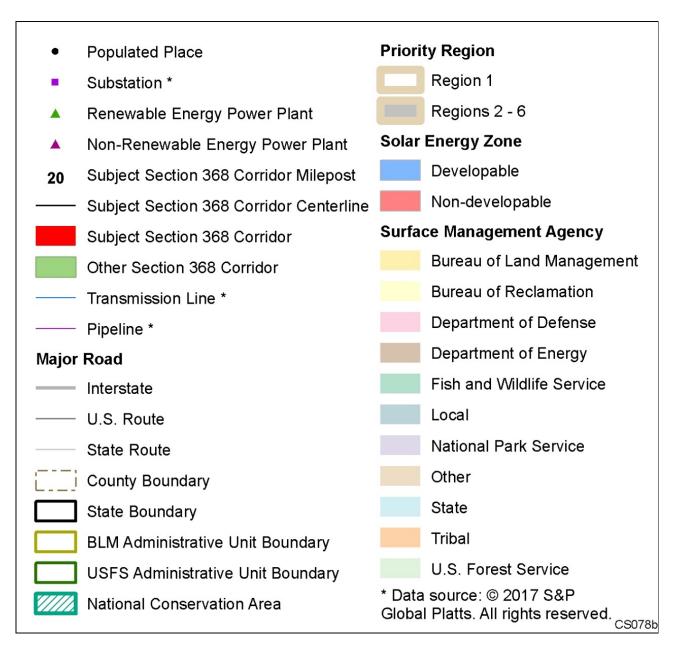
Daggett – Bullhead City

Introduction

Corridor 27-41 (Figures 1 and 2) extends generally east from the junction of Corridors 27-225 and 27-266 near Daggett, CA, north of Twentynine Palms Marine Corps Base and south of Mojave National Preserve, to the California-Nevada state line, west of Bullhead City, NV, where Corridors 41-46 and 41-47 converge. Federally designated portions of this corridor are entirely on BLM-administered land, with a 10,560-ft width throughout, consistent with existing plans, except for a 3,500-ft-wide segment from MP 138.8 to MP 148.2. This portion of the corridor was not previously designated and, as a new section, has the default 3500ft width used in the WWEC PEIS. Corridor 27-41 is designated as multimodal and can therefore accommodate both electrical transmission and pipeline projects. The corridor spans a 148.2-mile distance, with 117.6 miles designated on BLM-administered lands. The corridor's area is 138,631 acres or 216.6 square miles. This corridor is entirely in San Bernardino County, California under the jurisdiction of the BLM Barstow and Needles Field Offices in California. It is entirely in Region 1.



Figure 1. Corridor 27-41



Key

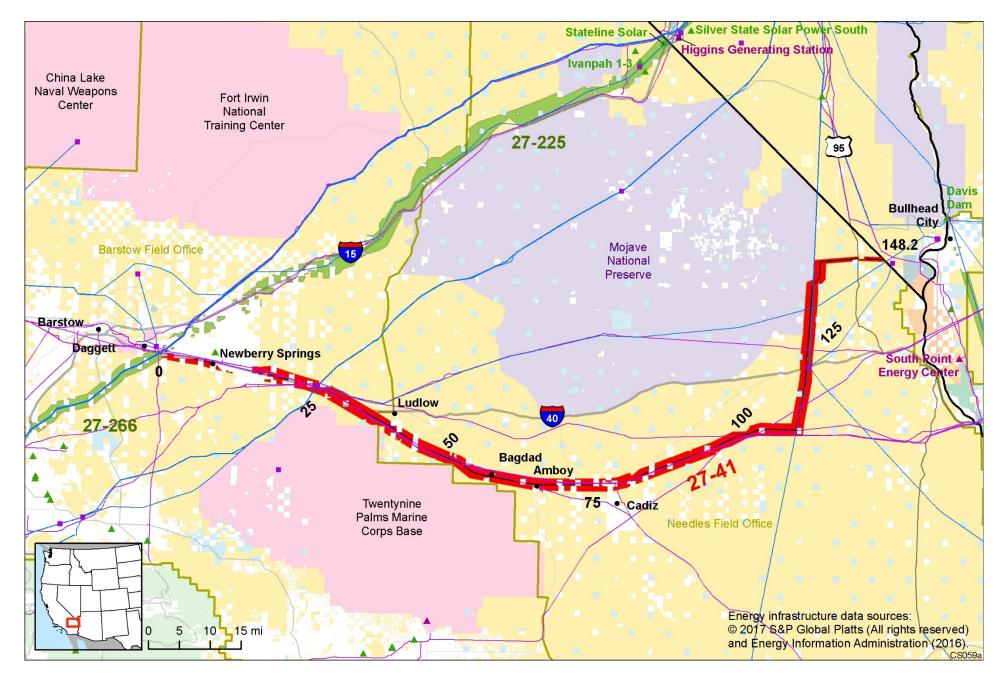


Figure 2. Corridor 27-41, Including Existing Energy Infrastructure

Corridor Rationale

During scoping for the WWEC PEIS, routes generally following this corridor were suggested by the American Wind Energy Association; New Mexico Energy, Minerals, and Natural Resources Department; Pacific Gas and Electric Company; and the Western Utility Group. The 10,560-ft wide portion of the corridor was designated in resource management plans prior to being designated as a Section 368 corridor. The corridor was designated as a Section 368 energy corridor to support existing and future infrastructure and to provide future connectivity to existing energy infrastructure near Laughlin, NV, while avoiding the Havasu NWR.

Existing Infrastructure: From MP 0 to 110.0, the corridor follows multiple natural gas pipelines, including Mojave Pipeline Operating Company, Pacific Gas and Electric Company, SCE, and El Paso Natural Gas Company. It then turns north, following Metropolitan Water District (230-kV) and Imperial Irrigation District (69-kV) transmission lines from MP 110.0 to MP 137.9, then east to the California-Nevada border. It also follows I-40 from MP 0 to 36.4 and is crossed by several other transmission lines and pipelines.

Potential for Future Development: Previously proposed and aborted projects near this corridor include a two new 500-kV lines and one 500-kV substation upgrade. During interviews for the Corridor Study, the Barstow FO indicated there may be interest for one or more new projects in this corridor, and the Needles FO indicated several existing ROWs are in the corridor with no applications pending. No planned projects are shown in the Platts transmission line data using the corridor, but one diagrammatic route crosses it at MP 32.3, described as a planned 1,000-kV "inland line" with an undetermined location. Two solar power plants are near the western end of the corridor. SCE indicated that there is 3,041 MW of CAISO-queued generation nearby, or that could use the corridor. SCE indicated that the corridor could help support interconnection for out-of-state projects (Southwest Intertie Project, TransWest Express, and Zephyr), but upgrades would likely be needed and out-of-state projects would likely trigger large and expensive transmission facilities in this corridor. This corridor could provide a new diverse transmission ROW between two SCE existing substations. A portion of the corridor is near the RETI 2.0 Victorville/Barstow TAFA; a portion of the corridor is within and/or adjacent to a DFA, and another portion is about 1.5 miles north of a large DFA block, both of which are designated for all energy development technologies. The DFAs and TAFA provide opportunity for the corridor to accommodate transmission tied to renewable energy development.

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, including updated information made available in the ROD for the DRECP released later in September. A GIS view identifying high-, medium-, and low-conflict areas consistent with the definition of screening criteria described in 43 CFR 2804.35(a)-(c) has also been added to the mapping tool. A complete description of the mapping tool; a description of the high-, medium-, and low-conflict areas; and a list of the GIS data sources are included in the corridor 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 WWEC purpose, appropriate and acceptable uses, capacity opportunities, alignment and spacing, military aviation, ecology, lands with wilderness characteristics, specially designated areas, and visual resources.

Revision, deletions, and 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 revisions, deletions, or additions to the corridors. There were stakeholder recommendations in the 2014 RFI to reroute this corridor to avoid siting new facilities in TCAs without existing transmission and to realign the corridor with I-40 to avoid critical habitat. Suggestions for corridor revisions, deletions, or additions in response to the release of the draft abstracts included the following: delete corridor to avoid impacts on desert tortoise habitat, ACECs, cultural sites along Route 66, and national monuments; take into account many corridor revision suggestions to avoid impacts on desert tortoise habitat; realign corridor to follow existing routes of travel, including I-40, Route 66, and California State Route 95; and reduce corridor width to avoid impacts on ACECs, desert tortoise, and historic resources. In addition, one stakeholder suggested extension of the corridor to include substations across the state line into Nevada. Although desert tortoise habitat and a wildlife linkage are present in the corridor, mapping of potential conflict areas indicates there is no previously disturbed alternate route in the vicinity of the corridor 27-41. The Agencies should consider a corridor extension to connect Corridor 27-41 in California to Corridors 41-46 and 41-47 in Arizona. The most feasible alternative appears to be through southern Nevada near MP 148 (for approximately 12 miles). Jurisdictional issues and sensitive resources may preclude a viable option; however, existing infrastructure is present along several potential east-west pathways.

Corridor Analysis

The corridor analysis table below identifies concerns affecting Corridor 27-41, 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
 □ Cultural 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

Section 368 Energy Corridor Regional Reviews - Region 1

Corridor					RIDOR 27-41 – ANAI	•	March 2013
ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis
		OPPORTUNITIES					
WWEC P		T	T	1	T	I	1
27-41 .001	BLM	Barstow FO, Needles FO	San Bernardino County, CA	Renewable energy	Not specified	RFI: renewable energy needs to be transmitted to the southern California market; however, an alternative east-west corridor alignment would be preferable to the one chosen via the WWEC process. Eliminate the current Route 66 alignment and replace it with the east-west alignment of the existing corridor in the land-use plan to the north that largely parallels Interstate 40. This alignment is preferable to the existing Route 66 corridor, as it avoids much of the route, except for the section between Newberry Springs and Ludlow, and the important Desert tortoise habitat east of the Mojave Preserve (TWS and Partners).	BLM will consider additional corridor options through the Regional Review. Standard procedures for processing applications include developing alternate routes for consideration and analysis.
27-41 .new1	BLM	Barstow FO	San Bernardino County, CA	RETI 2.0 Victorville/Barstow TAFA	Not specified	Comment on corridor abstract: a portion of the corridor is near a RETI 2.0 TAFA.	The TAFA provides an opportunity for the corridor to accommodate transmission tied to renewable energy development.
27-41 .new2	BLM	Needles FO	San Bernardino County, CA	DLA, i.e., DRECP DFA: variance process lands	MP 64.2 to MP 77.3	GIS Analysis: A portion of the corridor is 1.5 miles or more north of a large DRECP- established DFA.	The DFA provides an opportunity for the corridor to accommodate transmission tied to renewable energy development.
7-41 .new3	BLM	Barstow FO	San Bernardino County, CA	DLA, i.e., DRECP DFA: all technologies	MP 0 to MP 2.2, MP 8.1 to MP 8.7, MP 9.2 to MP 9.8, MP 15.1, MP 18.2	GIS Analysis.	The DFA provides an opportunity for the corridor to accommodate transmission tied to renewable energy development.

Section 368 Energy Corridor Regional Reviews - Region 1

				REGION 1 – COR	RIDOR 27-41 – ANAI	LYSIS TABLE	
		Agency		Primary Concern/	Corridor Location (by Milepost		
ID	Agency	Jurisdiction	County	Opportunity	[MP])	Source: Context	Agency Review and Analysis
	-	eline Capacity O	-		Ι	1	
7-41 .new4	BLM	Las Vegas FO	Clark County, NV	Extend corridor	East of MP 148	BLM should consider extending Corridor 27-41 approximately 10 miles roughly east-northeast to include SCE's substation just outside Laughlin to allow for new transmission ROW between existing substations.	Future land-use planning should consider extending Corridor 27-41 from east California through southern Nevada at MP 148.
	PLANNING C						
		sical Barrier					
27-41 .003	BLM	Needles FO	San Bernardino County	Connectivity	After final MP 148.19	BLM CA State Office review of GIS and portal data: No connectivity is apparent after state line to AZ corridors.	Corridor stops at the California state line. The two nearest corridors are on the other side of Bullhead City from this corridor. Future RMPs could consider a new corridor or corridors to achieve connectivity on public land between Bullhead City and the California state line.
Corridor	Alignment d	and Spacing				•	
27-41 .004	BLM	Needles FO	San Bernardino, CA	Existing pipelines	MP 53.6 to MP 67.9	GIS Analysis: pipelines intersect corridor at angles.	Proposed project siting and collocation alternatives to address impacts would be analyzed as part of the project-specific environmental analysis required under NEPA and other Federal laws.
27-41 .005	BLM	Needles FO	San Bernardino, CA	Existing pipelines	MP 97.7 to MP 106.4	GIS Analysis: pipelines intersect corridor at angles.	Proposed project siting and collocation alternatives to address impacts would be analyzed as part of the project-specific environmental analysis required under NEPA and other Federal laws.
27-41 .006	BLM	Needles FO	San Bernardino, CA	Existing transmission lines	MP 116.2 to MP 120.8	GIS Analysis: transmission lines follow and intersect corridor at angles.	Proposed project siting and collocation alternatives to address impacts would be analyzed as part of the project-specific environmental

Section 368 Energy Corridor Regional Reviews - Region 1

				REGION 1 – COF	RRIDOR 27-41 – ANAI	LYSIS TABLE	
ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis analysis required under NEPA and
27-41 .002	BLM	Barstow FO	San Bernardino County, CA	Multiple pipelines and transmission lines	MP 15.2 to MP 30.2	GIS Analysis: multiple pipelines and transmission lines follow and cross the corridor.	other Federal laws.The corridor is 2 miles wide and has capacity for future projects.Proposed project siting and collocation alternatives to address impacts would be analyzed as part of the project-specific environmental analysis required under NEPA and other Federal laws.The number and colocation of potential additional pipelines and transmission lines would depend on such factors as location, voltage, and safety requirements. Installation and operation of high-voltage electric transmission lines and pipelines in the same corridor must adhere to established colocation protocol.
27-41 .new4	BLM	Barstow FO, Needles FO	San Bernardino County, CA	Pipeline	MP 0 to MP 100	Comment on abstract: provide background analyses, including potential impacts of pipeline development, that helped identify the pipelines that currently follow or intersect the corridor. Mixed use of the corridor for pipelines and transmission may increase cumulative impacts and result in significant safety and environmental risks.	The environmental analysis documents used to implement specific existing projects are a matter of public record and can be requested at any BLM office. Multiple use is part of BLM's mission. The safety and environmental risks of collocating projects are analyzed during project implementation. Proposed project siting and collocation alternatives to address impacts would be analyzed as part of the project-specific environmental analysis required under NEPA and other Federal laws.

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				57	RIDOR 27-41 – ANAI		
		Agency		Primary Concern/	Corridor Location (by Milepost		
ID	Agency	Jurisdiction	County	Opportunity	[MP])	Source: Context	Agency Review and Analysis
LAND M	ANAGEMENT	RESPONSIBILITI	ES AND ENVIRO	NMENTAL CONCERNS	•		
Cultural	Resources						
27-41 .007	BLM	Barstow FO, Needles FO	San Bernardino, CA	Important historical, cultural and natural values	MP 0 to MP 148, MP 125 to MP 148.2	RFI: due to the important historical, cultural, and natural values in this region (along Route 66), this corridor needs to be eliminated and another east-west alternative selected, if feasible.	Impacts would be analyzed and mitigated as part of the project- specific environmental analysis required under the NHPA and NEPA. Consider additional corridor options during regional review.
27-41 .new	BLM	Barstow FO, Needles FO	San Bernardino, CA	Serrano Ancestral Territory	Entire corridor	Comment on corridor abstract: corridor exists within Serrano ancestral territory and is 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.
Ecology:	Special State	us Animal Species	5				
27-41 .008	BLM	Barstow FO, Needles FOs	San Bernardino, CA	Desert Tortoise critical habitat; TCAs; Priority 1 and 2 Habitat; and connectivity habitat (least-cost corridor for tortoise connectivity [USFWS 2012])	Critical Habitat: MP 0 to MP 22.3, MP 81 to MP 148.2 TCAs: MP 0 to MP 9.3, MP 11.3 to MP 12.5, MP 15.5 to MP 22.4, MP 80.3 to MP 148.2 Priority 1 and 2 habitat: MP 0 to MP 5.2 Connectivity habitat: MP 0 to MP 5, MP 14.8 to MP 44.2.	RFI: desert tortoise critical habitat (the Piute-Fenner Critical Habitat Unit and the corresponding BLM ACEC for tortoise conservation). "It would be best to have this proposed corridor alignment removed, and especially the segment to the east that appears to cut across the Piute Valley, an area known for high density of Desert tortoise." Reroute to avoid siting new facilities in TCAs without existing transmission; minimize additional transmission siting in these areas; and realign corridor with I- 40 to avoid critical habitat. Reduce corridor width from 10,560 ft to no more than 3,500 ft. If there are	While desert tortoise habitat and a wildlife linkage are present throughout the corridor, there is no alternative route in the vicinity of the corridor that would avoid these areas. The DRECP has specific CMAs to address impacts on desert tortoise. The information in the DRECP would be used in any project implementation. Impacts on habitat and habitat connectivity may be avoided, minimized, or mitigated through activities identified and implemented in consultation with the USFWS under ESA Section 7. Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws.

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		1	1	REGION 1 – COF	RRIDOR 27-41 – ANA	LYSIS TABLE	
					Corridor Location		
		Agency		Primary Concern/	(by Milepost		
ID	Agency	Jurisdiction	County	Opportunity	[MP])	Source: Context	Agency Review and Analysis
						facilities in place in areas	
						designated as critical habitat for	
						Agassiz's Desert Tortoise (that	
						crosses east-west through the	
						Piute Valley), reduce the width	
						to 1,320 ft.	
						Reroute to the north of I-40 to	
						avoid adverse modification of	
						critical habitat. Do not	
						construct new transmission	
						lines or pipelines within a 27-	
						mile reach located north and	
						south of I-40 (MP 110.0 to MP	
						137.9).	
						Address concern for the eastern	
						approximate 56-mile portion of	
						the corridor that departs from	
						Route 66 at approximately	
						MP 80 and proceeds cross-	
						country to the east, bisecting	
						the Chemehuevi Desert	
						Tortoise CHU located south of I-	
						40, and then heads north to	
						MP 138 bisecting the Piute-	
						Eldorado Desert Tortoise CHU	
						located north of I-40.	
						Realign corridor to follow	
						existing routes of travel,	
						including I-40, Route 66, and CA	
						State Route 95.	
						Keep Corridor 27-41 in its entire	
						length along I-40 to CA State	
						Route 95, and then proceed	
						northward to the current	
						proposed location at MP 148.	
						Restrict the approximate 33-	

Section 368 Energy Corridor Regional Reviews - Region 1

				REGION 1 – COR	RIDOR 27-41 – ANAI	YSIS TABLE	
					Corridor Location		
		Agency		Primary Concern/	(by Milepost		
ID	Agency	Jurisdiction	County	Opportunity	[MP])	Source: Context	Agency Review and Analysis
						mile length of this new corridor,	
						coinciding with the southern	
						boundary of the Mojave	
						National Preserve to the	
						southern side of I-40.	
1						Keep Corridor 27-41 along	
						Route 66 from MP 75, through	
						Essex, to I-40; then follow I-40	
1						east to CA State Route 95;	
						follow this route north to the	
						junction at MP 143 and then	
						proceed east to MP 148.	
						Delete corridor.	
						GIS Analysis: critical habitat is in	
						undesignated gaps (MP 0.0 to	
						MP 22.3) and intersects the	
						corridor (MP 81.0 to 148.2)	
						where corridor makes an	
						abrupt northward turn from its	
						east-west trajectory near State	
						Route 66 (east of Essex), jogs	
						along the southeastern border	
						of the Mojave National	
						Preserve, and then turns	
						eastward into Nevada.	
Ecology:	Wildlife	1	1		1	1	
27-41				Southern California	Not specified	RFI: Corridor intersects a	Impacts on habitat and habitat
.new5				Wildlands Linkage		Southern California Wildlands	connectivity would be analyzed and
						Linkage. Reroute to avoid "very	mitigated as part of the project-
						high" risk to permeability. Work	specific environmental review
						closely with state and federal	required under NEPA and other
						wildlife and science agencies to	Federal laws.
						ensure that connectivity is	
						maintained.	

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				REGION 1 – COR	RIDOR 27-41 – ANAI	YSIS TABLE	
		Agency		Primary Concern/	Corridor Location (by Milepost		
ID	Agency	Jurisdiction	County	Opportunity	[MP])	Source: Context	Agency Review and Analysis
-	gy: Surface V		1 -	I			
27-41 .009	BLM	Needles FO	San Bernardino, CA	Intermittent stream	MP 88.1	GIS Analysis.	Linear ROWs can either span intermittent streams or be buried underneath them. Impacts would be analyzed and mitigated as part of the project-specific environmental analysis required under NEPA and other Federal laws.
		hts-of-Way and					
27-41 .010	BLM	Needles FO	San Bernardino, CA	Land ownership	Scattered through corridor, but large parcel at MP 75.2 to MP 148.3	GIS Analysis: 641 acres, which were originally designated as part of this corridor, are on private land according to the 5/12/15 version of Surface Management Agency data.	BLM would consider adjusting corridor designation in future land- use plans to current jurisdiction, possibly through a plan amendment during future project implementation.
27-41 .011	BLM	Barstow FO	San Bernardino, CA	Land ownership	MP 4.5 to MP 6.3	GIS Analysis: 71 acres which were originally designated as part of this corridor are on state land according to the 5/12/15 version of Surface Management Agency data.	BLM would consider adjusting corridor designation in future land- use plans to current jurisdiction, possibly through a plan amendment during future project implementation.
Lands ar	nd Realty: Mi	litary and Civilia	n Aviation				
27-41 .012	BLM	Needles FO	San Bernardino. CA	Camino Airstrip	MP 119.5 to MP 119.8	GIS Analysis: Camino Airstrip intersects the corridor.	Impacts would be analyzed and mitigated as part of the project- specific environmental analysis required under NEPA and other Federal laws.
27-41 .013	BLM	Barstow FO, Needles FO	San Bernardino, CA	Military Training Route – Visual Route	MP 11 to MP 16, MP 101 to MP 107, MP 114 to MP 121, MP 133 to MP 137	GIS Analysis. Comment on abstract: military training route (VR-1265) with floor of 200-ft AGL. Potential for an obstruction in airspace used for high-speed, low- altitude military aircraft operations, which presents a potential safety risk.	DoD recommends structures remain below 200-ft AGL. Taller structures will require further analysis for operational and safety impacts. Adherence to IOP 1 under Project Planning in the WWEC PEIS Records of Decision regarding coordination with DoD would be required.

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				REGION 1 - COF	RRIDOR 27-41 – ANA	LYSIS TABLE	
					Corridor Location		
		Agency		Primary Concern/	(by Milepost		
ID	Agency	Jurisdiction	County	Opportunity	[MP])	Source: Context	Agency Review and Analysis
27-41	BLM	Barstow FO,	San	Military Training	MP 13 to MP 29,	GIS Analysis.	DoD recommends structures remain
.014		Needles FO	Bernardino,	Route – Instrument	MP 108 to MP 128,	Comment on corridor abstract:	below 200-ft AGL. Taller structures
			CA	Route	MP 135 to MP 148	military training route (IR-212)	will require further analysis for
						(IR-217) with floor of 200-ft	operational and safety impacts.
						AGL. Potential for an	Adherence to IOP 1 under Project
						obstruction in airspace used for	Planning in the WWEC PEIS Records
						high-speed, low-altitude	of Decision regarding coordination
						military aircraft operations,	with DoD would be required.
						which presents a potential safety risk.	
27-41	BLM	Barstow FO,	San	Military Training	MP 74 to MP 78,	Comment on corridor abstract:	DoD recommends structures remain
.new6		Needles FO	Bernardino,	Route – Instrument	MP 79 to MP 83,	military training route (IR-250)	below existing structures. Structures
			CA	Route	MP 84 to MP 93,	(IR-252) with floor of	taller than 200-ft AGL will require
					MP 94 to MP 99	"SURFACE." Potential for an	further analysis for operational and
						obstruction in airspace used for	safety impacts. Adherence to IOP 1
						high-speed, low-altitude	under Project Planning in the WWEC
						military aircraft operations,	PEIS Records of Decision regarding
						which presents a potential	coordination with DoD would be
07.44				a at 11		safety risk.	required.
27-41	BLM	Barstow FO,	San	Military Training	MP 38 to MP 51	Comment on corridor abstract:	DoD recommends structures remain
.new7		Needles FO	Bernardino, CA	Route – Instrument Route		FAA designated Special Use Airspace (R-2501N) with floor of	below existing structures. Structures taller than 200 ft AGL will require
			CA	Roule		"SURFACE." Potential for an	further analysis for operational and
						obstruction in airspace used for	safety impacts. Adherence to IOP 1
						high-speed, low-altitude	under Project Planning in the WWEC
						military aircraft operations,	PEIS Records of Decision regarding
						which presents a potential	coordination with DoD would be
						safety risk.	required.
Lands a	nd Realty: Tr	ansportation	1		1		· · · · · · · · · · · · · · · · · · ·
27-41	BLM	Barstow FO,	San	Interstate 40	MP 0.0 to MP 36.2,	GIS Analysis.	Consistent with BLM ROW
.015		Needles FO	Bernardino,		MP 119.8 to		regulations, notification to adjacent
			CA		MP 120.4		ROW holders would be provided.
27-41	BLM	Needles FO	San	U.S. Highway 95	MP 144.0	GIS Analysis.	Consistent with BLM ROW
.016			Bernardino,				regulations, notification to adjacent
			CA				ROW holders would be provided.

Corridor 2	27-41			Section 368 Energy (Corridor Regional Rev	views - Region 1	March 2019
				REGION 1 – COR	RIDOR 27-41 – ANAI	LYSIS TABLE	
ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis
27-41 .017	BLM	Barstow FO, Needles FO	San Bernardino, CA	Railroad	MP 0 to MP 37.5, MP 50.7 to MP 67.5, MP 87.2 to MP 89.5, MP 125.3	GIS Analysis.	Consistent with BLM ROW regulations, notification to adjacent ROW holders would be provided.
	th Wildernes	ss Characteristics	I	I	Γ	1	
27-41 .new8				Citizen-inventoried lands with wilderness characteristics	MP 0 to MP 3	Comment on corridor abstract: area overlaps with citizen- inventoried lands with wilderness characteristics. Corridors should be excluded from the Newberry Mountains Additions unit. Identify lands with wilderness characteristics as a constraint and ensure that their recommendations for corridor revisions, deletions, additions and mitigation measures address them.	There are extensive CMAs for addressing wilderness characteristics during project implementation in the DRECP.
27-41 .new9				Citizen-inventoried lands with wilderness characteristics	MP 25 to MP 32, MP 32 to MP 40, and MP 32 to MP 50	Comment on corridor abstract: corridor should be excluded from the following lands with wilderness characteristics that is deemed inappropriate for transmission and pipeline development: Argos unit - 10,000 acres Ash Hill unit- 19,155 acres, and Ragtown unit (21,182 acres). Identify lands with wilderness characteristics as a constraint and ensure that their recommendations for corridor revisions, deletions, additions, and mitigation measures address them.	There are extensive CMAs for addressing wilderness characteristics during project implementation in the DRECP.

Со	rria	lor	27-4	41

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				REGION 1 - COR	RIDOR 27-41 – ANA	LYSIS TABLE	
					Corridor Location		
		Agency		Primary Concern/	(by Milepost		
ID	Agency	Jurisdiction	County	Opportunity	[MP])	Source: Context	Agency Review and Analysis
27-41 .new10	BLM	Barstow FO, Needles FO	San Bernardino, CA	DRECP Lands with Wilderness Characteristics	MP 2.2 to MP 6.2, MP 16.0 to MP 28.2, MP 83.3 to MP 89.9, MP 99.3 to MP 110.4, MP 119.3 to MP 130.5	GIS Analysis. Comment on corridor abstract: wilderness areas adjacent to or near Mojave National Preserve and the corridor: Bristol Mountains Wilderness, Trilobite Wilderness, Clipper Mountain Wilderness, Piute Mountains Wilderness, and Dead Mountains Wilderness, and the Mojave Wilderness within the Mojave Wilderness within the Mojave National Preserve. Consider the potential impacts on wilderness characteristics of these areas. A proposed 10,560-ft width and 3,500-ft- wide corridors will potentially allow development of multiple transmission corridors in this area, which is noted for the qualities of wilderness character, including being untrammeled, undeveloped, natural, and presenting an opportunity for solitude or primitive and unconfined recreation.	There are extensive CMAs for addressing wilderness characteristics during project implementation in the DRECP.
	Designated		I	1	1	1	1
27-41 .018	BLM	Needles FO	San Bernardino, CA	Piute Valley and Sacramento Mountains DRECP National Conservation Lands ¹	MP 134.4 to MP 148.2	GIS Analysis.	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws.
27-41 .new11	BLM	Barstow FO	San Bernardino, CA	Pinto Lucerne Valley and Eastern Slopes	MP 7.0 to MP 7.3, MP 8.0 to MP 9.4	GIS Analysis.	Impacts would be analyzed and mitigated as part of the project- specific environmental review

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				REGION 1 – COR	RIDOR 27-41 – ANAI	LYSIS TABLE	
15		Agency		Primary Concern/	Corridor Location (by Milepost		
ID	Agency	Jurisdiction	County	Opportunity	[MP])	Source: Context	Agency Review and Analysis
				DRECP National Conservation Lands ¹			required under NEPA and other Federal laws.
27-41 .new12	BLM	Barstow FO, Needles FO	San Bernardino, CA	South Mojave-Amboy DRECP National Conservation Lands ¹	MP 16.8 to MP 23.6, MP 26.2 to MP 43.1, MP 45.8 to MP 135.1	GIS Analysis.	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws.
27-41 .new13	BLM	Barstow FO	San Bernardino, CA	Mojave and Silurian Valley DRECP National Conservation Lands ¹	MP 0.1 to MP 8.2, MP 11.4 to MP 12.4, MP 16.0 to MP 19.1	GIS Analysis.	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws.
27-41 .019	BLM	Barstow FO, Needles FO	San Bernardino, CA	Wilderness Areas	MP 0.0 to MP 9.2, MP 70.2 to MP 83.8, MP 87.5 to MP 122.3, MP 137.8, MP 148.2	GIS Analysis: corridor is adjacent to several wilderness areas to the north and south (e.g., Newberry Mountains, Trilobite, Old Woman Mountains, Piute Mountains, Bigelow Cholla Garden, Mojave, Dead Mountains).	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws.
27-41 .020	BLM	Barstow FO	San Bernardino, CA	Dagget Ridge Monkey Flower ACEC	MP 0 to MP 0.1	GIS Analysis. Comment on corridor abstract: delete corridor because of impacts on ACECs.	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws. Energy corridors are specifically identified in the DRECP, especially where they overlap ACECs.
27-41 .021	BLM	Barstow FO	San Bernardino, CA	Ord-Rodman ACEC	MP 0 to MP 22.3	GIS Analysis. Comment on corridor abstract: eliminate the polygons located south of I-40 at the western end of the corridor, which coincides with the Ord-Rodman desert tortoise CHU.	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws. Energy corridors are specifically identified in the DRECP, especially where they overlap ACECs.

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		-		REGION 1 – COR	RIDOR 27-41 – ANAI	YSIS TABLE	
					Corridor Location		
		Agency		Primary Concern/	(by Milepost		
ID	Agency	Jurisdiction	County	Opportunity	[MP])	Source: Context	Agency Review and Analysis
						Delete corridor because of	
						impacts to ACECs.	
27-41	BLM	Barstow FO	San	Pisgah ACEC	MP 16.3 to	GIS Analysis.	Impacts would be analyzed and
.022			Bernardino,		MP 34.3, MP 26.3	Comment on corridor abstract:	mitigated as part of the project-
			CA		to MP 34.3	it was also designated through	specific environmental review
					MP 25.0 to MP 32.0	BLM's 2016 DRECP LUPA as a	required under NEPA and other
						unit of the CDNCL. Land-use	Federal laws.
						activities must be compatible	Disturbance caps are in place in this
						with the protection of	area to limit, offset, and address
						nationally significant values. A	ground disturbance to acceptable
						surface disturbance limit of	levels (or with acceptable mitigation)
						1.0 percent has been	to meet conservation goals in ACECs
						established for this ACEC	and other conservation allocations in
						through BLM's 2016 DRECP	the DRECP area. Disturbance cap
						LUPA.	thresholds (and whether the cap will
						Reduce corridor width to	be reached by the proposed action)
						conform to the location of	are determined at the time of new
						existing facilities and disturbed	project consideration and analysis
						areas in the Pisgah Research Natural Area ACEC.	(DRECP LUPA, Section II.2, p. 31,
						Delete corridor because of	BLM 2016). Energy corridors are specifically
							identified in the DRECP, especially
						impacts to ACECs.	where they overlap ACECs.
27-41	BLM	Barstow FO,	San	Mojave Trails	MP 27.0 to		The proclamation that establishes
.023	DLIVI	Needles FO	Bernardino,	National Monument	MP 148.2	GIS Analysis: reduce corridor width to conform to the	the monument does not preclude or
.025		Neeules FO	CA	(MTNM)	IVIF 140.2		interfere with the operation or
			CA			location of existing facilities and disturbed areas in the MTNM.	maintenance of existing utility and
						Delete corridor.	pipeline facilities. In addition, new
						Delete corridor.	facilities may be constructed within
							the monument, provided it is
							consistent with the care of the
							resources identified in the
							proclamation. This would be
							analyzed and mitigated as part of
							the project-specific environmental

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				REGION 1 – COI	RRIDOR 27-41 – ANAI	LYSIS TABLE	
ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis
U	Agency	Junsaiction	County			Source. context	review required under NEPA and other Federal laws.
27-41 .024	BLM	Needles FO	San Bernardino, CA	Amboy Crater ACEC	MP 62.8 to MP 63.8	GIS Analysis. Comment on corridor abstract: corridor is adjacent to Amboy Crater ACEC, which is located entirely within the MTNM. Surface disturbance cap is 1.0 percent. Consider the unusual varieties of plants and animals that are the subject of academic research into species adaptation supported by the unique geological formations consisting of lava flows and pockets of wind-blown sand. Reduce corridor width within the Amboy Crater ACEC from 10,560 ft to no more than 3,500 ft or to a width that conforms to the location of existing facilities. Delete corridor because of impacts to ACECs.	Corridor is not within the ACEC. Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws. Disturbance caps are in place in this area to limit/offset/address ground disturbance to acceptable levels (or with acceptable mitigation) to meet conservation goals in ACECs and other conservation allocations in the DRECP plan area. The corridor is not constrained, as long as the DRECP CMAs/disturbance caps, etc., are addressed/met in project implementation. Disturbance cap thresholds (and whether the cap will be reached or not by the proposed action) are determined at the time of new project consideration and analysis (DRECP LUPA Section II.2, p. 31).
27-41 .025	BLM	Needles FO	San Bernardino, CA	Amboy Crater National Natural Landmark	MP 80.3 to MP 120.5	GIS Analysis: corridor is adjacent to Amboy Crater National Natural Landmark.	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws.
27-41 .026	BLM	Needles FO	San Bernardino, CA	Chemehuevi ACEC		GIS Analysis. Comment on corridor abstract: appropriate multiple land uses are allowed, provided they are consistent with the management goals established	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws.

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				REGION 1 – COF	RIDOR 27-41 – ANAI	LYSIS TABLE	
ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis
	, Serre 1					to maintain nationally significant values. Any multiple uses that could conflict with management goals are to be prohibited. A surface disturbance limit of 1.0 percent has been adopted for this ACEC. Reduce corridor width to conform to the location of existing facilities and disturbed areas in the Chemehuevi ACEC. Delete corridor because of impacts to ACECs.	Energy corridors are specifically identified in the DRECP, especially where they overlap ACECs.
27-41 .027	BLM	Needles FO	San Bernardino, CA	Piute-Fenner ACEC	MP 20.0 to MP 148.1	GIS Analysis. Comment on corridor abstract: designated as a unit of the CDNCL in BLM's 2016 DRECP LUPA. Multiple uses are only to be allowed if they are consistent with the goals and objectives adopted to protect ACEC values. Proposed land uses that would impair these ACEC values are prohibited. The surface disturbance limit adopted for this ACEC through BLM's 2016 DRECP LUPA ranges from 0.5 to 1.0 percent. Delete corridor because of impacts to ACECs.	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws. Energy corridors are specifically identified in the DRECP, especially where they overlap ACECs.
27-41 .028	BLM	Needles FO	San Bernardino, CA	Mojave National Preserve	MP 125.4 to MP 137.8	GIS Analysis: corridor is located near the southern boundary and directly along portions of the eastern boundary of the Mojave National Preserve. Reconsider placement of the	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws.

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	-, 12			5,	RIDOR 27-41 – ANAI	•	March 2019
ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis
						corridor segment from MP 125 adjacent to the Mojave National Preserve boundary. Realign corridor to avoid encroaching into Mojave National Preserve. There was concern about visual impacts on the Mojave National Preserve. Delete corridor.	
27-41 .new14	BLM	Needles FO	San Bernardino, CA	Old Spanish National Historic Trail (OSNHT)	MP 138 to MP 141	Comment on corridor abstract: OSNHT is located within the corridor at the northeast end of the corridor. Conduct analysis to determine potential effect of additional infrastructure on the view-shed of the OSNHT.	The Agencies have identified the need for an IOP to address development in Section 368 energy corridors while protecting values in congressionally designated NHTs. 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 [National Trails System Act (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

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				REGION 1 – COI	RRIDOR 27-41 – ANAI	LYSIS TABLE	
ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis
27-41 .new15	BLM	Barstow FO, Needles FO	San Bernardino, CA	Bristol Mountains ACEC	[MP]) MP 32.8 to MP 63.0	GIS Analysis. Comment on corridor abstract: designated through the 2016 DRECP LUPA to protect public lands that form a broad habitat linkage between the Cady Mountains Wilderness Study Area, Pisgah ACEC, Bristol Mountains, Mojave National Preserve, and desert tortoise critical habitats in the western and eastern Mojave Desert. This area is also designated as a CDNCL unit. A surface disturbance limit of 0.5 to 1.0 percent has been adopted. Land-use activities that would adversely impact its nationally significant values are prohibited. Do not allow	Agency Review and Analysis 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)]. Energy corridors are specifically identified in the DRECP, especially where they overlap ACECs.
27-41 .new16	BLM	Needles FO	San Bernardino, CA	Dead Mountains ACEC	MP 148.1 to MP 148.2	activities that would impair wildlife habitat connectivity and movements. Delete corridor because of impacts to ACECs. GIS Analysis: delete corridor because of impacts to ACECs.	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws.

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				REGION 1 – COR	RIDOR 27-41 – ANAI	LYSIS TABLE	
ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis Energy corridors are specifically identified in the DRECP, especially where they overlap ACECs.
27-41 .new17	BLM	Needles FO	San Bernardino, CA	Ward Valley Extensive Recreation Management Areas	MP 98.9 to MP 120.1	GIS Analysis.	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws.
27-41 .new18	BLM	Needles FO	San Bernardino, CA	DRECP National Trails SRMA	MP 37.7 to MP 99.2, MP 119.9 to MP 148.2	GIS Analysis.	Impacts would be analyzed and mitigated as part of the project- specific environmental review required under NEPA and other Federal laws. 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 [National Trails System Act (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

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				REGION 1 – COR	RRIDOR 27-41 – ANAI	YSIS TABLE	
ID	Agency	Agency Jurisdiction	County	Primary Concern/ Opportunity	Corridor Location (by Milepost [MP])	Source: Context	Agency Review and Analysis
							policy and purposes of the National Trails Systems Act [NTSA Sec. 9(a)].
27-41 .new19				Route 66		RFI: corridor parallels Route 66 and is inconsistent with the BLM's Route 66 Management Plan. Reroute so that corridor is aligned with I-40 and the CA BLM's designated utility corridors per the CDCA plan. Realign corridor to avoid impacts on historic resources, like Route 66. Delete corridor.	The Agencies would need to review the Arizona Department of Transportation Route 66 Corridor Management Plan as part of project- specific environmental review.
Visual Re	sources	•		•			
27-41 .new20	BLM	Needles FO	San Bernardino, CA	VRM Class I	MP 79.3 to MP 79.6, MP 81.3 to MP 83.2, MP 99.6 to MP 102.4, MP 105.7 to MP 106.4, MP 112.7 to MP 120.4	GIS Analysis. VRM Class I areas are adjacent to corridor.	The corridor does not intersect VRM Class I or II areas. Impacts would be analyzed and mitigated as part of the project-specific environmental review required under NEPA and other Federal laws.
27-41 .029	BLM	Barstow FO, Needles FO	San Bernardino, CA	VRM Class II	MP 18.9 to MP 19.6, MP 26.8 to MP 29.4, MP 33.8 to MP 34.1, MP 35.8 to MP 36.8, MP 51.2 to MP 95.6, MP 98.5 to MP 108.7, MP 109.9, MP 134.7 to MP 138.9	GIS Analysis. VRM Class II areas are adjacent to corridor.	

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REGION 1 – CORRIDOR 27-41 – ANALYSIS TABLE									
		Agency		Primary Concern/	Corridor Location (by Milepost				
ID	Agency	Jurisdiction	County	Opportunity	[MP])	Source: Context	Agency Review and Analysis		
27-41 .new21	BLM	Needles FO	San Bernardino, CA	VRM Class II	MP 138.9 to MP 148.1	GIS Analysis. Comment on corridor abstract: account for the value of the shared scenic landscapes and protect them for future generations. Scenic views, including those that extend beyond park boundaries, are an important component of the visitor experience to units of the National Park system. The breadth of these views is inspirational and iconic to the American spirit, and these views are often an important reason why people visit parks and trails. The resources associated with Mojave National Preserve are considered unique and are so identified in the California Desert Protection Act.	VRM class objectives are binding land use plan decisions. Transmission facilities must demonstrate that they will conform to the VRM decisions in the land use plan through a hard-look visual impacts analysis outlined in BLM VRM Contrast Rating Handbook H 8431-1 (VRM Manual Section (MS) 8400, BLM 1986). Minimizing visual contrast remains a requirement of applicable VRM class objectives even when the proposed action is in conformance with these VRM class objectives (VRM MS-8400). There are extensive CMAs for addressing VRM during project implementation in the DRECP. Evaluate options for moving the corridor away from the visually sensitive area or out of the sensitive		
27-41 .030	BLM	Barstow FO, Needles FO	San Bernardino, CA	VRM Class III	MP 0 to MP 3.1, MP 4.1 to MP 6.1, MP 7.2 to MP 8.1, MP 9.2 to MP 10.2, MP 11.2 to MP 12.0, MP 17.3 to MP 43.1, MP 46.0 to MP 138.8	GIS Analysis.	viewshed. Additional development in the corridor may not meet the VRM Class II or III management objectives.		
27-41 .new22	BLM	Barstow FO, Needles FO	San Bernardino, CA	VRM Class IV	MP 0 to MP 11.4, MP 15.2 to MP 18.3, MP 22.2 to MP 27.0,	GIS Analysis.	While VRM Class IV objectives allow for major modification to occur and management activities may dominate the view, minimizing visual		

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				REGION 1 - COR	RIDOR 27-41 – ANAI	YSIS TABLE	
		Agency		Primary Concern/	Corridor Location (by Milepost		
ID	Agency	Jurisdiction	County	Opportunity	[MP])	Source: Context	Agency Review and Analysis
					MP 37.6 to		contrast remains a requirement of
					MP 46.4, MP 129.7 to MP 132.6		these VRM class objectives. Ratings are required in areas of high sensitivity or high impact (VRM MS- 8400).
Other Iss	ues	T	1	T	T	1	1
27-41 .new23						One stakeholder requested that the Agencies update the maps and abstracts to portray existing and pending ROWs. There were concerns about the appropriate use of pipelines alongside transmission lines and about the Piute-Fenner ACEC and Chemehuevi ACEC. One stakeholder suggested that the Agencies not postpone revision or deletion of potential corridors until project-specific NEPA and NHPA analysis has been conducted. Last, input was provided clarifying existing capacity and potential for new capacity.	GIS layers have been added to the mapping tool that show locations of existing and planned infrastructure and these data have been incorporated into the maps. The colocation of pipelines and transmission lines is subject to safety requirements. Installation and operation of high-voltage electric transmission lines and pipelines in the same corridor must adhere to established colocation protocol. The regional review process is not a NEPA process; the corridor considerations resulting from the regional reviews will be used within subsequent NEPA scoping for land use planning or project-specific planning and will be analyzed with any newer information that may become available. The input provided by stakeholders regarding existing capacity and potential for
							existing capacity and potential future capacity has been adde the corridor abstracts and has considered in the Agencies' an

Abbreviations: ACEC = Area of Critical Environmental Concern; AGL = above ground level; BLM = Bureau of Land Management; CDCA = California Desert Conservation Area; CDNCL = California Desert National Conservation Lands; CFR = Code of Federal Regulations; CHU = critical habitat units; CMA = Conservation and Management Action; DFA = Development Focus Area; DLA = Designated Leasing Area; DoD = Department of Defense; DRECP = Desert Renewable Energy Conservation Plan; ESA = Endangered Species Act; FAA = Federal Aviation Administration; FO = Field Office; GIS = geographic information system; IOP = Interagency Operating Procedures; LUPA = Land Use Plan Amendment;

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MP = milepost; MTNM = Mojave Trails National Monument; NEPA = National Environmental Policy Act; OSNHT = Old Spanish National Historic Trail; PEIS = Programmatic Environmental Impact Statement; RETI = Renewable Energy Transmission Initiative; RFI = Request for Information; ROW = right-of-way; SCE = Southern California Edison Co.; SRMA = Sierra Resource Management Area; TAFA = transmission assessment focus area; TCA = Tortoise Conservation Area; USFWS = U.S. Fish and Wildlife Service; VRM = Visual Resource Management; WWEC = West-wide Energy Corridor.

¹ California Desert Conservation Area replaced by DRECP National Conservation Lands.