	4/00/07	F-7	47	200	47
Work Collinsville Substation:	2/24/27	4/30/27	57	47	30	47
Above-grade, 230 kV overhead: access road + PG&E IT Work	5/1/27	5/16/27	13	49	30	49
Collinsville Substation: Above-grade, 230 kV overhead: access road, 500 kV interconnection: structure foundation installation + PG&E IT						
Work	5/17/27	5/19/27	3	53	30	53
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation + PG&E IT Work	5/20/27	5/31/27	10	54	30	54
Collinsville Substation: Above-grade, 230 kV overhead: access road, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/1/27	6/7/27	6	51	30	

Existing daytime Combined project						Combined project and
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date		Project sound level (Leq dBA)		existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV interconnection: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 KV underground north + PG&E IT Work	6/8/27	6/10/27	3	50	30	
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/11/27	6/14/27	3	51	30	51
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work	6/15/27	6/30/27	14			50
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach, 500 kV Transposition Structures: Foundation Installation + 230 kV underground north + PG&E IT Work		7/27/27	23			
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + 230 kV underground north + P&& IT Work	7/28/27	8/23/27	23	53	30	53
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/24/27	8/29/27	7			
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation, 230 kV submarine segment, Northern Transition Approach + PG&E IT Work	8/30/27	8/31/25	2	59	30	59

Frighting dusting dusting						-
Overlapping constuction activities	Overlap Period Start Date	Overlap Period End Date	Work days	Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation: Above-grade, 230 kV overhead: structure foundation installation, 230 kV overhead: structure installation,						
230 kV submarine segment, Northern Transition Approach	9/1/27	9/28/27	24	59	30	59
Collinsvile Substation: abovegrade + 232 kV overhead:structure installation + Submarine cable + Norhtern Transition Apporach	9/29/27	10/19/27	18	52	30	52
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (withoutoutout helicopter), 230 kV submarine segment, Northern Transition Approach	10/20/27	10/30/27	10	55	30	55
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (withoutout helicopter), Northern Transition Approach	10/31/27	11/29/27	25		30	
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (withoutout helicopter)	11/30/27	1/17/28	42		30	53
Collinsville Substation: Above-grade, 230 kV overhead: structure installation, 230 kV Conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)					30	
Collinsville Substation: Above-grade, 230 kV Conductor installation (without helicopter), 502 kV interconnection: structure installation (without helicopter), 503 kV interconnection: conductor installation (withoutout helicopter), 500 kV Transposition Structures: Structure and Conductor Installation (no helo)			8	53	30	53

Overlapping constuction activities		Overlap Period End Date		Project sound level (Leq dBA)	Existing daytime ambient sound level (Leq dBA)	Combined project and existing ambient sound level (Leq dBA)
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(without helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 502 kV						
interconnection:						
structure installation						
(without helicopter), 503						
kV interconnection:						
conductor installation						
(withoutout helicopter),						
500 kV Transposition						
Structures: Structure						
and Conductor						
Installation (no helo)	2/1/28	2/24/28	21	55	30	55
Collinsville Substation:						
Above-grade, 230 kV						
Conductor installation						
(withoutout helicopter),						
Collinsville Substation:						
Site and ROW						
restoration, 500 kV						
Transposition						
Structures: Structure						
and Conductor						
Installation (no no helo)	2/25/28	2/28/28	3	59	30	59
Min noise level	45					
Max noise level	59					
Project days	567					
Days above 55 dBA	29					
Percentage of days						
above DBA	5%					