

Decision 00-06-035 June 8, 2000

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

In the Matter of the Application of Williams Communications, Inc., dba Vyvx, Inc., a Delaware corporation, for a Certificate of Public Convenience and Necessity to Provide InterLATA and IntraLATA Telecommunications Services Within the State of California.

Application 98-12-037
(Filed December 31, 1998;
Petitions for Modification
filed December 13, 1999 and
December 17, 1999)

OPINION

I. Summary

By Decision (D.) 99-05-022, we granted facilities-based authority to Williams Communications, Inc. dba Vyvx, Inc. (applicant). By this decision, we approve applicant's proposed construction of fiber optic systems between Point Arena in Mendocino County and the community of Robbins in Sutter County, and between Point Arena and the City of Sacramento.

II. Background

By D.99-05-022 and D.99-10-062 we granted applicant a Certificate of Public Convenience and Necessity to operate as a resale and facilities-based provider of interexchange telecommunications service. Facilities-based authority was limited to specified construction projects.

III. Overview of the Application

Applicant filed petitions to modify D.99-10-062 on December 13 and 17, 1999. The petitions request authority to construct fiber optic facilities between Point Arena and Robbins, and between Point Arena and Sacramento,

respectively. The Point Arena to Sacramento project is a redesign of the original plan for that project which was approved in D.99-10-062.

IV. Comments on Draft Decision

This is an uncontested matter in which the decision grants the requested relief. Therefore, pursuant to Pub. Util. Code § 311(g)(2) the otherwise applicable 30-day period for public review and comment is being waived.

V. California Environmental Quality Act (CEQA)

CEQA requires the Commission, as the designated lead agency, to assess the potential environmental impact of a project in order that adverse effects are avoided, alternatives are investigated, and environmental quality is restored or enhanced to the fullest extent possible.

Applicant will be constructing fiber optic cable facilities which it will primarily install inside existing, disturbed road or railroad rights-of-way through the use of plowing or trenching techniques. In addition, optical amplification or regeneration stations will be installed at intervals to boost transmitted signals. The stations will be located on private land adjacent to the routes.

We have reviewed the projects proposed in the petitions for compliance with CEQA. Rule 17.1 of the Commission's Rules of Practice and Procedure requires the proponent of any project subject to Commission approval to submit with the application for approval of such project a Proponent's Environmental Assessment (PEA). The PEA is used by the Commission to focus on any impacts of the project which may be of concern, and prepare the Commission's Initial Study to determine whether the project needs a Negative Declaration or an Environmental Impact Report.

Based on its assessment of the application and PEA, the Commission staff prepared a Negative Declaration and Initial Study generally describing the

projects and the potential environmental effects. The Negative Declaration is considered a Mitigated Negative Declaration (MND). This means that, although the initial study identified potentially significant impacts, revisions which mitigate the impacts to a less than significant level have been agreed to by the Applicant. (Pub. Res. Code § 21080(c)(2).)

VI. Results of the Negative Declaration

The Negative Declaration and Initial Study were sent to various city and county planning agencies, as well as public libraries throughout the state for review and comment by March 1, 2000. The Commission staff prepared a public notice which announced the preparation of the draft negative declaration, the locations where it was available for review, and the deadline for written comments. The public notice was advertised in newspapers throughout the state. The draft Negative Declaration was also submitted to the Governor's Office of Planning and Research where it was circulated to affected state agencies for review and comment.

Public comments on the draft Negative Declaration were reviewed and answered, as necessary. The Commission staff then finalized the MND. The finalized MND includes a list of mitigation measures with which applicant must comply as a condition of its CPCN authority. The MND includes a Mitigation Monitoring Plan to ensure that the mitigation measures are followed and implemented as intended. A copy of the MND is attached to this decision as Attachment A. We hereby approve the MND as finalized by staff.

VII. Conclusion

We conclude that the proposed projects will not have potentially significant adverse environmental impacts. We will, therefore modify D.99-10-062 to allow their construction.

Findings of Fact

1. Notice of the petitions for modification of D.99-10-062 filed on December 13 and 17, 1999, appeared in the Daily Calendar on December 15 and 20, 1999, respectively.
2. No protests have been filed.
3. A hearing is not required.
4. In D.99-05-022 and D.99-10-062 we determined that applicant was qualified to provide resale and facilities-based interexchange telecommunications service.
5. The MND was prepared in compliance with and pursuant to CEQA.
6. The MND represents the Commission's independent judgement.

Conclusions of Law

1. Applicant must agree to, and is required to, carry out the mitigation measures adopted in the MND, included as Attachment A, in compliance with CEQA.
2. With the incorporation of the mitigation measures in the final MND, applicant's proposed projects will not have potentially significant adverse environmental impacts.
3. The MND should be adopted pursuant to CEQA.
4. Applicant's construction projects addressed in the MND should be approved.
5. Because of the public interest in interexchange services, the following order should be effective immediately.

O R D E R

IT IS ORDERED that:

1. Decision (D.) 99-10-062 is modified to allow Williams Communications, Inc., dba Vyvx, Inc. (applicant), to construct the facilities addressed in the Mitigated Negative Declaration (MND), included as Attachment A, subject to the terms and conditions set forth below, in D.99-05-022 and in D.99-10-062.

2. The MND is adopted pursuant to the California Environmental Quality Act.

3. Applicant shall fully implement the mitigation measures described in the MND.

4. Applicant shall enter into a cost reimbursement agreement with the Commission for expenses accrued from implementing the mitigation and monitoring plan as described in the MND. Compliance with this agreement will be a condition of approval of this decision.

5. The Energy Division shall supervise and oversee the construction of the projects insofar as it relates to monitoring and enforcement of the mitigation measures described in the MND. The Energy Division may designate outside staff to perform on-site monitoring tasks. The Commission project manager (Energy Division, Environmental Projects Unit) shall have the authority to issue a Stop Work Order on the entire project, or portions thereof, for the purpose of insuring compliance with the mitigation measures described in the MND. Construction may not resume without a Notice to Proceed issued by the Environmental Projects Unit of the Energy Division.

6. Applicant shall send a copy of this decision to concerned local permitting agencies not later than 30 days from the date of this order.

7. The application is granted, to the extent set forth above.
8. This proceeding is closed.

This order is effective today.

Dated June 8, 2000, at San Francisco, California.

LORETTA M. LYNCH
President
HENRY M. DUQUE
JOSIAH L. NEEPER
RICHARD A. BILAS
CARL W. WOOD
Commissioners

ATTACHMENT A

Note

The Final Mitigated Negative Declaration was mailed to all parties to the application as well as all commenters on the Initial Study/Draft Mitigated Negative Declaration. Due to its volume, only the Executive Summary is included herein.

The Final Mitigated Negative Declaration will be posted on the Commission's web site at www.cpuc.ca.gov. Click on "CPUC Environmental Materials," then "Current Projects," and then in "Williams Communications, Inc."

If you are unable to access this document electronically, please call KEA Environmental at (916) 563-7800.

ATTACHMENT A

Final Subsequent Initial Study/Mitigated Negative Declaration

**Williams Communications, Inc.
Fiber Optic Cable System Installation Project**

**Point Arena to Robbins, California and
Point Arena to Sacramento, California Routes**

Application No. A98-12-037

California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Comments should be submitted to:

John Boccio
CPUC Project Manager

%KEA Environmental, Inc.
601 University Avenue
Sacramento, CA 95825
Contact: John McCullough
Telephone: 916/563-7800
jmccullough@keaenv.com

April 2000

**Williams Communications, Inc.
Fiber Optic Cable System Installation Project – Pt. Arena Routes**

**Final Subsequent Initial Study
And
Mitigated Negative Declaration
(SCH#99082006)**

The California Public Utilities Commission (CPUC) completed a Draft Subsequent Initial Study and Mitigated Negative Declaration (IS/MND) for the Williams Communications Fiber Optic Cable System Installation Project – Pt. Arena Routes. From January 27-31, 2000, CPUC Notices of Availability were mailed to property owners whose properties were crossed or adjacent to rights-of-way (including roads, railroads, and highways) crossed by a project route. A Public Notice was published in general circulation newspapers also announcing the availability of the documents for public review in compliance with the California Environmental Quality Act (CEQA). Copies of the document (Volumes I and II) were submitted to the State Clearinghouse, main county and other libraries and county planning departments in project counties, and other appropriate state, county and city agencies. The 30-day review period began on February 1, 2000 and closed on March 1, 2000 at 5 PM.

As lead CEQA agency, the CPUC prepared a response to written comments received during the public review period on the draft Subsequent IS/MND. Volume III, Comments and Responses to Comments, is incorporated with Volumes I and II to complete this Final Initial Study and Mitigated Negative Declaration.

FINDINGS

Based on the analysis in the Initial Study and the Mitigation Measures identified in the Initial Study and listed the Mitigated Negative Declaration, the CPUC finds that the Williams Communications Fiber Optic Cable System Installation Project will not have a significant effect on the environment.



Paul Clanon, Director
Analysis Branch
Energy Division
California Public Utilities Commission

4-17-00

Date

The environmental factors checked below would potentially be affected by this project, (i.e., the project would involve at least one impact that is a "Potentially Significant Impact"), as indicated by the checklist on the following pages.

- | | | |
|---|--|--|
| <input checked="" type="checkbox"/> Aesthetics | <input type="checkbox"/> Agricultural Resources | <input checked="" type="checkbox"/> Air Quality |
| <input checked="" type="checkbox"/> Biological Resources | <input checked="" type="checkbox"/> Cultural Resources | <input type="checkbox"/> Geology/Soils |
| <input checked="" type="checkbox"/> Hazards and Hazardous Materials | <input checked="" type="checkbox"/> Hydrology/Water Quality | <input checked="" type="checkbox"/> Land Use/Planning |
| <input type="checkbox"/> Mineral Resources | <input checked="" type="checkbox"/> Noise | <input type="checkbox"/> Population/Housing |
| <input type="checkbox"/> Public Services | <input type="checkbox"/> Recreation | <input checked="" type="checkbox"/> Transportation/Traffic |
| <input type="checkbox"/> Utilities/Service Systems | <input checked="" type="checkbox"/> Mandatory Findings of Significance | |

Determination (to be completed by the lead agency):

On the basis of this initial evaluation:

- ☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a **NEGATIVE DECLARATION** will be prepared.
- ☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions to the project have been made by or agreed to by the project applicant. A **MITIGATED NEGATIVE DECLARATION** will be prepared.
- ☐ I find that the proposed project MAY have a significant effect on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required.
- ☐ I find that the proposed project MAY have an impact on the environment that is "potentially significant" or "potentially significant unless mitigated" but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards and (2) has been addressed by mitigation measures based on the earlier analysis, as described on attached sheets. An **ENVIRONMENTAL IMPACT REPORT** is required, but it must analyze only the effects that remain to be addressed.
- ☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier **ENVIRONMENTAL IMPACT REPORT** or **NEGATIVE DECLARATION** pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier **ENVIRONMENTAL IMPACT REPORT** or **NEGATIVE DECLARATION**, including revisions or mitigation measures that are imposed upon the project, nothing further is required.

Paul Clanton

Signature

4-17-00

Date

PAUL CLANTON

Printed Name

CPUC

For

Executive Summary

This subsequent initial study/mitigated negative declaration (IS/MND) has been prepared to analyze the potential environmental effects of Williams Communications, Inc.'s (Williams') proposal to install a fiber optic cable system and related facilities from the community of Point Arena in Mendocino County to the community of Robbins in Sutter County and from Point Arena to the City of Sacramento in Sacramento County. These projects are analyzed at two levels in this document. The general characteristics of the projects and their potential effects are examined at a program level. The route-specific environmental settings and potential effects are examined at a project-specific level. Mitigation measures for potentially significant effects are identified at both levels. Williams has committed to avoidance of impacts through project design and adoption of constraints-driven mitigation measures as part of the projects.

On October 21, 1999, the California Public Utilities Commission (CPUC) approved an initial study/mitigated negative declaration (IS/MND) for Williams' Fiber Optic Cable System Installation Project - California Network (California Public Utilities Commission 1999). The Point Arena to Robbins project is a modification to a project route approved in the previous California Environmental Quality Act (CEQA) document. The Point Arena to Sacramento project is a diverse connection to supplement the project route approved in the previous CEQA document. A subsequent IS/MND is required when an IS/MND has already been adopted and "substantial changes" are proposed to a project that would result in the "involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects" but where the project proponent commits to measures that would mitigate these new effects to a less-than-significant level (CEQA Guidelines Section 15162). As a subsequent IS/MND, the CPUC-approved IS/MND is incorporated in this document by reference.

This subsequent IS/MND concludes that, given the construction approach, design elements, and mitigation built into the projects and the mitigation measures included herein, no significant effect on the environment will occur and no substantial evidence exists in light of the whole record that the projects may have a significant effect on the environment.

PROJECT DESCRIPTION

As detailed in Chapter 2, "Project Description", of this subsequent IS/MND, Williams proposes to install and operate a fiber optic cable communications network throughout California to provide facilities-based and resale InterLATA and IntraLATA interexchange services. Williams has applied to the CPUC and has been granted a Certificate of Public Convenience and Necessity authorizing Williams to install a fiber optic cable network within the state, including necessary related facilities.

Williams' Point Arena to Robbins and Point Arena to Sacramento projects propose to install several (three or more), high-density polyethylene conduits carrying fiber optic cables primarily within existing, disturbed rights-of-way (i.e., railroads or roads) between Point Arena and Robbins and Point Arena to Sacramento. Approximately 99% of the work would be conducted inside existing, disturbed road or railroad rights-of-way and would be buried through use of plowing or trenching techniques. In addition to the fiber optic cable, three optical amplification (OP-AMP) or regenerator stations along the Point Arena to Robbins project route and four OP-AMP or regenerator stations along the Point Arena to Sacramento project route would be installed at intervals to boost the transmitted signals. For the Point Arena to Robbins project route,

they would be located in Ukiah, Clearlake Oaks, and Arbuckle on private land adjacent to the project route. For the Point Arena to Sacramento project route, they would be located in Yorkville, Windsor/Fulton, Schellville, and Elmira on private land adjacent to the project route.

Several standard construction methods would be used to install the conduit and cable along these project routes. Chapter 2, "Project Description", contains a detailed description of these methods. The particular methods to be used along this project route includes the preferred installation methods as follows:

- plowing or trenching within existing railroad rights-of-way,
- plowing or trenching in road rights-of-way, and
- directional bore.

Plowing requires use of a tracked vehicle with a conduit reel on the front and a plow blade on the back. The plow furrows the soil and installs the conduit simultaneously. In some instances, the soil may be pre-ripped by a tractor in front of the plow. Trenching typically involves use of a rubber-tired backhoe or an excavator to dig a 1-foot-wide by 4-foot-deep trench. After the conduit is installed in the trench, the trench is backfilled and restored. Additionally, at sensitive streams (i.e., streams supporting sensitive plant, animal, or fish species or critical habitat) with flowing water, or where necessary to avoid sensitive resources such as wetlands, threatened and endangered species, sensitive plant populations, cultural or paleontological resources, guided or directional boring, bridge attachments (if available), or minor route modifications within the rights-of-way will be used. Boring will also be used in some instances to cross major roads to minimize traffic disruptions.

The primary approach to mitigation for the Williams' projects is avoidance of impacts. As described more fully in Chapter 2, "Project Description", the projects incorporate mitigation into design and construction approach to avoid or reduce possible environmental impacts to less-than-significant levels. The commitments include development and implementation of a reclamation plan, fire prevention and response plan, and storm water pollution prevention plan (including erosion control and spill prevention countermeasures). Wetlands, rivers and streams, sensitive habitats, cultural resources, and other environmentally sensitive areas would be avoided during installation of the conduit and cable and siting of the regenerator/OP-AMP stations through rerouting, boring, or bridge attachment where available. Specific mitigation measures have also been identified in this subsequent IS/MND and adopted by Williams to avoid or reduce the impacts of the projects to less-than-significant levels. These measures are described in Chapter 5A, "Environmental Impacts and Mitigation Measures for Point Arena to Robbins", and Chapter 5B, "Environmental Impacts and Mitigation Measures for Point Arena to Sacramento".

POINT ARENA TO ROBBINS PROJECT ROUTE

Following is a brief description of the general location of the project route. Detailed information is provided in Chapters 3, "Project Route Descriptions", and 4A, "Environmental Setting for Point Arena to Robbins".

The project route would connect the AT&T Corp. (AT&T) Japan cable landing near Manchester in Mendocino County with the community of Robbins. The project route would be located predominantly in state highway, county road, and railroad rights-of-way and would pass through private lands only in a few locations, such as private access roads. The project would cross Mendocino, Lake, Colusa, Yolo, and Sutter Counties and the communities of Manchester, Booneville, Ukiah, Capella, and Robbins. Three OP-AMP stations would be located on private property outside existing rights-of-way.

The Point Arena to Robbins project route is divided into a west and east segment, connected in the middle by approximately 80 miles of existing aerial dark fiber (e.g., unlit fiber optic cable) carried by an existing Pacific Gas and Electric (PG&E) transmission line. The PG&E portion of the project route, which would begin in Capella in Mendocino County, cross Lake County, and end on Walnut Drive in Colusa County, is not addressed in this subsequent IS/NMD because it is an existing fiber optic cable.

As shown in **Table 3-1** in Chapter 3, "Project Route Descriptions", the west segment would transverse 27.58 miles of local roads, 20.21 miles of state highways, 8.82 miles of railroad rights-of-way, and 0.09 mile of private road. The east segment would transverse 44.24 miles of local roads and 0.78 mile of private road. The total project route would cross 101.73 miles (excluding the 80 miles of existing PG&E transmission line).

POINT ARENA TO SACRAMENTO PROJECT ROUTE

Following is a brief description of the general location of the project route. Detailed information is provided in Chapters 3, "Project Route Descriptions", and 4B, "Environmental Setting for Point Arena to Sacramento".

The project route would connect the AT&T Japan cable landing near Manchester in Mendocino County with the City of Sacramento. The project route would be located predominantly in state highway, county road, and railroad rights-of-way and would pass through private lands only in a few locations, such as private access roads. The project would cross Mendocino, Sonoma, Napa, Solano, Yolo, and Sacramento Counties and the communities of Manchester, Point Arena, Yorkville, Cloverdale, Healdsburg, Windsor, Fulton, Santa Rosa, Cotati, Rohnert Park, Schellville, Cordelia, Fairfield/Suisun City, Davis, West Sacramento, and Sacramento. Four OP-AMP stations would be located on private property outside existing rights-of-way.

As shown in **Table 3-2** in Chapter 3, "Project Route Descriptions", the project route would transverse 27.58 miles of local roads, 47.24 miles of state highways, 52.13 miles of railroad rights-of-way, and 3.35 miles of private road. The total project route would cross 184.17 miles.

SUMMARY OF MITIGATION MEASURES

The projects have been designed by Williams, based on biological and cultural resources constraints information, to avoid significant environmental impacts through site design and construction approach or to reduce such effects to less-than-significant levels through the application of additional mitigation measures. These additional mitigation measures are discussed in detail in Chapter 5A, "Environmental Impacts and Mitigation Measures for Point Arena to Robbins", Chapter 5B, "Environmental Impacts and Mitigation Measures for Point Arena to Sacramento", and summarized in **Table S-1** and **Table S-2**.

GROWTH-INDUCING IMPACTS

The projects would serve the expanding telecommunications market in California, nationally and internationally. The contribution of these projects to California's projected population growth would be negligible because it is not a primary factor in selecting whether to move to California and because much of the growth is independent of the availability of fiber optic capacity.

California is growing at a rapid pace, with annual increases projected to average approximately 1.6% over the next 10 years. At least half of the projected population increase would be from births to existing residents. (California Department of Finance 1998.) Potential residents consider a variety of factors when

deciding to move to California, including job availability, salaries, relative housing cost, quality of schools, commuting distance, and recreational opportunities. As population increases, so will the demand for telecommunications. Stand-alone fiber optic cable is one means of meeting this demand. Others are wireless technology and expanding the capacity of existing telephone lines.

CUMULATIVE IMPACTS

The potential cumulative impacts of the projects are considered to be negligible and less than significant. As discussed in Chapter 5A, "Environmental Impacts and Mitigation Measures for Point Arena to Robbins", and Chapter 5B, "Environmental Impacts and Mitigation Measures for Point Arena to Sacramento", through compliance with standards established for environmental protection and incorporation of project elements and mitigation measures designed to avoid impacts or reduce them to below the level of significance, no significant impacts would occur. Therefore, the projects would not contribute to any significant cumulative impacts.

Table S-1. Summary of Impacts and Mitigation Measures for the Point Arena to Robbins Project Route

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
AESTHETICS			
Possible Temporary Minor Changes in Landscape from Trenching Operations	LTS	None required	LTS
Possible Temporary Minor Changes in the Existing Visual Character or Quality of a Site	LTS	None required	LTS
Possible Minimal Visual Effect Resulting from Construction of Regenerator/OP-AMP Stations	S	Mitigation Measure A-1: Design Regenerator/OP-AMP Stations to Be Unobtrusive	LTS
AGRICULTURAL RESOURCES			
Conversion of Prime Farmland to a Non-Agricultural Use	LTS	None required	LTS
AIR QUALITY			
Increased Levels of Air Pollutants during Construction Exceeding Air District Thresholds	S	Mitigation Measure AQ-1: Implement Construction Best Management Practices	LTS
Potential Operational Emissions Exceeding Limits from Backup Generators	LTS	None required	LTS
Temporary Generation of Odors from Diesel Exhaust during Construction and from Diesel Backup Generators at Regenerator/OP-AMP Stations	LTS	None required	LTS
BIOLOGICAL RESOURCES			
Possible Disturbance of Special-Status Plant Populations	S	Mitigation Measure B-1: Avoid Impacts on Coast Lily and Other Threatened, Endangered, and Candidate Species by Establishing and Observing Exclusion Zones Mitigation Measure B-2: Avoid Impacts on CNPS Lists 2 and 4 Special-Status Plant Populations by Implementing Specific Measures	LTS
Possible Introduction of New Noxious Weeds or Spread of Existing Noxious Weed Infestations	S	Mitigation Measure B-3: Avoid the Dispersal of Noxious Weeds in the Fiber Optic Cable and Associated Facility Rights-of-Way	LTS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Construction Activities Near Areas that are Habitat for the Valley Elderberry Longhorn Beetle	S	Mitigation Measure B-4: Avoid Disturbance to Elderberry Shrubs by Establishing and Observing Exclusion Zones	LTS
Possible Mortality and Temporary Habitat Disturbance of Giant Garter Snake	S	Mitigation Measure B-5: Avoid Disturbance to Giant Garter Snake Habitat	LTS
Possible Disturbance of Habitat for Non-Federally Listed Special-Status Amphibians and Reptiles	S	Mitigation Measure B-6: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones	LTS
Construction Activities near Areas with Potentially Active Nonlisted Special-Status Raptor Nests and Other Potential Nesting Habitat	S	Mitigation Measure B-6: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones	LTS
Possible Disturbance of Active Swainson's Hawk Nests	S	Mitigation Measure B-7: Avoid Disturbance to Special-Status Reptiles and Amphibians by Boring Under Streams or Constructing Barrier Fencing and Relocating Animals During Construction	LTS
Possible Disturbance to Active Northern Spotted Owl or Northern Goshawk Nests	S	Mitigation Measure B-8: Avoid Disturbing Active Special-Status Raptor Nests	LTS
Construction Activities in Areas near Potential Active Burrowing Owl Nests	S	Mitigation Measure B-9: Avoid Disturbing Active Swainson's Hawk Nests by Establishing and Observing Buffer Zones	LTS
Construction Activities on Bridges that are Nesting Habitat for Swallows	S	Mitigation Measure B-10: Avoid Disturbing Northern Spotted Owl and Northern Goshawk Nests by Constructing During the Non-Breeding Season or by Establishing and Observing Buffer Zones Around Active Nests	LTS
		Mitigation Measure B-11: Avoid Disturbing Active Burrowing Owl Nests and Implement Standard DFG Guidelines during the Nonbreeding Season	LTS
		Mitigation Measure B-12: Avoid Disturbance to Nesting Swallows by Implementing Timing Restrictions, Removing Nests, and Installing Mesh Netting	LTS

Table S-1. Continued

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Construction Activities in Areas Near Bat Maternity Roosting Sites	S	Mitigation Measure B-6: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones Mitigation Measure B-13: Avoid Bat Maternity Roost by Postponing Bridge Attachments	LTS
Possible Disturbance of Other Special-Status Wildlife Species	S		LTS
Temporary Construction Activities in Streams that Support Threatened, Endangered, and Special-Status Fish Species	S	Mitigation Measure B-6: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones Mitigation Measure B-14: Avoid and Minimize Disturbance of Woody Riparian Vegetation along Drainages Mitigation Measure B-15: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Substantially Disturbed during Construction Activities Mitigation Measure B-16: Avoid In-Water Construction in All Flowing Streams That Support Sensitive Fish Species at or below the Crossing Location	LTS
Possible Removal or Disturbance of Woody Riparian Vegetation	S	Mitigation Measure B-6: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones Mitigation Measure B-14: Avoid and Minimize Disturbance of Woody Riparian Vegetation along Drainages Mitigation Measure B-15: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Disturbed during Construction Activities	LTS

Table S-1. Continued

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Possible Disturbance of Sensitive Biological Resources from the Use of Staging Areas outside the Delineated Proposed Project Study Area and Not within Previously Paved or Graveled Areas	S	Mitigation Measure B-17: Survey Proposed Staging Areas before Construction and Implement Avoidance Measures, if Required	LTS
Possible Short-Term Disturbance of 0.39 Acre to 2.63 Acres Waters of the United States (Including Wetland Communities)	S	Mitigation Measure B-15: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Substantially Disturbed during Construction Activities	LTS
		Mitigation Measure B-18: Minimize Disturbance and Restore Other Waters of the United States to Preproject Conditions	
		Mitigation Measure B-19: Minimize Disturbance and Restore Jurisdictional Wetlands to Preproject Conditions	
		Mitigation Measure B-20: Avoid and Protect Specified Jurisdictional Wetlands Adjacent to Construction Areas	
Possible Temporary Disturbances to Wildlife Movements	S	Mitigation Measure B-6: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones	LTS
		Mitigation Measure B-7: Avoid Disturbance to Special-Status Reptiles and Amphibians by Boring Under Streams or Constructing Barrier Fencing and Relocating Animals During Construction	
Possible Wildlife Entrapment in Open Trenches	S	Mitigation Measure B-21: Fill or Cover Open Trenches Daily	LTS
Possible Temporary Disturbance of Common Wildlife Species	LTS	None required	LTS

Table S-1. Continued

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Possible Temporary Increases in Sedimentation and Turbidity Possibly Affecting Fish	S	<p>Mitigation Measure B-14: Avoid and Minimize Disturbance of Woody Riparian Vegetation along Drainages</p> <p>Mitigation Measure B-15: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Substantially Disturbed during Construction Activities</p> <p>Mitigation Measure B-16: Avoid in-Water Construction in All Flowing Streams That Support Sensitive Fish Species at or below the Crossing Location</p> <p>Mitigation Measure B-18: Minimize Disturbance and Restore Other Waters of the United States to Preproject Conditions</p>	LTS
Possible Short-Term Disturbance of Fish Habitat	S	<p>Mitigation Measure B-14: Avoid and Minimize Disturbance of Woody Riparian Vegetation along Drainages</p> <p>Mitigation Measure B-15: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Substantially Disturbed during Construction Activities</p> <p>Mitigation Measure B-16: Avoid in-Water Construction in All Flowing Streams That Support Sensitive Fish Species at or below the Crossing Location</p> <p>Mitigation Measure B-18: Minimize Disturbance and Restore Other Waters of the United States to Preproject Conditions</p>	LTS
Possible Short-Term Degradation of Fish Habitat from Accidental Seepage of Bentonite into Streams	LTS	None required	LTS
Possible Effects on Fish from Accidental Spills of Toxic Substances during Construction	LTS	None required	LTS

Table S-1. Continued

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
CULTURAL RESOURCES			
Possible Long-Term Disturbance of Cultural Resource Sites, C-Ukiah-1 (Ukiah Railroad Station and Loading Platform), C-Arbuckle-1 (Concrete Road By-pass Structure over Colusa Trough Site Ca-Col-219-H), C-Arbuckle-2 (Colusa Trough Site Ca-Col-219H), C-Elledge Peak-1 (CA-Men-1108), and Isolates (C-Kirkville-1)	S	Mitigation Measure C-1: Develop and Implement Avoidance Procedures Mitigation Measure C-2: Develop and Implement Cultural Resources Monitoring Plan Mitigation Measure C-3: Conduct Test Excavation to Determine Resources Significance, and if Significant, Conduct Data Recovery Excavation	LTS
Possible Long-Term Damage to Unidentified Buried Cultural Resource Sites from Ground-Disturbing Activities	S	Mitigation Measure C-4: Stop Work If Cultural Resources Are Discovered during Ground-Disturbing Activities.	LTS
Possible Disturbance to Paleontological Resources during Construction	S	Mitigation Measure C-5: Retain a Qualified Paleontologist to Oversee Construction Activities and Prepare a Report.	LTS
Possible Long-Term Damage to Previously Unidentified Human Remains on Nonfederal Land from Ground-Disturbing Activities	S	Mitigation Measure C-6: Comply with State Laws Pertaining to the Discovery of Human Remains.	LTS
GEOLOGY AND SOILS			
Possible Temporary Damage to the Fiber Optic Cable System from Strong Earthquake-Induced Ground Shaking	LTS	None required	LTS
Possible Temporary Damage to the Fiber Optic Cable System from Earthquake Fault Displacement	LTS	None required	LTS

Table S-1. Continued

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Possible Temporary Accelerated Erosion and Sedimentation from Soil Disturbance and Vegetation Removal	LTS	None required	LTS
Possible Temporary Damage to the Fiber Optic Cable System from Earthquake-Induced Liquefaction	LTS	None required	LTS
Possible Long-Term Slope Mass Failure	LTS	None required	LTS
Potential Damage to the Cable System from Seasonal Soil Expansion and Contraction	LTS	None required	LTS
HAZARDS AND HAZARDOUS MATERIALS			
Possible Temporary Exposure to or Release of Hazardous Materials during Construction	S	Mitigation Measure H-1: Ensure Proper Labeling, Storage, Handling, and Use of Hazardous Materials.	LTS
Possible Exposure of the Public or Environment to Hazardous Materials Sites	LTS	None required	LTS
Possible Temporary Limited Emergency Access	LTS	None required	LTS
Possible Temporary Exposure of People or Structures to Wildland Fires	LTS	None required	LTS
HYDROLOGY AND WATER QUALITY			
Possible Temporary Transport of Sediment to Waterbodies	S	None required. As defined in the project description, avoidance of sensitive drainages, construction best management practices, and the SWPPP will ensure that potential impacts on water are minimized to a less-than-significant level.	LTS
Possible Temporary Disruption of Bed and Bank Sediments in Channels during Fiber Optic Conduit and Cable Installation	S	None required. As defined in the project description, avoidance of sensitive drainages, construction best management practices, and the SWPPP will ensure that potential impacts on water are minimized to a less-than-significant level.	LTS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Possible Long-Term In-Channel Erosion and Deposition from Decreased Channel Stability	S	None required. Mitigation Measure B-6 has been incorporated into Williams' construction mitigation, ensuring that there will be a less-than-significant impact on channel erosion and deposition.	LTS
Possible Temporary Degraded Water Quality from Accidental Spills of Hazardous Materials during Construction	S	None required. Mitigation measures identified in the SWPPP will ensure a less-than-significant impact on water quality resulting from accidental spills of hazardous materials.	LTS
Possible Temporary Water Quality Degradation and Siltation from Accidental Seepage of Bentonite into Streams	S	None required. Mitigation measures identified in the SWPPP will and the "General Project Commitments" described in the Biological Resources section of Chapter 5 will ensure a less-than-significant impact on water degradation and siltation from an accidental seepage of bentonite into streams.	LTS
LAND USE AND PLANNING			
Possible Conflict with Local Land Use Plans	S	Mitigation Measure LU-1: Obtain and Comply with Local Zoning Permits	LTS
Possible Conflict with Habitat Conservation or Natural Community Conservation Plans	LTS	None required	LTS
MINERAL RESOURCES			
Impact: Possible Conflict with Future Mineral Exploration and Access to Resource Sites	LTS	None required	LTS
NOISE			
Temporary Exposure of Residences and Other Sensitive Receptors to Construction Noise in Excess of Local Standards	S	Mitigation Measure N-1: Employ Noise-Reducing Construction Practices	LTS
Temporary Exposure of Residences or Other Sensitive Uses to Localized Groundborne Vibration and Noise	LTS	None required	LTS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Exposure of Nearby Sensitive Receptors to Excessive Noise Levels from Use of Emergency Backup Generators and Other Support Equipment at Regenerator/OP-AMP Stations	S	Mitigation Measure N-2. Design and Locate Emergency Backup Generators and Other Support Equipment to Limit Noise from the Engine Generator	LTS
POPULATION AND HOUSING			
No Impacts			
PUBLIC SERVICES			
The Construction of Regenerator/op-amp Facilities Would Have No Impact on Public Services Except Fire Protection, Which Could Be Minimally Affected by a Resulting Increase in Need for Fire Services	LTS	None required. As defined in the project description, a fire prevention and response plan will be implemented to ensuring there will be a less-than-significant impact.	LTS
RECREATION			
Possible Temporary Disruption of Hunting Opportunities	LTS	None required	LTS
TRANSPORTATION/TRAFFIC			
Temporary Traffic Disruption within Road Rights-of-Way	S	Mitigation Measure T-1: Obtain and Comply with Local and State Road Encroachment Permits	LTS
Temporary Disruption of Traffic	LTS	None required	LTS
Temporary Increase in Accident Risk	S	Mitigation Measure T-1: Obtain and Comply with Local and State Road Encroachment Permits	LTS
Temporary Effects on Traffic Flow	S	Mitigation Measure T-1: Obtain and Comply with Local and State Road Encroachment Permits	LTS
Creation of Limited New, Temporary Vehicle Parking	S	Mitigation Measure T-1: Obtain and Comply with Local and State Road Encroachment Permits	LTS

UTILITIES AND SERVICE SYSTEMS

No Impacts

Table S-1. Continued

S = significant.
LTS = less than significant.

Table S-2. Summary of Impacts and Mitigation Measures for the Point Arena to Sacramento Project Route

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
AESTHETICS			
Possible Temporary Minor Changes in Landscape from Trenching Operations	S	None required. As defined in the project description, a reclamation plan will be implemented to ensure a less-than-significant impact.	LTS
Possible Temporary Minor Changes in the Existing Visual Character or Quality of a Site	S	None required. As defined in the project description, a SWPPP and reclamation plan will be implemented to ensure a less-than-significant impact.	LTS
Possible Minimal Visual Effect Resulting from Construction of OP-AMP/Regenerator Stations	S	Mitigation Measure A-1: Design OP-AMP/Regenerator Stations to Be Unobtrusive	LTS
AGRICULTURAL RESOURCES			
Conversion of Prime Farmland to a Non-Agricultural Use	LTS	None required	LTS
AIR QUALITY			
Increased Levels of Air Pollutants during Construction Exceeding Air District Thresholds	S	Mitigation Measure AQ-1: Implement Construction Best Management Practices	LTS
Potential Operational Emissions Exceeding Limits from Backup Generators	LTS	None required	LTS
Temporary Generation of Odors from Diesel Exhaust during Construction and from Diesel Backup Generators at OP-AMP/Regenerator Stations	LTS	None required	LTS
BIOLOGICAL RESOURCES			
Possible Disturbance of Special-Status Plant Populations	S	Mitigation Measure B-1: Avoid Impacts on Threatened, Endangered, and Candidate and Other Special-Status Plant Species by Establishing and Observing Exclusion Zones	LTS
		Mitigation Measure B-2: Avoid Impacts on CNPS Lists 2 and 4 Special-Status Plant Populations by Implementing Specific Measures	

Table S-2. Continued
UTILITIES AND SERVICE SYSTEMS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Possible Introduction of New Noxious Weeds or Spread of Existing Noxious Weed Infestations	S	Mitigation Measure B-3: Avoid the Dispersal of Noxious Weeds in the Fiber Optic Cable and Associated Facility Rights-of-Way	LTS
Construction Activities Near Areas that are Habitat for the Valley Elderberry Longhorn Beetle	S	Mitigation Measure B-4: Avoid Disturbance to Elderberry Shrubs by Establishing and Observing Exclusion Zones	LTS
Possible Mortality and Temporary Habitat Disturbance of Giant Garter Snake	S	Mitigation Measure B-5: Avoid Disturbance to Giant Garter Snake Habitat	LTS
		Mitigation Measure B-6: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones	
Possible Disturbance of Habitat for Non-Federally Listed Special-Status Amphibians and Reptiles	S	Mitigation Measure B-6: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones	LTS
		Mitigation Measure B-7: Avoid Disturbance to Special-Status Reptiles and Amphibians by Boring Under Streams or Constructing Barrier Fencing and Relocating Animals During Construction	
Construction Activities near Areas with Potentially Active Nonlisted Special-Status Raptor Nests and Other Potential Nesting Habitat	S	Mitigation Measure B-8: Avoid Disturbing Active Special-Status Raptor Nests	LTS
Possible Disturbance of Active Swainson's Hawk Nests	S	Mitigation Measure B-9: Avoid Disturbing Active Swainson's Hawk Nests by Establishing and Observing Buffer Zones	LTS
Construction Activities in Areas near Potential Active Burrowing Owl Nests	S	Mitigation Measure B-10: Avoid Disturbing Active Burrowing Owl Nests and Implement Standard DFG Guidelines during the Nonbreeding Season	LTS
Construction Activities on Bridges that are Nesting Habitat for Swallows	S	Mitigation Measure B-11: Avoid Disturbance to Nesting Swallows by Implementing Timing Restrictions, Removing Nests, and Installing Mesh Netting	LTS

Table S-2. Continued
UTILITIES AND SERVICE SYSTEMS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Construction Activities in Areas Near Bat Maternity Roosting Sites	S	Mitigation Measure B-6: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones Mitigation Measure B-12: Avoid Bat Maternity Roost by Postponing Bridge Attachments	LTS
Construction Activities in Areas that are Habitat for the Salt Marsh Harvest Mouse	S	Mitigation Measure B-13: Avoid Habitats that Support Salt Marsh Harvest Mouse.	LTS
Possible Disturbance of Other Special-Status Wildlife Species	LTS	None required	LTS
Temporary Construction Activities in Streams that Support Threatened, Endangered, and Special-Status Fish Species	S	Mitigation Measure B-6: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones Mitigation Measure B-14: Avoid and Minimize Disturbance of Woody Riparian Vegetation along Drainages Mitigation Measure B-15: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Substantially Disturbed during Construction Activities Mitigation Measure B-16: Avoid In-Water Construction in All Flowing Streams That Support Sensitive Fish Species at or below the Crossing Location	LTS

Table S-2. Continued
UTILITIES AND SERVICE SYSTEMS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Possible Removal or Disturbance of Woody Riparian Vegetation	S	<p>Mitigation Measure B-6: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones</p> <p>Mitigation Measure B-14: Avoid and Minimize Disturbance of Woody Riparian Vegetation along Drainages</p> <p>Mitigation Measure B-15: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Disturbed during Construction Activities</p>	LTS
Possible Disturbance of Sensitive Biological Resources from the Use of Staging Areas outside the Delineated Proposed Project Study Area and Not within Previously Paved or Graveled Areas	S	Mitigation Measure B-17: Survey Proposed Staging Areas before Construction and Implement Avoidance Measures, if Required	LTS
Possible Short-Term Disturbance of 0.97 Acres to 6.43 Acres of Waters of the United States (Including Wetland Communities)	S	<p>Mitigation Measure B-15: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Substantially Disturbed during Construction Activities</p> <p>Mitigation Measure B-18: Minimize Disturbance and Restore Other Waters of the United States to Preproject Conditions</p> <p>Mitigation Measure B-19: Minimize Disturbance and Restore Jurisdictional Wetlands to Preproject Conditions</p> <p>Mitigation Measure B-20: Avoid and Protect Specified Jurisdictional Wetlands Adjacent to Construction Areas</p>	LTS

Table S-2. Continued
UTILITIES AND SERVICE SYSTEMS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Possible Temporary Disturbances to Wildlife Movements	S	Mitigation Measure B-6: Avoid Riparian and Wetland Habitats That Support Special-Status Species by Establishing and Observing Exclusion Zones	LTS
		Mitigation Measure B-7: Avoid Disturbance to Special-Status Reptiles and Amphibians by Boring Under Streams or Constructing Barrier Fencing and Relocating Animals During Construction	
Possible Wildlife Entrapment in Open Trenches	S	Mitigation Measure B-21: Fill or Cover Open Trenches Daily	LTS
Possible Temporary Disturbance of Common Wildlife Species	LTS	None required	LTS
Possible Temporary Increases in Sedimentation and Turbidity Possibly Affecting Fish	S	Mitigation Measure B-14: Avoid and Minimize Disturbance of Woody Riparian Vegetation along Drainages	LTS
		Mitigation Measure B-15: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Substantially Disturbed during Construction Activities	
		Mitigation Measure B-16: Avoid in-Water Construction in All Flowing Streams That Support Sensitive Fish Species at or below the Crossing Location	
		Mitigation Measure B-18: Minimize Disturbance and Restore Other Waters of the United States to Preproject Conditions	

Table S-2. Continued
UTILITIES AND SERVICE SYSTEMS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Possible Short-Term Disturbance of Fish Habitat	S	<p>Mitigation Measure B-14: Avoid and Minimize Disturbance of Woody Riparian Vegetation along Drainages</p> <p>Mitigation Measure B-15: Conduct Postconstruction Monitoring in Woody Riparian and Wetland Communities That Are Substantially Disturbed during Construction Activities</p> <p>Mitigation Measure B-16: Avoid in-Water Construction in All Flowing Streams That Support Sensitive Fish Species at or below the Crossing Location</p> <p>Mitigation Measure B-18: Minimize Disturbance and Restore Other Waters of the United States to Preproject Conditions</p>	LTS
Possible Short-Term Degradation of Fish Habitat from Accidental Seepage of Bentonite into Streams	LTS	None required	LTS
Possible Effects on Fish from Accidental Spills of Toxic Substances during Construction	LTS	None required	LTS

Table S-2. Continued
UTILITIES AND SERVICE SYSTEMS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
CULTURAL RESOURCES			
Possible Long-Term Disturbance of Cultural Resource Sites: C-McGuire Ridge-1 (Ca-Men-2019), C-Cloverdale-3 (Ca-Son-1502), C-Asti-1 (C-876), C-Geyersville-1 (Ca-Son-1274), C-Healdsburg-1 (Ca-Son-1449), C-Santa Rosa-1 (Ca-Son-1787/H), C-Santa Rosa-2 (Ca-Son-455/H), C-Santa Rosa-3 (Ca-Son-927), C-Glenn Ellen-1 (Ca-Son-363H), C-Sears Point-1 (Ca-Son-223), C-Sonoma-1 (C-Son-1303H), C-Napa-1 (Ca-Nap-795), C-Napa-2 (Stone masonry bridge) C-Napa-3 (Ca-Nap-189), C-Cuttings Wharf-1 (Ca-Nap-15), C-Dixon-2 (ARS-96-25-01), C-Davis-1 (Ca-Sol-397/Ca-Yol-211)	S	Mitigation Measure C-1: Develop and Implement Avoidance Procedures Mitigation Measure C-2: Develop and Implement Cultural Resources Monitoring Plan Mitigation Measure C-3: Conduct Test Excavation to Determine Resources Significance, and if Significant, Conduct Data Recovery Excavation	LTS
Possible Long-Term Damage to Unidentified Buried Cultural Resource Sites from Ground-Disturbing Activities	S	Mitigation Measure C-4: Stop Work If Cultural Resources Are Discovered during Ground-Disturbing Activities.	LTS
Possible Disturbance to Paleontological Resources during Construction	S	Mitigation Measure C-5: Retain a Qualified Paleontologist to Oversee Construction Activities and Prepare a Report.	LTS
Possible Long-Term Damage to Previously Unidentified Human Remains on Nonfederal Land from Ground-Disturbing Activities	S	Mitigation Measure C-6: Comply with State Laws Pertaining to the Discovery of Human Remains.	LTS
GEOLOGY AND SOILS			
Possible Temporary Damage to the Fiber Optic Cable System from Strong Earthquake-Induced Ground Shaking	LTS	None required	LTS
Possible Temporary Damage to the Fiber Optic Cable System from Earthquake Fault Displacement	LTS	None required	LTS
Possible Temporary Accelerated Erosion and Sedimentation from Soil Disturbance and Vegetation Removal	S	None required. As defined in the project description, a SWPPP will be implemented to ensure a less-than-significant impact.	LTS

Table S-2. Continued
UTILITIES AND SERVICE SYSTEMS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Possible Temporary Damage to the Fiber Optic Cable System from Earthquake-Induced Liquefaction	LTS	None required	LTS
Possible Long-Term Slope Mass Failure	LTS	None required	LTS
Potential Damage to the Fiber Optic Cable System from Seasonal Soil Expansion and Contraction	LTS	None required	LTS
HAZARDS AND HAZARDOUS MATERIALS			
Possible Temporary Exposure to or Release of Hazardous Materials during Construction	S	Mitigation Measure H-1: Ensure Proper Labeling, Storage, Handling, and Use of Hazardous Materials.	LTS
Possible Exposure of the Public or Environment to Hazardous Materials Sites	LTS	None required	LTS
Possible Temporary Limited Emergency Access	S	None required. As defined in the project description, traffic control measures will be implemented to ensure a less-than-significant impact.	LTS
Possible Temporary Exposure of People or Structures to Wildland Fires	S	None required. As defined in the project description, a fire prevention and response plan will be implemented to ensure a less-than-significant impact.	LTS
HYDROLOGY AND WATER QUALITY			
Possible Temporary Transport of Sediment to Waterbodies	S	None required. As defined in the project description, avoidance of sensitive drainages, construction best management practices, and the SWPPP will ensure that potential impacts on water are minimized to a less-than-significant level.	LTS
Possible Temporary Disruption of Bed and Bank Sediments in Channels during Fiber Optic Conduit and Cable Installation	S	None required. As defined in the project description, avoidance of sensitive drainages, construction best management practices, and the SWPPP will ensure that potential impacts on water are minimized to a less-than-significant level.	LTS

Table S-2. Continued
UTILITIES AND SERVICE SYSTEMS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Possible Long-Term In-Channel Erosion and Deposition from Decreased Channel Stability	S	None required. Mitigation Measure B-6 has been incorporated into Williams' construction mitigation, ensuring that there will be a less-than-significant impact on channel erosion and deposition.	LTS
Possible Temporary Degraded Water Quality from Accidental Spills of Hazardous Materials during Construction	S	None required. Mitigation measures identified in the SWPPP will ensure a less-than-significant impact on water quality resulting from accidental spills of hazardous materials.	LTS
Possible Temporary Water Quality Degradation and Siltation from Accidental Seepage of Bentonite into Streams	S	None required. Mitigation measures identified in the SWPPP will and the "General Project Commitments" described in the Biological Resources section of Chapter 5 will ensure a less-than-significant impact on water degradation and siltation from an accidental seepage of bentonite into streams.	LTS
Possible Increased Flood Hazards from Placement of OP-AMP/Regenerator Stations Within the Floodplain	LTS	None required	LTS
LAND USE AND PLANNING			
Possible Conflict with Local Land Use Plans	S	Mitigation Measure LU-1: Obtain and Comply with Local Zoning Permits	LTS
Possible Conflict with Habitat Conservation or Natural Community Conservation Plans	LTS	None required	LTS
MINERAL RESOURCES			
No Impacts			
NOISE			
Temporary Exposure of Residences and Other Sensitive Receptors to Construction Noise in Excess of Local Standards	S	Mitigation Measure N-1: Employ Noise-Reducing Construction Practices	LTS

Table S-2. Continued
UTILITIES AND SERVICE SYSTEMS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Temporary Exposure of Residences or Other Sensitive Uses to Localized Groundborne Vibration and Noise	LTS	None required	LTS
Exposure of Nearby Sensitive Receptors to Excessive Noise Levels from Use of Emergency Backup Generators and Other Support Equipment at OP-AMP/Regenerator Stations	S	Mitigation Measure N-2. Design and Locate Emergency Backup Generators and Other Support Equipment to Limit Noise from the Engine Generator	LTS
POPULATION AND HOUSING			
No Impacts			
PUBLIC SERVICES			
The Construction of OP-AMP/Regenerator Facilities Would Have No Impact on Public Services Except Fire Protection, Which Could Be Minimally Affected by a Resulting Increase in Need for Fire Services	S	None required. As defined in the project description, a fire prevention and response plan will be implemented to ensure a less-than-significant impact.	LTS
RECREATION			
Possible Temporary Disruption of Hunting Opportunities	LTS	None required	LTS
TRANSPORTATION/TRAFFIC			
Temporary Traffic Disruption within Road Rights-of-Way	S	Mitigation Measure T-1: Obtain and Comply with Local and State Road Encroachment Permits	LTS
Temporary Disruption of Traffic	LTS	None required	LTS
Temporary Increase in Accident Risk	S	Mitigation Measure T-1: Obtain and Comply with Local and State Road Encroachment Permits	LTS
Temporary Effects on Traffic Flow	S	Mitigation Measure T-1: Obtain and Comply with Local and State Road Encroachment Permits	LTS

Table S-2. Continued
UTILITIES AND SERVICE SYSTEMS

Impact	Significance Before Mitigation	Mitigation Measure	Significance After Mitigation
Creation of Limited New, Temporary Vehicle Parking	S	Mitigation Measure T-1: Obtain and Comply with Local and State Road Encroachment Permits	LTS
No Impacts			
S = significant. LTS = less than significant.			

(END OF ATTACHMENT A)