

# Corridor 108-267

## Cajon Pass

### Introduction

Corridor 108-267 (Figures 1 and 2) extends north along I-15 from near Devore, CA, to near Summit, CA. Federally designated portions of this corridor are entirely on National Forest System lands. The width is variable and ranges from 7,800 ft to 28,000 ft. Corridor 108-267 is designated as multi-modal and can therefore accommodate both electrical transmission and pipeline projects. The corridor spans 12.5-miles, with 11.3 miles designated on USFS-administered lands. This corridor is entirely in San Bernardino County, California, and almost entirely within the San Bernardino National Forest. There is a small amount of dispersed BLM-administered lands in the northeast corner of the corridor under the jurisdiction of the Barstow Field Office, but those lands were inadvertently omitted from the BLM ROD for the WWEC PEIS for designation as a Section 368 energy corridor. This corridor is entirely in Region 1.

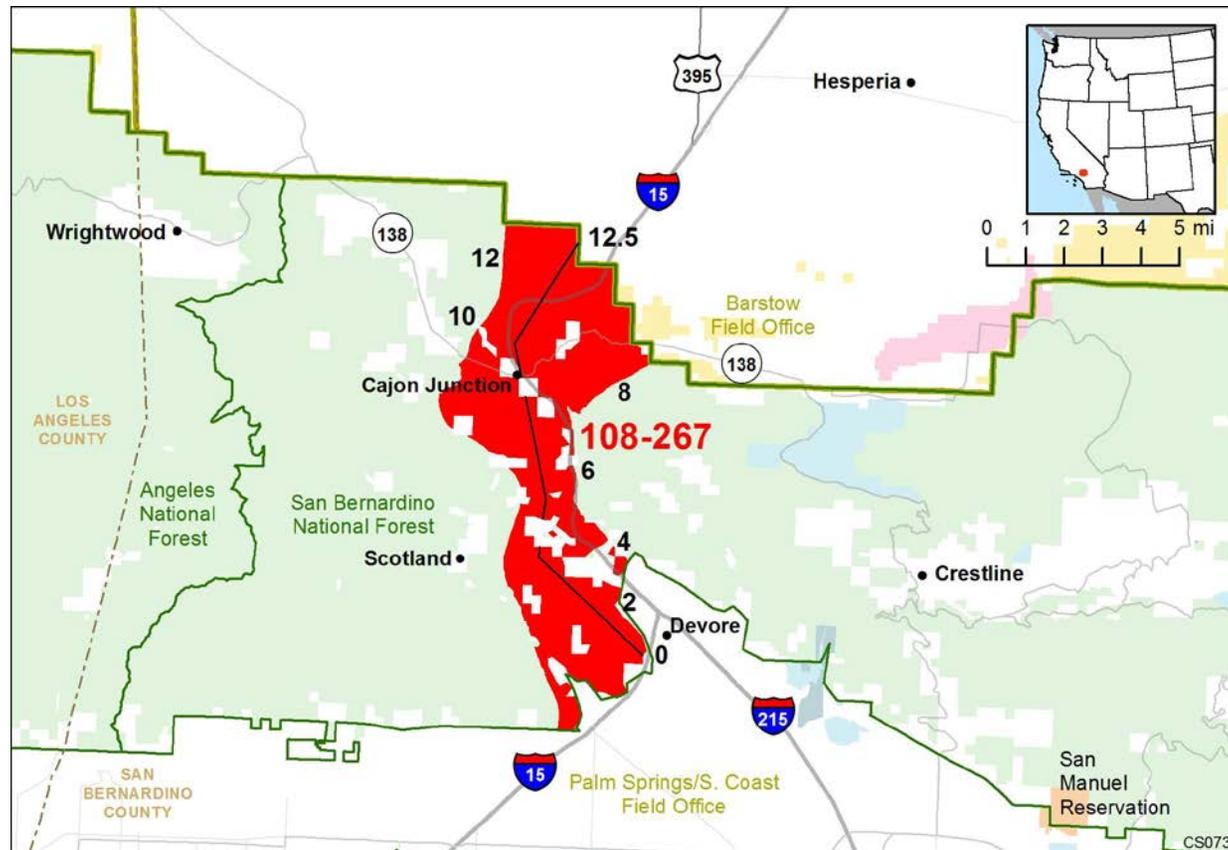
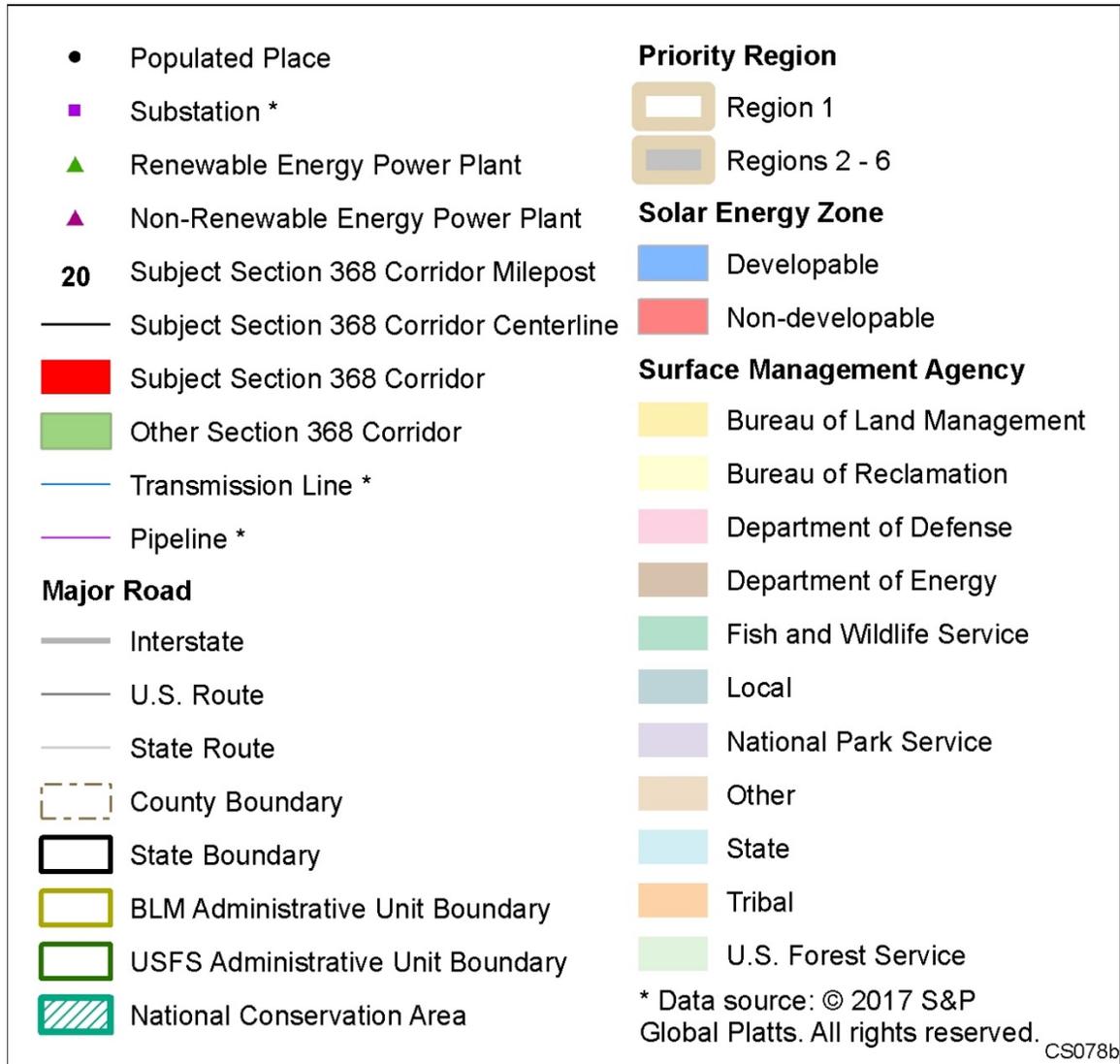


Figure 1. Corridor 108-267



Key

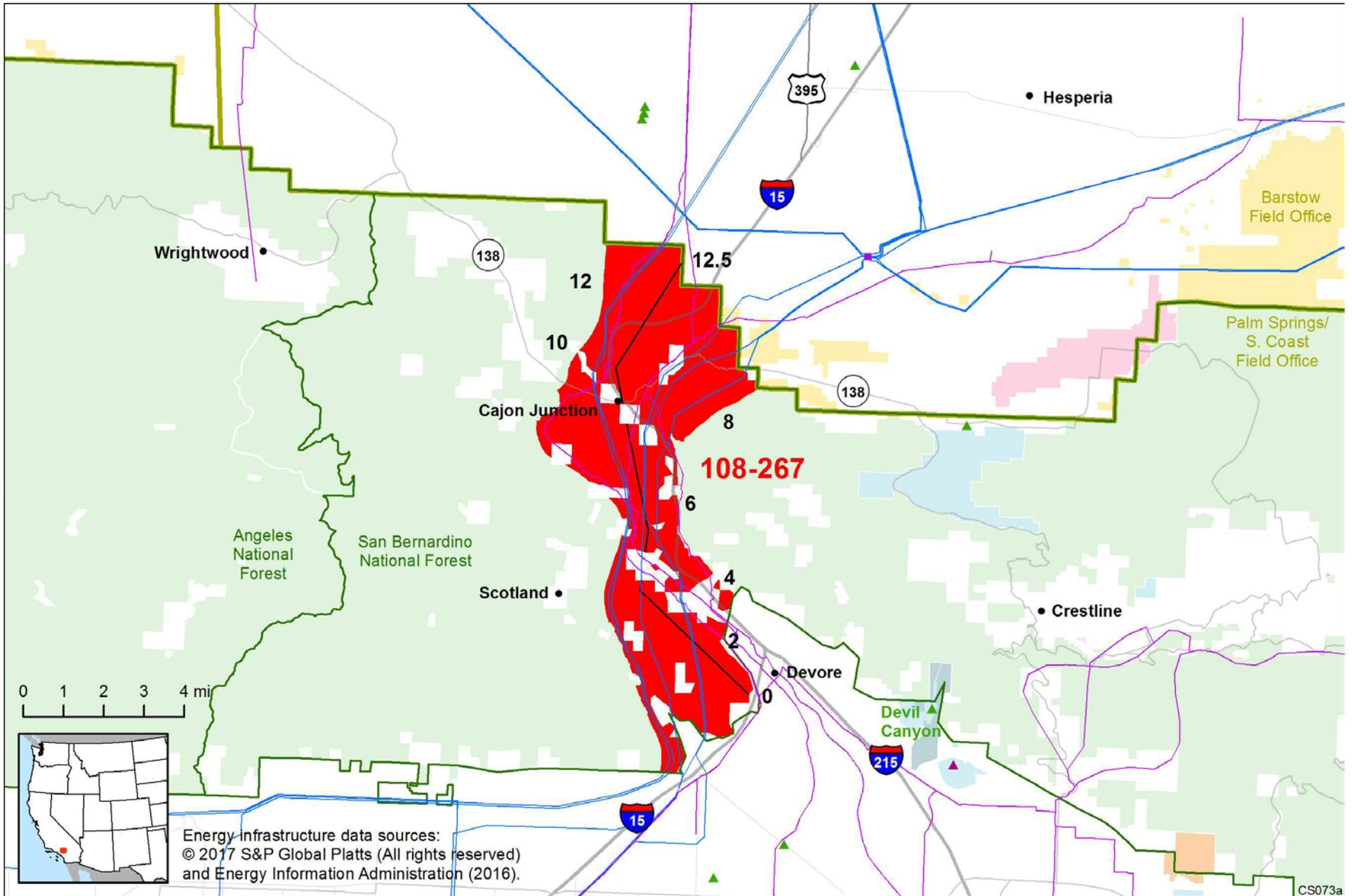


Figure 2. Corridor 108-267, Including Existing Energy Infrastructure

## Corridor Rationale

During scoping for the WWEC PEIS, routes generally following this corridor were suggested by the Western Utility Group. The need to designate this corridor as a Section 368 energy corridor was identified very early in the WWEC PEIS process. The corridor shares a key pathway for energy transport, as well as a variety of other infrastructure, through the San Gabriel Mountains and into the Los Angeles Basin. Corridor designation helps insure that the pathway will continue to provide a route for energy transport into this high-demand area.

*Existing Infrastructure:* The corridor is densely packed with existing infrastructure, including I-15 and the Union Pacific and Burlington Northern Santa Fe railroads, and has existing transmission facilities: two 36-in.-diameter Southern California Gas Company natural gas pipelines, two LADWP 230-kV transmission lines, and three SCE 230-kV transmission lines.

*Potential Future Development:* Platts data indicate a planned Frontier Line 500-kV line in the corridor, but without a final location. Nine power plants are near the corridor. The corridor is located within the Victorville/Barstow RETI 2.0 TAFE and the Dry Lake SEZ is 3.2 miles north of the corridor, providing opportunity for the corridor to accommodate renewable energy development and transmission. Stakeholders provided input that large amounts of new generation into the substation could trigger the need for a new 500-kV line between the SCE substation north of the corridor to a SCE substation south of the corridor in a substation in either Etiwanda or Ontario.

## Corridor of Concern Status

This corridor was not identified in the Settlement Agreement as a corridor of concern.

## Corridor Abstract Update

New data have been added to the Section 368 Energy Corridor Mapping Tool since the release of the draft abstracts in September 2016. A GIS view identifying high-, medium-, and low-conflict areas consistent with the screening criteria in 43 CFR 2804.35(a)-(c) has also been added to the mapping tool. A complete description of the mapping tool and the high-, medium-, and low-conflict areas, and a list of the GIS data sources, are included in the report for the Region 1 Regional Review.

Additions to the corridor analysis table, based on input from stakeholders and additional review by the Agencies, include transmission and pipeline capacity concern (need for new transmission), WWEC purpose (proximity to the RETI 2.0 TAFE), special status species, specially designated areas, and visual resources.

Revisions, deletions, or additions to Section 368 energy corridors would be made only during the land use planning process through a plan amendment for an individual project or a plan revision. However, the Settlement Agreement sets forth a systematic process for the Agencies to review Section 368 energy corridors and provide recommendations for future revisions, deletions, or additions to the corridors. Suggestions for corridor revisions in response to the release of the draft abstracts included evaluating the corridor to determine where it could be narrowed to preserve the viewshed and confine impacts to the I-15 and California Highway 138 road corridors. On the basis of Agency analysis, as well as input provided by stakeholders, corridor revisions, deletions, or additions are not recommended for Corridor 108-267, other than correcting the intended designation of BLM lands in the northeast corner of the corridor.

## Corridor Analysis

The corridor analysis table below identifies concerns affecting Corridor 108-267, the location of the concerns within the corridor, and the results of the analysis of the concerns by the Agencies. Concerns are checked if they are known to apply to the corridor.

**Energy Planning Opportunities**

- Appropriate and acceptable uses
- WWEC purpose (e.g., renewable energy)
- Transmission and pipeline capacity opportunity

**Energy Planning Concerns**

- Physical barrier
- Jurisdictional concern
- Corridor alignment and spacing
- Transmission and pipeline capacity concern

**Land Management Responsibilities and Environmental Concerns**

- Acoustics
- Air quality
- Climate change
- Cultural resources
- Ecological resources
- Environmental justice
- Hydrological resources
- Lands and realty
- Lands with wilderness characteristics

Livestock grazing

- Paleontology
- Public access and recreation
- Socioeconomics
- Soils/erosion
- Specially designated areas
- Tribal concerns
- Visual resources
- Wild horses and burros

**Interagency Operating Procedures**

REGION 1 – CORRIDOR 108-267 – ANALYSIS TABLE							
ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis
<b>ENERGY PLANNING OPPORTUNITY</b>							
<i>WWEC Purpose</i>							
108-267 .new1	USFS	San Bernardino National Forest	San Bernardino, CA	RETI 2.0 Victorville/Barstow TAFE	Entire corridor	GIS Analysis: corridor is located within the Victorville/Barstow TAFE	The TAFE provides an opportunity for the corridor to accommodate transmission tied to renewable energy development.
<b>ENERGY PLANNING CONCERNS</b>							
<i>Corridor Alignment and Spacing</i>							
108-267 .003	BLM and USFS	San Bernardino National Forest and Barstow FO, CA	San Bernardino, CA	Difficult terrain	Entire corridor	GIS Analysis: difficult terrain in the pass has resulted in less efficient use of the corridor width.	The corridor is currently fairly well occupied. There is, however, enough space within the corridor to parallel existing uses (power lines and pipelines), install re-conductor to double circuits, and upgrade existing infrastructure. For example, there would be enough space to upgrade the 287-kV Boulder line, owned by the LADWP, to a 500-kV system.

## REGION 1 – CORRIDOR 108-267 – ANALYSIS TABLE

ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis
108-267 .001	USFS	San Bernardino National Forest	San Bernardino, CA	Many existing projects	Entire corridor	GIS Analysis: existing infrastructure in the corridor.	The corridor is currently fairly well occupied. There is, however, enough space within the corridor to parallel existing uses (power lines and pipelines), install re-conductor to double circuits, and upgrade existing infrastructure.
108-267 .002	BLM	Barstow FO, CA	San Bernardino, CA	Many existing projects	MP 11 to MP 12.5	GIS Analysis: existing infrastructure in the corridor.	The corridor is currently fairly well occupied. There is, however, enough space within the corridor to parallel existing uses (power lines and pipelines), install re-conductor to double circuits, and upgrade existing infrastructure.
<b>Transmission and Pipeline Capacity Concern</b>							
108-267 .new2		San Bernardino National Forest and Barstow FO, CA	San Bernardino, CA	Possible need for new transmission	Not specified	Comment on corridor abstract: large amounts of new generation coming into the substation could trigger the need for a new 500-kV line between the SCE substation north of the corridor and a SCE substation south of the corridor in a substation in either Etiwanda or Ontario.	The Agencies do not propose or develop new transmission line projects; however, there is enough space within the corridor for project proponents to parallel existing uses (power lines and pipelines).
<b>LAND MANAGEMENT RESPONSIBILITIES AND ENVIRONMENTAL CONCERNS</b>							
<b>Cultural Resources</b>							
108-267 .new3	USFS	San Bernardino National Forest	San Bernardino, CA	Serrano Ancestral Territory	Entire corridor	Comment on corridor abstract: Several Section 368 corridors (or portions of them) exist within Serrano ancestral territory and, thus, are of interest to the San Manuel Band of Mission Indians.	The Agencies would consult with the San Manuel Band of Mission Indians, as well as other California tribes, as required for any proposed project in the corridor.

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ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis
<b>Ecology: Special Status Species</b>							
108-267 .004	USFS	San Bernardino National Forest	San Bernardino, CA	San Bernardino Merriam's Kangaroo Rat and Arroyo Southwestern Toad  Southwestern Willow Flycatcher and Least Bell's Vireo	MP 0 to MP 9.3	RFI: transmission should be expanded in consultation with USFWS to avoid adverse modification to designated critical habitat of San Bernardino Merriam's Kangaroo Rat and Arroyo Southwestern Toad.  USFS staff review: occupied and designated critical habitat.	There is no alternative corridor that would avoid special status species habitat in an area that contains existing infrastructure. Impacts on habitat and habitat connectivity could be avoided, minimized, or mitigated through activities identified and implemented in consultation with the USFWS under ESA Section 7. Analysis would be completed through the NEPA process case by case with a full range of alternatives.
108-267 .005	USFS	San Bernardino National Forest	San Bernardino, CA	Suitable habitat for the Desert Tortoise		USFS staff review.	This habitat occurs on the northern end of the corridor. Historical sightings of the Desert Tortoise have been recorded and its habitat is considered occupied as part of any environmental analysis for a project occurring in this area. Impacts on habitat and habitat connectivity could be avoided, minimized, or mitigated through activities identified and implemented in consultation with the USFWS under ESA Section 7. Analysis would be completed through the NEPA process case by case with a full range of alternatives.
108-267 .006	USFS	San Bernardino National Forest	San Bernardino, CA	Occupied and critical habitat for Slender-horned Spineflower		USFS staff review.	Impacts on habitat and habitat connectivity could be avoided, minimized, or mitigated through activities identified and implemented in consultation with the USFWS under ESA Section 7. Analysis would be completed through the NEPA process case by case with a full range of alternatives.

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ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis
<b>Hydrology: Surface Water</b>							
108-267 .007	USFS	San Bernardino National Forest	San Bernardino, CA	Intermittent stream: Lytle Creek	MP 0 to MP 3.3	GIS Analysis.	Utilities can either span or be buried under intermittent streams. Impacts would be analyzed and mitigated as part of the required project-specific environmental review.
<b>Lands and Realty: Rights-of-Way and General Land Use</b>							
108-267 .008	BLM and USFS	San Bernardino National Forest and Barstow FO, CA	San Bernardino, CA	BLM jurisdiction	Scattered over full corridor extent	GIS Analysis: 282 acres were originally designated as part of this corridor but are no longer on federal land, according to the 5/12/2015 version of BLM Surface Management Agency data.	This concern would be analyzed and mitigated as part of the project-specific environmental review required under NEPA and other federal law. Consider adjusting designation in future land use plans/forest plans to current jurisdiction, possibly through an amendment during future project implementation.
<b>Lands and Realty: Military and Civilian Aviation</b>							
108-267 .009	USFS	San Bernardino National Forest	San Bernardino, CA	Military Training Route – Visual Route	MP 8.5 to MP 12.5	GIS Analysis.	Adherence to IOP 1 under Project Planning in the WWEC PEIS RODs regarding coordination with DoD would be required.
<b>Lands and Realty: Transportation</b>							
108-267 .010	USFS	San Bernardino National Forest	San Bernardino, CA	I-15	Runs adjacent to and intersects entire corridor	GIS Analysis.	Consistent with BLM ROW regulations; notification to adjacent ROW holders would be provided.
108-267 .011	USFS	San Bernardino National Forest	San Bernardino, CA	State Highway 138	MP 8.5 to MP 12.5	GIS Analysis.	Consistent with BLM ROW regulations; notification to adjacent ROW holders would be provided.
108-267 .012	USFS	San Bernardino National Forest	San Bernardino, CA	Railroad	Entire corridor	GIS Analysis.	Consistent with BLM ROW regulations; notification to adjacent ROW holders would be provided.

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<b><i>Specially Designated Areas</i></b>							
108-267 .013	USFS	San Bernardino National Forest	San Bernardino, CA	Pacific Crest National Scenic Trail	MP 7 to MP 9.2	<p>GIS Analysis.</p> <p>Comment on corridor abstract: 11 miles of the Pacific Crest NST will experience visual and aural impacts within the proposed corridor. The corridor appears too wide and could impact too many miles of the Pacific Crest NST.</p>	<p>Impacts on the Pacific Crest NST from future proposals would be analyzed and avoided, minimized, or mitigated case by case as part of the environmental review required under NEPA and other Federal laws. The Agencies have identified the need for an IOP to address development in Section 368 energy corridors while protecting values in congressionally designated National Scenic and Historic Trails. The DRECP has specific CMAs to address impacts on the Pacific Crest NST, OSNHT, and other resources present in the California Desert Conservation Area during project implementation. For transmission corridors that intersect or parallel National Trail System components, or trails under study for potential designation, the National Trail administering agency or trail administrator; regional or State program leader; and a primary National Trail partner organization representative (in accordance with applicable law) will be advised and invited to attend pre-authorization or pre-application meetings, as applicable. Agencies may not permit proposed uses along congressionally designated National Scenic or Historic Trails [NTSA Sec. 5(a)], which will substantially interfere with the nature and purposes of the trail, and shall make efforts, to the extent</p>

## REGION 1 – CORRIDOR 108-267 – ANALYSIS TABLE

ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis
							practicable, to avoid authorizing activities that are incompatible with the purposes for which such trails were established [NTSA Sec. 7(c)]. While easements and rights-of-way may be granted, conditions shall be related to the policy and purposes of the National Trails Systems Act [NTSA Sec. 9(a)]. The information in the DRECP would be used in any project implementation.
108-267 .014	USFS	San Bernardino National Forest	San Bernardino, CA	Rim of the World Scenic Byway	MP 10.2 to MP 12.5	GIS Analysis.	Impacts would be analyzed and mitigated as part of the project-specific environmental review required under NEPA and other Federal laws.
108-267 .015	USFS	San Bernardino National Forest	San Bernardino, CA	Pacific Crest Trail SRMA	Adjacent to and intersects north end of corridor, MP 12.5	GIS Analysis.	Impacts would be analyzed and mitigated as part of the project-specific environmental review required under NEPA and other Federal laws.
108-267 .016	USFS	San Bernardino National Forest	San Bernardino, CA	Inventoried Roadless Areas	Adjacent to east and west sides of entire corridor	GIS Analysis.	Corridor is not designated in the roadless areas, but proposed development would not be able to deviate from the corridor in these areas. Impacts would be analyzed and mitigated as part of the environmental review required under NEPA and other Federal laws.
108-267 .017	USFS	San Bernardino National Forest	San Bernardino, CA	Old Spanish National Historic Trail (OSNHT)	Entire corridor	GIS analysis. Comment on corridor abstract: this section of the OSNHT is considered a High Potential Segment. Confine impacts to the I-15 and Highway 138 road	The Agencies have identified the need for an IOP to address development in Section 368 energy corridors while protecting values in Congressionally designated NSTs and NHTs. The DRECP has specific CMAs to address impacts on the Pacific Crest NST, OSNHT, and other resources

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						corridors and consider narrowing corridor width.	present in the California Desert Conservation Area during project implementation. For transmission corridors that intersect or parallel National Trail System components, or trails under study for potential designation, the National Trail administering agency or trail administrator; regional or State program leader; and a primary National Trail partner organization representative (in accordance with applicable law) will be advised and invited to attend pre-authorization or pre-application meetings, as applicable. Agencies may not permit proposed uses along congressionally designated National Scenic or Historic Trails [NTSA Sec. 5(a)], which will substantially interfere with the nature and purposes of the trail, and shall make efforts, to the extent practicable, to avoid authorizing activities that are incompatible with the purposes for which such trails were established [NTSA Sec. 7(c)]. While easements and rights-of-way may be granted, conditions shall be related to the policy and purposes of the National Trails Systems Act [NTSA Sec. 9(a)]. The information in the DRECP would be used in any project implementation.
<b>Visual Resources</b>							
108-267 .new4	BLM	Barstow FO	San Bernardino, CA	VRM Class II	MP 11.8 to MP 12.5	GIS Analysis. VRM Class II area is adjacent to corridor.	The corridor does not intersect VRM Class II areas. Impacts would be

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							analyzed and mitigated as part of the project-specific environmental review required under NEPA and other Federal laws.
<b>Other Issues</b>							
108-267 .new5				Corridor capacity, width	Not specified	Input was provided clarifying existing capacity and potential for new capacity as well as providing corrections to the corridor abstract. One stakeholder commented that corridor width needs to be clarified.	The input provided by stakeholders regarding existing capacity and potential for future capacity has been added to the corridor abstracts and has been considered in the Agencies' analysis. The corridor width is described in the corridor abstract and in the corridor overview section of this corridor summary. While the Agencies cannot predict the number of additional projects that could potentially be sited within Section 368 energy corridors, they have determined that there is sufficient width for parallel existing uses (power lines and pipelines), reconductor to double circuits, and to upgrade existing infrastructure.

Abbreviations: BLM = Bureau of Land Management; CFR = Code of Federal Regulations; CMA = Conservation and Management Actions; DoD = Department of Defense; DRECP = Desert Renewable Energy Conservation Plan; ESA = Endangered Species Act; FO = Field Office; GIS = geographic information system; IOP = Interagency Operating Procedure; LADWP = Los Angeles Department of Water and Power; MP = milepost; NEPA = National Environmental Policy Act; NHT = National Historic Trail; NST = National Scenic Trail; OSNHT = Old Spanish National Historic Trail; PEIS = Programmatic Environmental Impact Statement; RFI = Request for Information; ROD = Record of Decision; ROW = right-of-way; SCE = Southern California Edison Company; SRMA = Special Recreation Management Area; USFS = Forest Service; USFWS = U.S. Fish and Wildlife Service; WWEC = West-wide Energy Corridor.