APPENDIX 4

*Visual Contrast Rating Sheets**

***** *No changes have been made to this appendix since publication in the Draft EIR/EIS.*

KOP-4 (a)
(ECO)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/14/2010
District	
Resource Area	
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
ECO - Substation & Loop-In	KOP-4 - I-8 Eastbound	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/Figure D.3-6A, -6B, -6C* EIR

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat / Rolling w/ Mts in Background
	LINE	Diffused Undulating
	COLOR	Tans & Muted Green / Grey & Brown
	TEXTURE	Generally uniform w/ Rock / Boulders
2. VEGETATION	FORM	Low shrubs - sparse to moderate Cover
	LINE	Diffused
	COLOR	Green / Grey
	TEXTURE	Dotted & stippled at distance
3. STRUCTURES	FORM	Vertical poles (utility) &
	LINE	Horizontal lines & bands for unpaved roads Parallel
	COLOR	Brown / dark
	TEXTURE	Solid / Substation light

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 1 (b)
(ECO)

1. LAND WATER	FORM	Minor landform changes - grading for substation
	LINE	No substantial change
	COLOR	no substantial change - see veg/access roads below (veg)
	TEXTURE	Smooth/Uniform
2. VEGETATION	FORM	geometric/linear forms created by grading for access
	LINE	Strong lines created by veg removal for access + substation
	COLOR	light tan soils to contrast with grey/green vegetation
	TEXTURE	fine to smooth
3. STRUCTURES	FORM	geometric, rectangular forms (substation)
	LINE	numerous vertical lines (substation equipment/transmission towers)
	COLOR	Light to medium grey
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	0	12	8	4	0	12	8	4	0
	Line (3x)	9	6	3	0	9	6	3	0	9	6	3	0
	Color (2x)	6	4	2	0	6	4	2	0	6	4	2	0
	Texture (1x)	3	2	1	0	3	2	1	0	3	2	1	0
TOTALS													

1a. Maximum element feature: Form - Substation (Scale)

b. Maximum feature contrast: Strong - Form & Line

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*): [signature] Date 4/14/2010

*Note: visual contrasts also apply to ECO substation (w/ Lands capping Plan)

KOP 1 (c)
(PCO)

Comments:

KOP: 1

Project Features Evaluated: PCO
PCO Substation

Simulations Available: yes

Simulations Not Available: Access roads not shown

Visual Factors Considered Important:
* Form - Scale of Facility (Strong)

(Imbedded PROJECT Elements Seen From KOP 1:
EST Wind Turbines (See KOP 1 Figure 0.3-6D)
EST 500kV Gen Tie Lattice Structures

Mitigation Measures yes
Impact Class - I

Evaluator's Names: Christine Keller
Tony Kovsic
Josh Saunders

KOP 1 (a)
(ESS)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/14/2010
District	
Resource Area	
Activity (program)	

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
ESS-(Wind Turbines) & Gen-Tie	KOP 1 - I-8 Eastbound	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/EIR Figure D.3-6A, -6D

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat/Rolling (Gen-Tie) / Mountainous (Wind Turbines)
	LINE	Diffused / Undulating / Jagged & Complex
	COLOR	Tans, Browns
	TEXTURE	Uniform (valley) Medium / Mts - Coarse to Smooth Rocks / Boulders
2. VEGETATION	FORM	low density desert shrubs - sparse to moderate cover
	LINE	Diffused
	COLOR	Green / Grey
	TEXTURE	Dotted / Stippled
3. STRUCTURES	FORM	Vertical Utility Poles
	LINE	Horizontal lines & band patterns (improved roads)
	COLOR	Brown / dark
	TEXTURE	Solid / High Saturation

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 1 (6)
(ESS)

1. LAND WATER	FORM	Minor land form changes - Access Rds to Wind Turbines may be graded
	LINE	Increased line elements if access roads are visible
	COLOR	No change - Increased Color contrast due to veg removal
	TEXTURE	Smooth / Linear
2. VEGETATION	FORM	geometric / linear forms / bands may be ~~the~~ Created by access
	LINE	strong lines) - access
	COLOR	light tan soils) to contrast w/ grey/green shrub vegetation
	TEXTURE	fine to smooth
3. STRUCTURES	FORM	Bold geometric forms (wind turbines) Diffused form (Gen-Tie)
	LINE	Bold Vertical & triangular (wind turbines) Diffused irregular ↕
	COLOR	White / Lt. Tan or Grey (wind turbines) w/ Red Lights Grey
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	(4)	0	12	8	4	(0)	(12)	[8]	4	0
	Line (3x)	9	(6)	3	[0]	9	6	(3)	0	(9)	[6]	3	0
	Color (2x)	6	(4)	2	[0]	(6)	[4]	2	0	(6)	[4]	2	0
	Texture (1x)	3	2	(1)	[0]	3	2	(1)	0	3	(2)	1	0
TOTALS		N/A				N/A				N/A			

1a. Maximum element feature: N/A (Form & Color - Wind Turbines)

b. Maximum feature contrast: Strong

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*): Kristine A. Keller Date: 4/14/2010

0 - Wind turbines
✓ ☐ - Gen-Tie

KOP 1 (c)
(ESJ)

Comments:

KOP: 1

Project Features Evaluated: ESJ
Phase I Wind Turbines) (Mexico)
500kV Gen-Tie T/L

Simulations Available: yes

Simulations Not Available: Access roads to wind turbines not shown

Visual Factors Considered Important:
(Wind Turbines) - Form (Height / Scale)
Line (Movement of Blades)
Color (Light Color of Turbines
: Red FAA Light
Lights)
ESJ Gen Tie Line - Diffused Form
- Small No. of Structures
(Combined PROJECT Elements Seen From KOP 1:
ECO Substation (See KOP 1, Figure 0.3-6B)
(See KOP 1 (ESJ) for Contrast Ratings)

Mitigation Measures yes

Impact Loss - I (Wind Turbines) Loss II - 500kV Gen Tie

Evaluator's Names: CHRISTINE Keller
Tony Kovacic
Josh Saunders

KOP 2 (a)
(ECO)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4-14-2010
District	
Resource Area	
Activity (program)	

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
ECO - Substation & 138kV T/L	KOP 2 - Old Hwy 80 E.	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/EIR Figure. 0.3-7A, -7B, -7C

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat / Rolling w/ Mts in Background
	LINE	Diffused, Undulating
	COLOR	Natural Tone - Browns, Tans, Grey-greens
	TEXTURE	Uniform w/ Rock Boulders
2. VEGETATION	FORM	Low shrubs - sparse to moderate cover
	LINE	Diffused - Band edge along unpaved access road
	COLOR	Green / Greys
	TEXTURE	Coarse to smooth (dotted / stippled pattern)
3. STRUCTURES	FORM	Large Scale 500kV Lattice (SWPL), Lt. Scale Comm. Fac.
	LINE	Lattice Towers - Diffused Semi Transparent
	COLOR	Grey - Lt. to Dark depending on lighting conditions
	TEXTURE	Smooth & Moderate Saturation

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 2(b)
(ECo)

1. LAND WATER	FORM	Sub & 138kV Line – Minor to no land form alt. except grading for subst.
	LINE	No change
	COLOR	No change (except veg/soil contrasts for Access & site grading)
	TEXTURE	Smooth/uniform
2. VEGETATION	FORM	geometric/linear form – from access road grading
	LINE	Strong lines – veg removal for substation, access & struct. sites
	COLOR	light tan soils & contrast with grey/green vegetation
	TEXTURE	fine to smooth
3. STRUCTURES	FORM	Sub – geometric, rectangular form; 138kV T/L – vertical form
	LINE	Sub – numerous vertical lines; T/L – horizontal lines (conductors)
	COLOR	light to medium grey (sub); brown/grey tone (T/L)
	TEXTURE	subst – smooth; T/L – smooth to slightly coarse

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		LAND/WATER BODY (1) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	VEGETATION (2) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	STRUCTURES (3) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	△4	0	12	(8)	4	0	(12)	[8]	[4]	0
	Line (3x)	9	6	△3	0	9	(6)	3	0	(9)	[6]	[3]	0
	Color (2x)	△6	4	2	0	6	4	(2)	0	6	(4)	[2]	0
	Texture (1x)	3	2	△1	0	3	2	(1)	0	3	(2)	[1]	0
TOTALS													

1a. Maximum element feature
Form – Substation (Scale)

b. Maximum feature contrast
Strong – Line & Form

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature] Date 4/14/2010

○ = Substation & Loop-In ☐ = 138kV T/L
△ = Both

KOP 2(c
(LCO)

Comments:

KOP: 2

Project Features Evaluated: LCO
LCO Substation
138 kV T/L

Simulations Available: yes - substation before and after landscaping plan implementation

Simulations Not Available: - Access roads not shown (LCO)
- Simulation of LSJ Wind Turbines not available (LSJ)

Visual Factors Considered Important:

Substation - Form / Scale of Facility
138kV T/L - Form / Scale compared to adjacent SWPL lattice St.

Combined PROJECT Elements Seen from KOP2:
- LSJ Wind Turbines (See KOP 1, Figure ...)
- LSJ 500kV Gen Tie Structures (0.3-60°)

(See KOP 4 (LSJ) for Contrast Ratings)

Mitigation Measures yes

Impact Class I - LCO Substation

Impact Class III - LCO 138kV T/L

Evaluator's Names: Christine Keller, Tony Kovacic, Josh Saunders

KOP2 (a)
(ECO-Alt)

UNITED STATES
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BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date 4/14/2010
District
Resource Area
Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
ECO-Alt. Sub. Site	KOP2-Old Hwy 80 E	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/EIR Figure: 0.3-7A, -7D, -7E

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	
	LINE	SAME AS PROPOSED ECO Sub. (See KOP 2-ECO Contrast Rating Worksheet)
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	
	LINE	SAME AS PROPOSED ECO Sub (See KOP 2-ECO Contrast Rating Worksheet)
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	
	LINE	SAME AS PROPOSED ECO Substation (See KOP 2-ECO Contrast Rating Worksheet)
	COLOR	
	TEXTURE	

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP2(b)
(ECO-Alt)

1. LAND WATER	FORM	Same As Proposed ECO Substation
	LINE	See KOP2-ECO Contrast Rating Worksheet
	COLOR	
	TEX-TURE	
2. VEGETATION	FORM	
	LINE	
	COLOR	
	TEX-TURE	
3. STRUCTURES	FORM	
	LINE	
	COLOR	Section D. - Same As Proposed ECO Substat
	TEX-TURE	(See KOP2-ECO Contrast Rating Worksheet)

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4 ✓	0	12	8	4	0	12	8	4	0
	Line (3x)	9	6	3 ✓	0	9	6	3	0	9	6	3	0
	Color (2x)	6 ✓	4	2	0	6	4	2	0	6	4	2	0
	Texture (1x)	3	2	1	0	3	2	1	0	3	2	1	0
TOTALS													

1a. Maximum element feature
Form: Substation

b. Maximum feature contrast
Strong: Line & Form

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature] Date 4/14/2010

O = Substation □ - 138 KV T/L
F loop-in

KOP 2 (C)
(FCO-Alt)

Comments:

KOP:

Project Features Evaluated:

Simulations Available:

Simulations Not Available:

Visual Factors Considered Important: Same As Proposed FCO Substation (See KOP 2-FCO Contrast Rating Worksheet)

Mitigation Measures yes

Evaluator's Names: CHRISTINE KELLER
TONY KOVSAC
JOSH SAUNDERS

KOP 3 (a) (ECO)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date 4-14-2010
District
Resource Area
Activity (program)

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
ECO - Substation + 138kV T/L	KOP 3 - Old Hwy 80 - E (Near BLM Airport Mesa)	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/EIR Figure D.3-8A, -8C

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Rolling w/ Mts in Background / Rugged FG
	LINE	Diffused, Undulating, Complex
	COLOR	Natural Tones - Numerous rocks (light tan)
	TEXTURE	Coarse, Uneven
2. VEGETATION	FORM	Low desert shrubs - Sparse cover
	LINE	Diffused
	COLOR	Green / Greys
	TEXTURE	Sparse density / uneven ; random pattern (dotted / stippled)
3. STRUCTURES	FORM	Lattice towers - Diffused, semi-transparent, large Scale
	LINE	Horizontal Lines (conductors)
	COLOR	Grey - Lt to dark depending on lighting conditions
	TEXTURE	Smooth, Moderate Intrusion

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 3(b)
(TCO)

1. LAND WATER	FORM	Sub & 138kV T/L - Minor landform alt (sub grading)
	LINE	No change
	COLOR	No change (except T/L access roads)
	TEXTURE	Smooth/uniform (access roads)
2. VEGETATION	FORM	Linear form (access roads & substation grading).
	LINE	diffused line from access roads
	COLOR	Lt. tan soil/vegetation contrast (T/L access roads)
	TEXTURE	fine to moderately coarse.
3. STRUCTURES	FORM	138kV T/L - vertical pole form (scale diminished by SWPL)
	LINE	horizontal lines (T/L conductors also diminished by SWPL)
	COLOR	brown/lt. grey
	TEXTURE	smooth to slightly coarse.

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST	LAND/WATER BODY (1) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	VEGETATION (2) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	STRUCTURES (3) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements: Form (4x)	12	8	(4)	0	12	8	(4)	0	12	(8)	4	0
Line (3x)	9	6	(3)	0	9	6	(3)	0	9	(6)	3	0
Color (2x)	6	4	(2)	0	6	4	(2)	0	6	4	(2)	0
Texture (1x)	3	2	(1)	0	3	2	(1)	0	3	2	(1)	0
TOTALS	N/A											

1a. Maximum element feature: 138kV T/L structures (multiple)

b. Maximum feature contrast: Moderate - Form & Line

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [illegible] Date 4/14/2010

NOTE: See KOP 2 for TCO Substation Contrast Ratings

KOP 3(C)
ECO

Comments:

KOP: 3 (ECO)

Project Features Evaluated:
ECO 138kV T/L
(Note: ECO Sub would also be visible - See KOP 2)

Simulations Available: NO (General location of 138kV noted on D.3-8C)

Simulations Not Available:
From KOP 3, PROJECT Elements not include ECO 138kV T/L, ECO Substation; ESJ Wind Turbines & ESJ Gen-Tie

Visual Factors Considered Important:
- Panoramic Views to Multiple PROJECT Elements
- long Views to 138kV T/L
- 138kV T/L Visibility is highlighted by structure skylining of multiple structures & Conductors
- Visual Contrast of 138kV line diminished by adjacent SWPL
- ESJ Gen-Tie Line shown in KOP 3 (ESJ) Figures D.3-8D through -8G

Mitigation Measures yes

Impact Class: 138kV T/L - Class III

Evaluator's Names: CHRISTINE Keller
TONY KOVACIC
JOSH Saunders

KOP 3 (a)
(TSJ)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT **VISUAL CONTRAST RATING WORKSHEET**	**Date** 4-14-2010
	District
	Resource Area
	Activity (program)

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
TSJ-Wind Turbines & Gas-fire	KOP 3-Old Hwy 80 E (Mesa BLM Airport Mesa)	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/EIR Figure D. 3-8B, -8D, -8E, -8F, -8G

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	
	LINE	Same As KOP 3 (TCO)
	COLOR	
	TEX-TURE	
2. VEGETATION	FORM	
	LINE	Same As KOP 3 (TCO)
	COLOR	
	TEX-TURE	
3. STRUCTURES	FORM	Same As KOP 3 (TCO)
	LINE	
	COLOR	
	TEX-TURE	

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 3 (ESJ) (b)

1. LAND WATER	FORM	Minor land form alterations
	LINE	No change
	COLOR	No change (except Gen-Tie Access Rds)
	TEXTURE	Smooth to slightly coarse (access roads)
2. VEGETATION	FORM	No change
	LINE	Minor change (access roads); visual change minimized by view angle.
	COLOR	Very light soil contrasts at Gen-Tie Structures
	TEXTURE	Smooth, slightly coarse
3. STRUCTURES	FORM	Wind turbines - bold geometric form - very large scale Gentie lattice - large scale geometric & diffused form
	LINE	Wind turbines - Bold vertical lines; triangular lines Gen-tie lattice - Horizontal lines (conductors)
	COLOR	Wind turbines - white to light grey Gen-tie lattice - Matte Grey
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST	Land/Water Body (1) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Vegetation (2) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Structures (3) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Form (4x)	12	8	(4)	0	12	8	4	(0)	[12]	(8)	4	0
Line (3x)	9	6	3	(0)	9	6	(3)	0	[9]	(6)	3	0
Color (2x)	6	4	2	(0)	6	(4)	2	0	[6]	(4)	2	0
Texture (1x)	3	2	1	(0)	3	2	(1)	0	[3]	(2)	1	0
TOTALS												

1a. Maximum element feature: Wind Turbines

b. Maximum feature contrast: Strong - Form, Line, Color, Texture

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature] Date 4/14/2010

□ = ESJ Wind Turbines
○ = ESJ Gen-Tie

KOP 3 (c)
(ESJ)

Comments:

KOP: 3 (ESJ)

Project Features Evaluated:
ESJ Wind Turbines)
ESJ Gen-Tie

Simulations Available:
Wind turbines) (no)
Gen-tie (yes)

Simulations Not Available:
There are no simulations to show total PROJECT Contrasts. From KOP 3, PROJECT Elements seen would include: ESJ wind turbines, ESJ Gentie, ECO Sub.

Visual Factors Considered Important:
ECO 138kV T/L
- Open panoramic views to PROJECT.
- Skylining of ESJ Wind Turbines
- Form, L.D., and Line of Wind Turbines creates Very Strong Dominant Visual Contrasts
- Contrasts of Gen-Tie are Reduced By Background hoard slope Patterns & SWPL (Similar Lattice Structure Design)

Mitigation Measures yes

Impact Class: ESJ Wind Turbines - Class I
ESJ Gen-Tie - Class II

Evaluator's Names: CHRISTINE KELLER
TONY KOVACIC
Josh Saunders

Note: This worksheet also applies to ESJ Optional design for Gen-Tie, including 230kV lattice, 500kV single pole & 230kV angle pole designs. (See Figures D.3-8D through D.3-8G)

KOP4 (ECO) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/14/2010
District	N/A
Resource Area	N/A
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
ECO - 138 kV Transmission Line	KOP4 - Old Hwy 80 W	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/EIR Figure D.3-.9A, -9B

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Rolling
	LINE	Diffused & Undulating
	COLOR	Tans and Brown Soils, w Lt. Tan Rock Outcroppings
	TEXTURE	Medium Grain w/ Rock Boulders
2. VEGETATION	FORM	Low profile desert shrubs
	LINE	Diffused
	COLOR	Grey / Green
	TEXTURE	Dotted & stippled pattern - medium texture
3. STRUCTURES	FORM	Large Scale Lattice (SWPL), Bold & Complex
	LINE	Vertical & geometric, Horizontal (Conductors)
	COLOR	Grey tone, Varies by lighting conditions
	TEXTURE	Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 4 (6)
(KCO)

1. LAND WATER	FORM	Minor to no change (access roads & pole sites)
	LINE	Minor to no change (access roads)
	COLOR	No change
	TEXTURE	No change
2. VEGETATION	FORM	Minor to no change
	LINE	Minor to no change
	COLOR	Minor to no change
	TEXTURE	Minor to no change
3. STRUCTURES	FORM	Vertical - 138kV poles, subordinate in scale to SWPL
	LINE	horizontal - 138 kV conductors, also subordinate to SWPL
	COLOR	brown - medium saturation
	TEXTURE	smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	(4)	0	12	8	(4)	0	12	(8)	4	0
	Line (3x)	9	6	(3)	0	9	6	(3)	0	9	(6)	3	0
	Color (2x)	6	4	(2)	0	6	4	(2)	0	6	4	(2)	0
	Texture (1x)	3	2	(1)	0	3	2	(1)	0	3	2	(1)	0
TOTALS													

1a. Maximum element feature: Structure - Form

b. Maximum feature contrast: Moderate) - Form, line

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature] Date 4/14/2010

KOP 4
(ECO) (c)

Comments:

KOP: 4 Old Hwy 80 Westbound

Project Features Evaluated: 138kV T/L structures & conductors

Simulations Available: yes

Simulations Not Available: May not fully show planned access roads

Visual Factors Considered Important:

- Open visibility w/ skylining conditions
- Potential contrasts of 138kV T/L reduced by SWPL, which will be paralleled.

Mitigation Measures - No Add. Measures

Impact Class: Class III

Evaluator's Names: CHRISTINE KELLER JOSH SPANDERS
TONY KOVACIC

KOP-5
(ECO) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4-14-2010
District	N/A
Resource Area	N/A
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
ECO - 138KV Trans. Line	KOP 5 - Comm. of Tascumbia	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	E15/E12 Figures D.3-10A, -10B

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Slightly Rolling to Steep Hill
	LINE	Diffused Edge / Curving to straight
	COLOR	Brown tones
	TEXTURE	Fine Grain / Sparce Density of Veg. Pattern
2. VEGETATION	FORM	Diffused
	LINE	Diffused, Lt. trans & greys in community
	COLOR	Green / Grey Patterns & Conifer Tones (Comm-Trees)
	TEXTURE	Even, random with light stippeled pattern
3. STRUCTURES	FORM	Comm - Distribution lines, houses - Compact, bold, irregular SWPL - large, bold, complex design
	LINE	Comm - Vertical lines (Utility Poles) - Bold, Rectangular - Homes SWPL - Vertical, geometric, Horizontal Conductors varied design
	COLOR	Multi - Comm - Tans, Reds, Whites, grey street SWPL - Greys
	TEXTURE	Comm - Varied, Mostly Smooth SWPL - Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 5
(2co) (b)

1. LAND WATER	FORM	Minor to no change (access roads/pole sites)
	LINE	Minor to no change (access roads)
	COLOR	No change
	TEXTURE	No change
2. VEGETATION	FORM	Minor to no change
	LINE	Minor to no change
	COLOR	Minor to no change
	TEXTURE	Minor to no change
3. STRUCTURES	FORM	Vertical - 138kV poles, subordinate in scale to SWPL
	LINE	Horizontal - 138kV conductors, some vertical w/ possible access roads.
	COLOR	Brown - Medium tone & saturation
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	0	12	8	4	0	12	8	4	0
	Line (3x)	9	6	3	0	9	6	3	0	9	6	3	0
	Color (2x)	6	4	2	0	6	4	2	0	6	4	2	0
	Texture (1x)	3	2	1	0	3	2	1	0	3	2	1	0
TOTALS		N/A		N/A		N/A							

1a. Maximum element feature: Structures - 138kV T/L

b. Maximum feature contrast: Moderate - Line & Form

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature] Date 4/14/2010

KOP 5
(ECO (c))

Comments:

KOP: 5 (Community of Jacumba, Near Hwy 80)

Project Features Evaluated:
ECO - 138kV Transmission Line

Simulations Available: yes

Simulations Not Available: Ø

Visual Factors Considered Important:

- Open, Elevated View to ECO 138kV Line, Adjacent to SWPL
- Visual Contrasts of 138kV structures & lines minimized by SWPL
- Numerous overhead utility lines are similar in visual characteristics & closer to viewer.

Mitigation Measures: No Add. Measures

Impact Class - III

Evaluator's Names: CHRISTINE A. Keller, Tony Kovacic, Josh Saunders

KOP6 (PCO) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/14/2010
District	N/A
Resource Area	N/A
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
PCO-138kV T/L	KOP6 - Jacumba, Hill St.	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	DEIS/EIR Figures D.3-11A, -11C

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Varied - Rolling to steep hills in MG, Mts in Background, Flat Agricultural & Cabin - in Foreground
	LINE	Diffused - Natural Hills & Mts Bold lines - International Border Fence & Agricultural fields
	COLOR	Varied - Browns & Tans - Natural Areas Dark Green, Muted Greens - Community and Ag. Areas
	TEXTURE	Fine to Coarse Grains
2. VEGETATION	FORM	Varied - Sparse, diffused forms in natural areas Dense green forms in Agricultural areas
	LINE	Generally diffused. Some strong lines (International Border Fence and Agricultural fields)
	COLOR	Varies from muted natural ones/greens (hills, Mts - natural areas) to bright dense greens in fields.
	TEXTURE	Varies - Smooth to Coarse
3. STRUCTURES	FORM	Varied - Rectangular forms - houses, broad band - International Border Fence SWPL - Complex, geometric form
	LINE	Dominant lines - International Border Fence & Irrigated Fields
	COLOR	Greys, Browns & White/Red Colors in House & Comm. Structures
	TEXTURE	Smooth to Moderately Coarse

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 6
(Co) (6)

1. LAND WATER	FORM	little to no change
	LINE	little to no change
	COLOR	little to no change
	TEXTURE	little to no change
2. VEGETATION	FORM	little to no change
	LINE	weak change - veg clearing for access roads
	COLOR	little to no change (however, some color contrasts may result from access roads)
	TEXTURE	little to no change
3. STRUCTURES	FORM	blended vertical forms (138kV poles)
	LINE	blended, horizontal conductors, some irregular bands for access roads.
	COLOR	brown & grey tones (poles & conductors)
	TEXTURE	smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0)	12	8	(4)	0	12	8	(4)	0
	Line (3x)	9	6	3	(0)	9	6	(3)	0	9	(6)	3	0
	Color (2x)	6	4	2	(0)	6	4	(2)	0	6	4	(2)	0
	Texture (1x)	3	2	1	(0)	3	2	(1)	0	3	2	(1)	0
TOTALS		N/A				N/A				N/A			

1a. Maximum element feature: 138kV transmission structures

b. Maximum feature contrast: Moderate (Line)

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature] Date 4/14/2010

KOP6
(TCO) (c)

Comments:

KOP: 6 Jacumba, Hill St.

Project Features Evaluated:
TCO - 138kV Transmission Line

Simulations Available: ✓

Simulations Not Available: ✓

Visual Factors Considered Important:

- Views from Hill St. provide elevated, open, & panoramic views to the south
- 138kV T/L - Long views, adjacent to SWPL
  - Backscreened in most areas by natural topography & vegetation
  - Access roads may create moderate contrasts in vegetation/soil edges.
- Other Project Elements Seen: ESJ Phase I Wind Turbines (See KOP6 (ESJ) & Figures D.3-11B and D.3-11D

Mitigation Measures NO

Impact Class - Class III

Evaluator's Names: CHRISTINE Keller
TONY KOVACIC
JOSH SAUNDERS

KOP 6 (ESJ) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/14/2010
District	N/A
Resource Area	N/A
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
ESJ - Phase I Wind Turbines	KOP 6 - Jacumba, Hill 57	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	ESJ/ECR Figure D.3-11B and D.3-11D

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	
	LINE	
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	
	LINE	
	COLOR	
	TEXTURE	

SAME AS KOP 6 (ECO)
See ECO Contrast Rating Worksheet

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP6
(ESJ)(b)

1. LAND WATER	FORM	little to no change
	LINE	
	COLOR	
	TEX-TURE	
2. VEGETATION	FORM	little to no change
	LINE	
	COLOR	
	TEX-TURE	
3. STRUCTURES	FORM	Bold Geometric forms (wind turbines)
	LINE	Bold Vertical & Triangular lines (blades & movement)
	COLOR	White/Lt. Grey & Red FAA Night lighting
	TEX-TURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0)	12	8	4	(0)	(12)	8	4	0
Elements	Line (3x)	9	6	3	(0)	9	6	3	(0)	(9)	6	3	0
Elements	Color (2x)	6	4	2	(0)	6	4	2	(0)	(6)	4	2	0
Elements	Texture (1x)	3	2	1	(0)	3	2	1	(0)	3	2	(1)	0
TOTALS		N/A				N/A				N/A			

1a. Maximum element feature
Wind Turbines

b. Maximum feature contrast
Strong - Form, Line, Color

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature] Date 4/14/2010

KOP 6
(TSJ) (c)

Comments:

KOP: KOP 6 - TSJ

Project Features Evaluated: TSJ Phase I Wind Turbines

Simulations Available: yes

~~Simulations Not Available:~~ Ø

Other PROJECT Elements Seen: TCO 138kV T/L

Cumulative Projects Seen: Sunrise 500kV T/L

Visual Factors Considered Important:

- Over 30 Wind Turbines will be visible on the ridgeline of mountains
- The height (scale), light color blade movement and FAA lighting will combine to create exceptionally strong contrasts, which will dominate the visual character & scenic quality from Jacumba.

Mitigation Measures yes

Class I Impacts

Evaluator's Names: CHRISTINE KELLER
TONY KOVACIC
Josh Saunders

KOP 7 (PCO) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/14/2010
District	N/A
Resource Area	N/A
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
PCO - 138kV T/L	KOP 7 - Boulevard, Tule Jim Rd.	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/EIR Figures D.3-12A, -12B, -12C

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat to Slightly Sloping
	LINE	Bordered Jewell Valley & Tule Jim Roads
	COLOR	Lt. Tan Soil Color
	TEXTURE	Varies - Coarse to Fine,
2. VEGETATION	FORM	Patchy w/ Medium Density
	LINE	Diffused
	COLOR	Dark Green to Grey Green
	TEXTURE	Clumped, Dense w/ Interspersed Rock Boulders
3. STRUCTURES	FORM	Vertical, slender - Existing Util Lines, Horizontal - Rds Rectangular - Houses
	LINE	Bordered - Jewell Valley & Tule Jim Rds.
	COLOR	Util Poles - Brown/Grey; Houses - Earth Tones Roads - Grey w/ Lt. Tan Soil Shoulders
	TEXTURE	Predominantly Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP M
(ECO)(6)

1. LAND WATER	FORM	No change
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	No change
	LINE	Additional Clearing for Spur Rds. Widening of Road Element
	COLOR	No change
	TEXTURE	no change
3. STRUCTURES	FORM	Taller, Vertical, Slender Forms; Increased # and structure complexity
	LINE	Increased # of horizontal lines (cross-arms & conductors); & Vertical lines (poles)
	COLOR	Brown & Grey
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0)	12	8	4	(0)	(12)	8	4	0
	Line (3x)	9	6	3	(0)	9	6	(3)	0	(9)	6	3	0
	Color (2x)	6	4	2	(0)	6	4	2	(0)	6	(4)	2	0
	Texture (1x)	3	2	1	(0)	3	2	1	(0)	3	(2)	1	0
TOTALS		N/A				N/A							

1a. Maximum element feature: 138kV T/L poles

b. Maximum feature contrast: Strong – Line, Form

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature] Date 4/14/2010

Note: contrast ratings also applicable to ECO Substation Site Alternative 138kV T/L (see Figure D.3-12c)

KOP M
(ECO) (C)

Comments:

KOP: KOP M - Jewell Valley & Tule Jane Rds.

Project Features Evaluated:
ECO 138kV Transmission Line w/ Rebuilt Distribution Line

Simulations Available: yes

Simulations Not Available: N/A

Visual Factors Considered Important:

- 138kV T/L will be open, visible & skylined
- Scale of 138kV T/L to be about 50% greater than existing distribution line
- Visual contrasts in Line, Form & Color are due to the larger, and parallel 138kV structures and longer rebuilt distribut. lines.

Mitigation Measures yes

Impact Class: I

Evaluator's Names: CHRISTINE KELLER
TONY FONSECA
JOSH SAUNDERS

KOP-M (ECOalt) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/14/2010
District	N/A
Resource Area	N/A
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
ECO - Underground Alt - 138kV TL	KOP M - Boulevard Type Streets	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	
			EIS/EIR Figure D. 3-12A and D.3-12D

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	
	LINE	Same as KOP M - ECO 138kV Overhead
	COLOR	See Contrast Rating Worksheet.
	TEXTURE	
3. STRUCTURES	FORM	
	LINE	
	COLOR	
	TEXTURE	

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 7
(ECO A1L) (b)

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

1. LAND WATER	FORM	Same as KOP 7 – 138kV Overhead except
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	Tule Jim Road Widening will increase width
	LINE	of tan/soil band to Moderate (Line and texture
	COLOR	elements (Land/Water Body), Line, Color, Texture Elements
	TEXTURE	(Vegetation)).
3. STRUCTURES	FORM	Existing Distribution Lines & Pole Removed
	LINE	Existing Contrasts from structures and lines removed.
	COLOR	
	TEXTURE	

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0)	12	8	4	(0)	12	8	4	(0)
	Line (3x)	9	(6)	3	0	9	(6)	3	0	9	(6)		0
	Color (2x)	6	4	2	(0)	6	(4)	2	0	6	4	(2)	0
	Texture (1x)	3	(2)	1	0	3	(2)	1	0	3	(2)	1	0
TOTALS		N/A				N/A				N/A			

1a. Maximum element feature: Existing utility pole removed

b. Maximum feature contrast: Moderate

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) John B Jackson Date 4/14/2010

KOP 7
(Eco-Alt) (c)

Comments:

KOP: 7 (Jewell Valley & Tule Jane Rds / Boulevard)

Project Features Evaluated:
- Removal of Existing Distribution Lines
- Undergrounding of 138 kV T/L & Distribution line

Simulations Available:

Simulations Not Available: ✓

Visual Factors Considered Important:

- Existing Visual Contrasts from Distribution line will be removed (Structure, Line, Color & Texture)
- Existing Visual Contrasts created by veg/soil edges along Tule Jane Rd. may be widened (increased width of road edge).
- Alt may require vaults at/near ground level for maintenance (low structure, color, line & texture (weak) contrasts)

Mitigation Measures No additional measures

Impact Class: TV (Beneficial)

Evaluator's Names: Christine Keller
Tony Kovacs
Josh Saunders

(ECO) KOP 8 (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	N/A
Resource Area	N/A
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
ECO-Boulevard Substation/138kV Riser	KOP 8 - Boulevard at Hwy 80	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/EIR Figure D. 3 - 13A, -13B, -13C

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Sloping Hillside
	LINE	Transitional Edges & Butt Edges, Irregular & Subangular
	COLOR	Earth Tones - Lt. Tan Soils
	TEXTURE	Gradational - Between Smooth & slightly rougher
2. VEGETATION	FORM	Prominent - Live Oak near Rd & Distinctive
	LINE	Varies from clumpy shrubs to sparse desert grasses to prominent like oaks
	COLOR	Varies from tan/grey desert vegetation to dark green shrubs & trees
	TEXTURE	Varied. Smooth to Clumpy
3. STRUCTURES	FORM	Complex, geometric forms - existing Boulevard Substation Vertical poles w/ horizontal cross arms - Utility lines
	LINE	Banded lines - Hwy 80 & Tule Jim Road Substation & Utility Conductors
	COLOR	Utility Lines & Boulevard Substation - grey & brown tones Existing Buildings - Lt. Tans, Reddish roofs, neutral colors
	TEXTURE	Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 8
(PCo) (b)

1. LAND WATER	FORM	Increased Height & Slope of Land Adj to Old Hwy 80 & Increased geometric form of Sub Site.
	LINE	No change
	COLOR	No change
	TEXTURE	Increased smoothness & uniformity of land texture
2. VEGETATION	FORM	Loss of prominent Live Oak Tree near Old Hwy 80 & 2 Other Live Oak in Project
	LINE	Less Diffused lines
	COLOR	Increased uniformity of vegetation patterns & colors
	TEXTURE	Clumpy, less variety of vegetation textures
3. STRUCTURES	FORM	Boulevard Substation - Prominent increase in Scale (pre/mod scaping) Riser Structure - Increased Complexity & Mass
	LINE	Reduced Line Complexity
	COLOR	Greys and Neutral Colors (Tans, Lt. Brown)
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	VEGETATION (2) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	STRUCTURES (3) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	(8)	4	0	(12)	8	4	0	(12)	8	4	0
	Line (3x)	9	6	(3)	0	9	(6)	3	0	9	(6)	3	0
	Color (2x)	6	4	(2)	0	6	(4)	2	0	6	(4)	2	0
	Texture (1x)	3	2	(1)	0	3	(2)	1	0	3	(2)	1	0
TOTALS		N/A				N/A				N/A			

1a. Maximum element feature: Boulevard Substation

b. Maximum feature contrast: Strong - Permitting plan; Moderate - Post landscape plan

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) Diane A. Keller Date 4-15-2010

O = Boulevard Substation Rebuild (w/ Landscape Plan)

V = 138kV Riser Structure

KOP 8
(Tw) (c)

Comments:

KOP: 8 Community of Boulevard @ Old Highway 80

Project Features Evaluated:
Boulevard Substation Rebuild
138kV T/L Riser Structure

Simulations Available: yes

Simulations Not Available: ∅

Visual Factors Considered Important:

- Views from Old Hwy 80 are slightly intense; Consequently landscaping plan will be effective in screening substation equipment.
- Prominent live Oak is planned for removal. (As well as 2 more trees on site)
- Substation will be similar in form/line elements as existing substation. Scale/presence is the main visual element to change
- Riser structure will be evident due to scale, complexity of form & proximity to viewers.

Mitigation Measures yes - (Underground T/L further south)

Impact Class - II (Boulevard Substation & Riser Structure)

Evaluator's Names: CHRISTINE KELLER
TONY KOVACIC
Josh SAUNDERS

Note: KOP's 8 & 9 are from very similar locations. View orientation differs. See KOP 9 Figures & Worksheets for Additional Information on Tule Project Elements & Alternatives

KOP 9
(ECO) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	N/A
Resource Area	N/A
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
ECO - Boulevard Substation Rebuild	KOP 9 - Boulevard	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	
			E15/E11C Figures D.3-.14A, -14D, -14F

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat to Rolling
	LINE	Site - Symmetry; Background - Diffused & Undulating
	COLOR	Light Tan Soils
	TEXTURE	Smooth at Site
2. VEGETATION	FORM	Sparse, except for Live Oak Tree
	LINE	Varies from clumpy shrubs in FG, sparse desert cover - on site) & round live oak (prominent)
	COLOR	Varies from light tans, on-site, dark green (on site) yellow & greens
	TEXTURE	Mottled, irregular on site, relatively uniform elsewhere
3. STRUCTURES	FORM	Buildings - Rectangular; Chain-link fences & linear & rectangular
	LINE	Mainly horizontal (roads, fences), existing utility lines - some vertical elements
	COLOR	Predominantly natural earth tones (yellow greens & tans) Varied colors (red, white) w/ Structures
	TEXTURE	Varies from smooth - solid to semi-transparent (Blvd. Sub. & Chain link fence)

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 9
(Eco) (6)

1. LAND WATER	FORM	More defined rectangular form (from sub. grading)
	LINE	No significant or notable change N/A
	COLOR	no change
	TEXTURE	Will change to smoother surface texture
2. VEGETATION	FORM	w/landscaping plan, vegetation forms will be more consistent with desert shrub forms
	LINE	no substantial change
	COLOR	Vegetation Colors on sub site will be more consistent with desert shrub Natural Colors
	TEXTURE	More consistent with natural textures + vegetation patterns
3. STRUCTURES	FORM	Bold form, increased scale, as viewed from hillside superior view angle
	LINE	Distinct line patterns seen from superior view angle
	COLOR	Grey - Substation equipment; White lighting
	TEXTURE	Smooth - Substation equipment ; Fencing - Semi-transparent

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	(8)	4	0	12	8	4	0	(12)	8	4	0
	Line (3x)	9	(6)	3	0	9	6	3	0	(9)	6	3	0
	Color (2x)	6	(4)	2	0	6	4	2	0	(6)	4	2	0
	Texture (1x)	3	(2)	1	0	3	2	1	0	(3)	2	1	0
TOTALS		N/A				N/A				N/A			

1a. Maximum element feature: Substation / Expansion (Blvd.)

b. Maximum feature contrast: Strong - Line, Form, Color, Texture

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) Date 4-15-2010

KOP 9
(Tco) (c)

Comments:

KOP: 9

Project Features Evaluated:
Boulevard Substation Rebuild

Simulations Available:

Simulations Not Available: ✓

Visual Factors Considered Important:
- Superior Viewing Angle on hillside South of Old Hwy 80 will allow elevated views into substation. Size / Scale of Substation will be evident.
- Close (FG) Viewing Distance

Other PROJECT Elements Seen from KOP 9:
- Tule Wind Turbines
- Tule 138 kV T/L

Other Cumulative Projects Seen: Sunrise 500kV line
Other Wind Projects to North

Mitigation Measures - No Additional Measures

Impact Class - Class I

Evaluator's Names: CHRISTINE KELLER, TONY KOVACIC, Josh Saunders

KOP 9
(Alt Alts) ⑫

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	N/A
Resource Area	N/A
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Alt-138kV T/L Alts (Hwy 80 & UG)	KOP 9 - Boulevard	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	
			(15/11C Figures) D.3-, 14A, -14C, -14F, -14G

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	
	LINE	Same as KOP 9 (Alt Contrast Rating Worksheet)
	COLOR	
	TEXTURE	Boulevard Substation Rebuild
3. STRUCTURES	FORM	
	LINE	
	COLOR	
	TEXTURE	

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 9
(Eco Alt.) (6)

1. LAND WATER	FORM	No Change
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	Increased Form Contrast at Pole Sites & Along Underground Trench
	LINE	Increased Line Contrast (Band-Widen) at Vegetation/Soil edge - At Pole Sites; Underground Trench
	COLOR	No Change (Long-term)
	TEXTURE	Existing clumpy texture to become more smooth - irregular pattern
3. STRUCTURES	FORM	138kV U.G. Alt. & Access Vaults - Low, Rectangular Forms 138kV OH Alt. - Slender Vertical Forms, Height/Scale Impacts
	LINE	138kV OH Alt - Horizontal Lines, Increased Banding Across View
	COLOR	Brown structures, grey conductors; Underground Vaults - Neutral Colors w/ Markings
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		LAND/WATER BODY (1) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	VEGETATION (2) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	STRUCTURES (3) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0) ✓	12	8	4	(0) ✓	(12)	8	[4]	0
	Line (3x)	9	6	3	(0) ✓	9	[6]	3	0	(9)	6	3	0
	Color (2x)	6	4	2	(0) ✓	6	[4]	2	0	(6)	(4)	2	0
	Texture (1x)	3	2	1	(0) ✓	3	[2]	1	0	(3)	(2)	1	0
TOTALS		N/A				N/A				N/A			

1a. Maximum element feature
138kV Structures (Hwy 80 Alt)

b. Maximum feature contrast
Strong (138kV T/L, Line; Form)

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature]

Date 4/15/2010

O = 138kV Overhead Alt - Old Hwy 80
✓☐ = 138kV Underground Alt - Old Hwy 80

KOP 9
(Eco Alts) (c)

Comments:

KOP: 9 Eco 138kV T/L Alt's -

Project Features Evaluated: Old Hwy 80 Overhead Route Alt
Old Hwy 80 Underground Route Alt.

Simulations Available: NO

Simulations Not Available: ✓

Visual Factors Considered Important:

- Superior View Orientation Provides Open, Panoramic Views to the North, East & West
- 138kV T/L Overhead would have very strong contrasts due to both structures and conductors cutting across views (banding & view obstruction)
- 138kV Underground Alt would create weak to Moderate contrasts due to veg/soil edge effects & low profile vaults.

Other PROJECT ELEMENTS THAT WOULD BE SEEN:
Tule Wind Turbines Tule 138kV T/L
Cumulative Projects that would also be seen:
Sunrise 500kV T/L & Other Wind Developments N W.

Mitigation Measures yes (U.G. Alt.) seeding/weed control

Impact Classes: Old Hwy 80 Rt Alt. (OH) - Class II
Old Hwy 80 Underground Alt - Class II

Evaluator's Names: CHRISTINE KELLER
TONY KOVACIC
JOSH SAUNDERS

KOP 9 (Tule) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	N/A
Resource Area	N/A
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule-Wind Turbines; 138kV T/L	KOP9 - Boulevard	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/EIR Figures D.3 - 14A, -14B, -14C, -14D, -14E

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	Same As KOP 9 (LCO Contrast Rating Worksheet for Boulevard Substation Rebuilt)
	LINE	
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	
	LINE	
	COLOR	
	TEXTURE	

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 9 (Tule) (b)

1. LAND WATER	FORM	Wind Turbines - No Change / Tule 138kV T/L - No Change
	LINE	Wind Turbines - No Change / Tule 138kV T/L - No Change
	COLOR	Wind Turbines - No Change / Tule 138kV T/L - No Change
	TEXTURE	Wind Turbines - No Change / Tule 138kV T/L - No Change
2. VEGETATION	FORM	Wind Turbines - No Change / Tule 138kV - Increased form contrast at pole sites
	LINE	Wind Turbines - No Change / Tule 138kV - Soil/Veg Edge Contrasts - Pole Sites
	COLOR	Wind Turbines - No Change / Tule 138kV - No Change
	TEXTURE	Wind Turbines - No Change / Tule 138kV - Some texture change pole sites
3. STRUCTURES	FORM	Strong, Bold Form - Turbines / Slender vertical forms - T/L
	LINE	Bold Triangular Lines & Movement / Vertical & Horizontal lines, Banding Across Views
	COLOR	Bright - White / Lt. Grey w Red Lights / Neutral / Brown Tone & Grey Tones
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	0 ✓	12	8	4 ✓	0	12 ✓	8	4	0
	Line (3x)	9	6	3	0 ✓	9	6	3 ✓	0	9 ✓	6	3	0
	Color (2x)	6	4	2	0 ✓	6	4	2	0 ✓	6 ✓	4 ✓	2	0
	Texture (1x)	3	2	1	0 ✓	3	2	1 ✓	0	3 ✓	2 ✓	1	0
TOTALS		N/A				N/A				N/A			

1a. Maximum element feature: Wind Turbines & 138kV Structures

b. Maximum feature contrast: Strong (Wind Turbines) T/L Structures (Conductors)

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature] Date 4/15/2010

O = Tule (Wind Turbines) (See Figure D.3-14B + -14E)

✓ = Tule 138kV T/L (ON)

KOP 9
(Tule) (c)

Comments:

KOP: 9 - Community of Boulevard

Project Features Evaluated: Tule Wind Turbines
Tule 138kV Transmission line

Simulations Available: partial - Wind turbines

Simulations Not Available: No Simulation for Tule 138kV Transmission line

Visual Factors Considered Important:

- Superior View Orientation Provides Open, Panoramic Views to North, East, West.
- Tule 138kV T/L would create VERY STRONG Contrasts due to structures (LG) and conductors cutting across views (banding & view obstruction)

Other Project Features That Would Be Seen:
ECO Boulevard Substation Rebuild
Other Cumulative Projects That Would Be Seen:
Sunrise 500kV T/L & Other Wind Projects to N/NW

Mitigation Measures eg - underground Tule 138kV T/L

Impact Classes: Tule Wind Turbines - Class I, 138kV T/L - Class I

Evaluator's Names: CHRISTINE KELLER
TONY KOVACIC
JOSH SAUNDERS

KOP9
Rt. 2 & Rt. 3 - Tule Alts (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	N/A
Resource Area	N/A
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule-138kV T/L Alt (UG)	KOP9 - Boulevard	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	
			EIS/EIR Figures D. 3 - 14A, -14B, -14C, -14F, -14G

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	Same as Contrast Rating Worksheet for ECO Boulevard Substation Rebuild
	LINE	
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	
	LINE	
	COLOR	
	TEXTURE	

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 9
Rt. 2 & Rt. 3 Table 04(b)

1. LAND WATER	FORM	NO CHANGE
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	Increased Form Contrast At Underground Trench
	LINE	Increased Line Contrast (Veg/Soil Edge) Along Underground Trench
	COLOR	No Change (Lg-term)
	TEXTURE	Existing Clumpy pattern to become smooth, regular pattern
3. STRUCTURES	FORM	Low profile rectangular forms - Underground Vaults
	LINE	No Change
	COLOR	Neutral Colors w/ Markings at Vault Locations
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	0 ✓	12	8	4	0 ✓	12 ✓	8	4	0
	Line (3x)	9	6	3	0 ✓	9	6	3 ✓	0	9 ✓	6	3	0
	Color (2x)	6	4	2	0 ✓	6	4	2	0 ✓	6 ✓	4 ✓	2	0
	Texture (1x)	3	2	1	0 ✓	3	2	1	0 ✓	3 ✓	2 ✓	1	0
TOTALS		N/A				N/A				N/A			

1a. Maximum element feature: Underground Trench & Vaults

b. Maximum feature contrast: Underground Trench - Moderate line, Color

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*): Katie A. Kelly Date 4/15/2010

Rt. 2 & Rt. 3 UG = 0

Rt. 2 + Rt. 3 OH = ✓ (see ECO AHs) (b) for contrast descriptions

KOP 9
Rt.2 + Rt.3 Tule Alt
(c)

Comments:

KOP: KOP 9 – Tule Rt. 2+3 Underground Alt.

Project Features Evaluated: Underground 138kV T/L – Trench & Vaults

Simulations Available: No

Simulations Not Available: ✓

Visual Factors Considered Important:

- Superior View Orientation, Open Panoramic Views to North, East, West
- Rt.2 + Rt.3 Underground Alt. would create weak to moderate contrasts due to veg/soil edges & low profile rectangular vaults.

Other Project Elements Seen Would Include:
ECO Boulevard Substation
Tule Wind Turbines

Other Cumulative Projects:
Sunrise 500kV T/L & Other Wind Developments to NW

Mitigation Measures Yes – Seeding / weed control

Impact Classes: Rt 2+3 Underground Alt – Class II

Evaluator's Names: Christine Keller
Tony Kovacic, Josh Saunders

Note: Rt.2 + Rt.3 OH comments similar to those discussed on ECO AH3(L) for the ECO Hwy 80 AH(OH)

(Tule) (a)
KOP 10

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date 4/15/2010
District
Resource Area
Activity (program)

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule - Wind Turbines	KOP 10 - Ribbonwood Rd	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/EIR Figure D.3-15A and D.3-15B

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat to Slightly Rolling / Sloping - Higher hills in background
	LINE	Very Diffused
	COLOR	Lt Tan / Brown
	TEXTURE	Coarse (Rock Boulders) to Smoother Grains
2. VEGETATION	FORM	Low Profile Desert Shrubs
	LINE	Diffused / Clumpy, Irregular
	COLOR	Muted Greys & Greens & Browns
	TEXTURE	Patchy & Clumpy
3. STRUCTURES	FORM	Little evidence - Rectangular forms (houses along Rd)
	LINE	Little evidence in KOP VIEW
	COLOR	Little evidence in KOP VIEW
	TEXTURE	Little evidence in KOP VIEW

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 10
(Tule) (b)

1. LAND WATER	FORM	None
	LINE	Some access roads may create veg/soil bonds. Not Seen - Angle of View
	COLOR	None
	TEX-TURE	None
2. VEGETATION	FORM	None
	LINE	None
	COLOR	None
	TEX-TURE	None
3. STRUCTURES	FORM	Bold, Dominant Forms (Scale)
	LINE	Vertical, Geometric: Triangular Lines - (Movement of Blades)
	COLOR	Bright Light Color (Lt. Grey / Off White) w/ Red FAA Night Light, WS
	TEX-TURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0)	12	8	4	(0)	(12)	8	4	0
	Line (3x)	9	6	(3)	0	9	6	3	(0)	(9)	6	3	0
	Color (2x)	6	4	2	(0)	6	4	2	(0)	(6)	4	2	0
	Texture (1x)	3	2	1	(0)	3	2	1	(0)	(3)	2	1	0
TOTALS													

1a. Maximum element feature
(Wind Turbines) (8)

b. Maximum feature contrast
Strong - Form, Lines, Color

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) Christine A. Kelly Date 4/15/2010

KOP 10
(Tule) (c)

Comments:

KOP: KOP10 - Boulevard / Ribbonwood Rd.

Project Features Evaluated:
Proposed Tule Wind Turbines

Simulations Available: ✓

Simulations Not Available:

Visual Factors Considered Important:

- Scale, Height, Movement & Night Lighting will Create Very Strong, Dominant Visual Element
- Views are Open, Panoramic and Natural Setting in Current State (Normal Angle of View)
- Skylining of Turbines, in FG/MG Distance Zone
- Visual Impacts Will be Sustained (On-going) for Residents.

Mitigation Measures No Add. Measures

Impact Class - I

Evaluator's Names: CHRISTINE Keller
TONY Kovacic
Josh Saunders

KOP-10
Tule Alt (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	
Resource Area	
Activity (program)	

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule - 138kV T/L Alt. Rt. 3	KOP-10 - Ribbonwood Rd	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/EIR Figure D.3-15A and D.3-15C)

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	
	LINE	Same as KOP 10 Tule Wind Turbines
	COLOR	(See Previous) Contrast Rating Worksheet
	TEXTURE	
3. STRUCTURES	FORM	
	LINE	
	COLOR	
	TEXTURE	

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 10
(Title Alt)
(b)

1. LAND WATER	FORM	None
	LINE	None
	COLOR	None
	TEXTURE	None
2. VEGETATION	FORM	None
	LINE	Some light banding (veg/soil edge) from access roads
	COLOR	None
	TEXTURE	None
3. STRUCTURES	FORM	Slender, Vertical Form - Scale diminished by Wind Turbines
	LINE	Horizontal lines (Conductors)
	COLOR	Brown : Grey Tones
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	VEGETATION (2) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	STRUCTURES (3) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	0	12	8 ✓	4	0	12	X	4 ✓	0 ✓
	Line (3x)	9	6	3	0	9	6 ✓	3	0	9	6	3	0 ✓
	Color (2x)	6	4	2	0	6	4 ✓	2	0	6	4	2	0 ✓
	Texture (1x)	3	2	1	0	3	2 ✓	1	0	3	2	1	0 ✓
TOTALS													

1a. Maximum element feature
138kV T/L Structures

b. Maximum feature contrast
Strong - Form, Line

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) Arlene A. Fell Date 4/15/2010

O = Gen-Tie Rt. 3 OH
✓ = Gen-Tie Rt. 3 UG

KOP 10
Tule Alt (c)

Comments:

KOP: 10 Ribbonwood Rd.

Project Features Evaluated: Rt. 3 - 138kV T/L Alt.

Simulations Available: ✓
* Simulation Does Not Show Visual Change Where Adjacent to Homes on Ribbonwood Rd. Only More distant views are shown.

Simulations Not Available:

Visual Factors Considered Important:

* Rt. 3 will create skylined, open, long views of 138kV T/L within FG/MG Distance Zone
* Visual Contrast of 138kV TRANSMISSION Structures and Conductors will be strongest adj. to homes on Ribbonwood Rd. : where long views cut across existing landscape settings.

Mitigation Measures yes - Underground (Alt.)

Impact Class - Class I

Evaluator's Names: CHRISTINE Keller, TONY KOVACIC
Josh Saunders

KOP11
(Tule) (a)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT **VISUAL CONTRAST RATING WORKSHEET**	**Date** 4/15/2010
	District
	Resource Area
	Activity (program)

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule Wind Turbines; 138kV T/L	KOP11 - McCain V.R. / I-8	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	
			EIS/EIR Figures P. 3 - 16A, -16B, -16C

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat to Slightly Sloping - Hills in background
	LINE	Very Diffused / Irregular Lines
	COLOR	Lt. Tan Soils w Some Rock Boulders (Lt. Tan)
	TEXTURE	Coarse (Rocks) to Medium Grains
2. VEGETATION	FORM	Low Profile Desert Shrubs and grasses -
	LINE	Diffused, Clumpy, Irregular, Road - Banded Edge
	COLOR	Muted Natural Greens & Greys & Browns
	TEXTURE	Patchy & Clumpy
3. STRUCTURES	FORM	Vertical (Utility Line), Horizontal Band (Mc Cain Valley Rd)
	LINE	Silhouette (Utility Poles), Dark, Vertical
	COLOR	Brown
	TEXTURE	Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 11
(Tule) (6)

1. LAND WATER	FORM	No visible change
	LINE	
	COLOR	
	TEX-TURE	
2. VEGETATION	FORM	No visible change
	LINE	Some irregular, curves / bends @ veg/soil edges (T/L access)
	COLOR	No change
	TEX-TURE	Increased smoothness - at pole site / access roads for T/L
3. STRUCTURES	FORM	Wind Turbines - Bold, Dominant (Scale & Height) multiple st. 138kV T/L - Co-Dominant (Height - prox. to viewers, Long Views)
	LINE	Wind Turbines - Vertical, Geometric, Triangular (Movement of Blades) 138kV T/L - Vertical & Horizontal
	COLOR	Wind Turbines - Bright Light Colors (Off White, Lt. Greys) 138kV T/L - Brown & Grey Tones
	TEX-TURE	Wind Turbines - Smooth 138kV T/L - Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0)	12	8	4	(0)	(12) ✓	8	4	0
	Line (3x)	9	6	3	(0)	9	6	(3)	0	(9) ✓	6	3	0
	Color (2x)	6	4	2	(0)	6	4	2	(0)	6 ✓	(4)	2	0
	Texture (1x)	3	2	1	(0)	3 ✓	2	(1)	0	3 ✓	(2)	1	0
TOTALS		N/A				N/A				N/A			

1a. Maximum element feature: Wind Turbines

b. Maximum feature contrast: Strong - Form, Line, Color

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature] Date 4/15/2010

O = 138kV T/L
V = Wind Turbines

KOP 11
(Tule) (c)

Comments:

KOP: KOP11 - McCain Valley Road Mesa/North of Interstate 8

Project Features Evaluated:
Tule Wind Turbines
Tule 138kV Transmission Line

Simulations Available: ✓
two separate simulations, viewpoints combined due to close proximity to each other (within 0.5 mile)

Simulations Not Available:
lighting conditions for Tule (Wind Turbines) are not typical. Increased contrasts would normally occur.

Visual Factors Considered Important:
- Wind Turbines - Very Strong Contrasts - Under typical, sunny conditions (Scale/Form/Movement) (Color)
- 138kV T/L - Contrasts will be strong due to FG views, long views, skylining, but diminished by Sunrise & Wind Turbines

Other Cummulative Projects Seen:
* Sunrise 500 kV T/L (Adjacent to McCain Valley Road)

Mitigation Measures yes - Underground (Ref. 138kV T/L

Impact Class - (Wind Turbines) - Class I, 138kV T/L - Class I

Evaluator's Names: Christine Keller
Tony Kovacic, Josh Saunders

KOP 12
(Tule) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	7/15/2010
District	California Desert
Resource Area	El Centro F.O.
Activity (program)	

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule - Wind Turbines & 138KV T/L	KOP 12 - BLM Land entrance @ S/McCain Valley Road	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	(S/S/R Figures) D.3 - 17A, -17B, 17C

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat to Slightly Sloping
	LINE	Banded (McCain Valley Rd.)
	COLOR	Lt. Tan Soil / Grey Asphalt
	TEXTURE	Smooth to Medium Grain (Fine Along Road)
2. VEGETATION	FORM	Low Profile grasses & shrubs; Medium profile trees (Pinyon - Juniper)
	LINE	Diffused
	COLOR	Light to Dark Tan grasses/shrubs; Dark green trees (evergreens)
	TEXTURE	Clumps, Fine Vertical lines
3. STRUCTURES	FORM	Rectangular signs, vertical posts
	LINE	Geometric, Diagonal strips
	COLOR	Browns, tans, yellow & black
	TEXTURE	Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 12
(Tule) (b)

1. LAND WATER	FORM	No visible changes from KOP
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	Some veg. clearing for T/L structures - tree removal possible
	LINE	Same as above - increased veg/soil edge contrasts possible
	COLOR	Some increase in soil exposure at T/L sites (increased tans)
	TEXTURE	Increase in Smooth Textures (from coarse or medium grain)
3. STRUCTURES	FORM	Wind turbines - Vertical, Bold Forms 138KV T/L - Vertical, Scale enhanced by proximity to viewers.
	LINE	Wind turbines - Vertical & Geometric (poles & blades) 138KV T/L - Horizontal (conductors) Vertical (poles)
	COLOR	Wind turbines - Bright light Color (off white/grey) Red FAA lights 138KV T/L - Brown earth tones
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		LAND/WATER BODY (1) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	VEGETATION (2) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	STRUCTURES (3) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0) ✓	12	8	4 ✓	(0)	(12)	8	4	0
	Line (3x)	9	6	3	(0) ✓	9	6	3 ✓	(0)	(9)	6 ✓	3	0
	Color (2x)	6	4	2	(0) ✓	6	4	2 ✓	(0)	(6)	4 ✓	2	0
	Texture (1x)	3	2	1	(0) ✓	3	2	1 ✓	(0)	(3)	2 ✓	1	0
TOTALS													

1a. Maximum element feature
Wind Turbines

b. Maximum feature contrast
Strong - L, F, C, T

2. Does project design meet visual resource management requirements? ☒ Yes ☐ No Class IV

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature]

Date 4/15/2010

O = Wind turbines
V = 138KV T/L

KOP 12
(Tule) (C)

Comments:

KOP: 12 McCain Valley Road at BLM lands entrance

Project Features Evaluated: Tule (Wind Turbines)
138 kV Transmission Line

Simulations Available: yes - Wind Turbines

Simulations Not Available: No sim available for 138 kV T/L

Visual Factors Considered Important:

- Slightly Superior View Angle
  used for Simulation (to the North)
- Normal to Slightly Superior View Angle
  is Typical to the West
- Open, Skylined Views to Wind Turbines;
  T/L, within FG/MG Distance Zone

Other Project Components Seen: Ø
Project Alt's Seen: Rough Acres Ranch Site
138 kV T/L - Rt. 3
Cumulative Projects Seen: Sunrise 500kV T/L

Mitigation Measures T/L - underground (alt).

Impact Classes: Wind Turbines - Class I, 138kV T/L - Class I

Evaluator's Names: CHRISTINE KELLER
TONY KOVACIC, Josh Saunders

KOP12
(Tule)(Alt) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	California Desert
Resource Area	El Centro F.O.
Activity (program)	

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule-Alt - Rough Acres: T/L Rt. 3	KOP12 - BLM land entrance @ McCain Valley Road	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	FIS/EIR Figures D.3- 17A, -17B, -17D

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	
	LINE	SAME AS KOP 12 - Proposed Project
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	
	LINE	SAME AS KOP 12 - Proposed Project
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	Distribution lines - Vertical form Rough Acres Ranch - Rectangular forms (buildings) Low Profile
	LINE	Vertical (Tall) - Distribution Horizontal/Rectangular - Ranch Structures
	COLOR	Distribution lines - Browns/Grays Ranch Structures - Lt. Tans/Off White
	TEXTURE	Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 12
(Tule Alt) (6)

1. LAND WATER	FORM	NO visible/evident changes from KOP
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	Increased Soil/Veg (Clearings) - Potential geometric form (trans)
	LINE	Increased straight lines from veg clearings (Ranch)
	COLOR	Increased TANS at clearings (soil/veg) edges.
	TEXTURE	Increased Fine Grains
3. STRUCTURES	FORM	Rough Acres Ranch - Substation - geometric rectangular form 138 kV T/L - Vertical, slender - Tall to Moderate Scale
	LINE	Rough Acres Ranch Sub: Low Profile vertical & horizontal 138kV T/L - Vertical
	COLOR	Substation - Grey Tones T/L - Brown & Grey Tones
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	VEGETATION (2) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	STRUCTURES (3) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	0 X	12	8 X	4	0	12	8	4 X	0
	Line (3x)	9	6	3	0 X	9	6 X	3	0	9	6	3	0
	Color (2x)	6	4	2	0 X	6	4 X	2	0	6	4	2	0
	Texture (1x)	3	2	1	0 X	3	2 X	1	0	3	2	1	0
TOTALS													

1a. Maximum element feature: Substation & T/L Structures

b. Maximum feature/contrast: Strong - Form

2. Does project design meet visual resource management requirements? ☒ Yes ☐ No (Class II - T/L)

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*): [signature] Date 4/15/2010

O = Rough Acres Substation Site
V = Alt - Rt. 30 for 138 kV T/L
X = Alt - Rt. 3 UE for 138 kV T/L

KOP 12
(Tule Alt) (c)

Comments:

KOP: KOP 12 - Rough Acres Ranch Alt Substation Site & Alt. Rt. 3 for 138 kV T/L

Project Features Evaluated:

Simulations Available: Ø

Simulations Not Available: ✓

Visual Factors Considered Important:

* Rough Acres Ranch Substation will replace site w/ Ranch Structures - Similar scale, Form. Substation will be backscreened by hills from KOP
* Rt. 3 Alt. for 138kV T/L will be visible (Alt) across the valley/plain (slightly elevated views). Numerous structures & conductors will be seen

Other Cumulative Projects Seen:
Potential Wind Farm Developments to West

Mitigation Measures: Substation - Fencing / Landscape Screening
T/L - Underground Alt.

Evaluator's Names: CHRISTINE KELLER
TONY KOVACIC
JOSH SAUNDERS

KOP 13
(Tule) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	California Desert
Resource Area	781 Central F.O.
Activity (program)	

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule - Wind Turbines	KOP 13 - Lark Canyon	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	OHV Staging Area EIS/EIR Figures D.3-18A and D.3-18B

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Hilly / Rolling w/ Flat Foreground Valley
	LINE	Curving (Rock Boulders), Bands - Dirt Roads / Trails
	COLOR	Light Tan Soils, Light Tan Boulders (Large)
	TEXTURE	Mottled - Smooth w/ Coarse Veg. & Rock Boulders
2. VEGETATION	FORM	Low Profile Shrubs - Diffused forms
	LINE	Diffused w/ Straight lines at soil/veg edges at trails (Horizontal & Vertical)
	COLOR	Dark to Moderate Natural Green Tone w/ Tan grasses low shrubs
	TEXTURE	Moderate Grain, Clumpy
3. STRUCTURES	FORM	BLM Signs - Rectangular, Vertical, Geometric
	LINE	Geometric, diagonal, vertical, horizontal
	COLOR	Earth Tones - Brown Other Colors - Blue, Green, Red, White
	TEXTURE	Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP13
(Tule) (6)

1. LAND WATER	FORM	No Change Visible From KOP
	LINE	
	COLOR	
	TEX-TURE	
2. VEGETATION	FORM	No Change Visible From KOP
	LINE	
	COLOR	
	TEX-TURE	
3. STRUCTURES	FORM	Bold, dominant vertical forms (Scale), geometric
	LINE	Vertical, diagonal, moving blades
	COLOR	Bright, off white, with FAA required Red lights
	TEX-TURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		LAND/WATER BODY (1) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	VEGETATION (2) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	STRUCTURES (3) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0)	12	8	4	(0)	(12)	8	4	0
	Line (3x)	9	6	3	(0)	9	6	3	(0)	(9)	6	3	0
	Color (2x)	6	4	2	(0)	6	4	2	(0)	(6)	4	2	0
	Texture (1x)	3	2	1	(0)	3	2	1	(0)	(3)	2	1	0
TOTALS													

1a. Maximum element feature
Wind Turbines

b. Maximum feature contrast
Strong - Form, Line, Color, Texture

2. Does project design meet visual resource management requirements? ☒ Yes ☐ No Class III
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature]

Date 4/15/2010

KOP 13
(Tule) (c)

Comments:

KOP: 13 Lark Canyon OHV Staging Area

Project Features Evaluated: Proposed Tule Wind Turbines

Simulations Available: yes

Simulations Not Available:

Visual Factors Considered Important:

*

Mitigation Measures None available

Evaluator's Names: Christine Keller, Tony Kovacic, Josh Saunders

KOP 14
(Tule)(a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	California Desert
Resource Area	El Centro F.O.
Activity (program)	

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule - Wind Turbines	KOP 14 - (Carrizo Overlook	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	
			EIS/EIR Figures D.3 - 19A and D.3-19B

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Rolling terrain, undulating forms
	LINE	Diffused, undefined lines
	COLOR	Tan Soils (dispersed exposure) Lt. rock boulders (strewn pattern)
	TEXTURE	Varied - Smooth (Soils), Chunky (Rock Boulders)
2. VEGETATION	FORM	Low Profile Shrubs - undefined edges, broad clusters & pattern.
	LINE	Diffused
	COLOR	Natural muted green & tan/brown tones.
	TEXTURE	Clumpy, dense clumps, some stippling pattern/texture.
3. STRUCTURES	FORM	Existing Wind Turbines (MG) - Tall / Prominent Vertical & Geometric Forms
	LINE	Vertical lines, diagonal / triangular forms, blade movement
	COLOR	Bright - Off White / Lt. Grey
	TEXTURE	Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 14
(Tule) (b)

1. LAND WATER	FORM	
	LINE	No Visual Changes from KOP
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	
	LINE	No Visible Changes from KOP
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	-Tule Turbines) - Some/Similar form, however Scale is 2+3 Times Larger (Proximity)
	LINE	Tule Turbines - Some/Similar lines as existing turbines (More Distinct Due to Proximity)
	COLOR	Some as Existing Turbines (or Similar) Bright, Off White/ FAA Required Red Lights; Lt. Grey
	TEXTURE	Smooth - Some as existing turbines

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	VEGETATION (2) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	STRUCTURES (3) Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0)	12	8	4	(0)	(12)	8	4	0
	Line (3x)	9	6	3	(0)	9	6	3	(0)	(9)	6	3	0
	Color (2x)	6	4	2	(0)	6	4	2	(0)	(6)	4	2	0
	Texture (1x)	3	2	1	(0)	3	2	1	(0)	(3)	2	1	0
TOTALS													

1a. Maximum element feature: Wind Turbines

b. Maximum feature contrast: Strong - Form/Scale

2. Does project design meet visual resource management requirements? ☒ Yes ☐ No (Class IV)

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature]

Date 4/15/2010

KOP 14
(Tule) (c)

Comments:

KOP: 14 (Barrio Overlook

Project Features Evaluated: Tule - Proposed

Simulations Available: yes

Simulations Not Available: Ø

Visual Factors Considered Important:

The strong contrasts are related to the FG/MG viewing distance zone to at least 5 turbines). Proximity of turbines to Overlook create very bold, dominant forms with blade movement & Red lights contributing to contrast. Turbines will dominate visual landscape.

Other Project Elements Seen:
Proposed Collector Substation & T/L
Not Shown in Simulations.

Mitigation Measures None Available

Impact Class: Class I

Evaluator's Names: CHRISTINE KELLER, TONY KOVACIC
JOSH SAUNDERS

Cumulative Projects: Regional Wind Developments - to the West

KOP 15
(Tule) (a)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT **VISUAL CONTRAST RATING WORKSHEET**	**Date** 4/15/2010 **District** **Resource Area** **Activity (program)**

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule - Proposed 138kV T/L ; 700 (alt)	KOP15 - Old Hwy 80 W	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	E15/EIR Figures D.3-20A and D.3-20B

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat
	LINE	Diffused, little variation
	COLOR	TAN (Soil)
	TEXTURE	Not Evident
2. VEGETATION	FORM	Mainly desert shrubs - low/mod. profile/height. Taller landscape/trees - South of Road.
	LINE	Banded - Highway 80; Diagonal
	COLOR	Natural muted green/greys. Trees - Darker, Saturated Green
	TEXTURE	Medium to Fine Grains
3. STRUCTURES	FORM	Distribution line - Vertical slender form
	LINE	poles - vertical, lines - horizontal
	COLOR	Brown & grey tones
	TEXTURE	Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 15
(Tule) (b)

1. LAND WATER	FORM	
	LINE	No evident visual changes
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	
	LINE	No evident visual changes
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	Vertical, slender form, prominent scale; 4 Cross-arms
	LINE	vertical - structures; horizontal - conductors; lines
	COLOR	Browns, greys
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	0	12	8	4	0	12	8	4	0
	Line (3x)	9	6	3	0	9	6	3	0	9	6	3	0
	Color (2x)	6	4	2	0	6	4	2	0	6	4	2	0
	Texture (1x)	3	2	1	0	3	2	1	0	3	2	1	0
TOTALS													

1a. Maximum element feature: 138 kV Structure

b. Maximum feature contrast: Strong - Form & Line

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature]

Date 4/15/2010

KOP 15
(Tule) (c)

Comments:

KOP: 15 Old Hwy 80 - Westbound

Project Features Evaluated: 138kV T/L with Distribution underbuilt

Simulations Available: yes

Simulations Not Available: ø

Visual Factors Considered Important:

* T/L parallel and adjacent to highway:
  - Long views (multiple structures)
  - FG Distance Zone
  - Prominent Scale (Height)

Mitigation Measures underground alt.

Impact Class - CLASS I

Evaluator's Names: CHRISTINE Keller, TONY Kovacic
Josh Saunders

KOP 15 (Tule Alts) (a.)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date 4/15/2010
District
Resource Area
Activity (program)

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule - 138 kV Underground Alt's	KOP 15-Old Hwy 80 W	

4a. Location and Orientation			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	
			Y15/E1R Figures D.3-20A, -20C, and -20D

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	
	LINE	Same as KOP 15 (Tule P.P.)
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	
	LINE	Same as KOP 15 (Tule P.P.)
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	
	LINE	Same As KOP 15 (Tule P.P.)
	COLOR	
	TEXTURE	

SECTION C. PROPOSED ACTIVITY DESCRIPTION
(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 15 (Tule Alts) (D)

1. LAND WATER	FORM	No visual changes expected (no simulations)
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	No visual changes expected.
	LINE	Increased veg/soil edge contrasts at/to trench ROW.
	COLOR	Increased tan/soil color along ROW/vegetation removal
	TEXTURE	Increased smooth/fine grains
3. STRUCTURES	FORM	None - Vaults not expected to be visible
	LINE	None
	COLOR	None
	TEXTURE	None

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		LAND/WATER BODY (1) Strong (3x)	LAND/WATER BODY (1) Moderate (2x)	LAND/WATER BODY (1) Weak (1x)	LAND/WATER BODY (1) None (0x)	VEGETATION (2) Strong (3x)	VEGETATION (2) Moderate (2x)	VEGETATION (2) Weak (1x)	VEGETATION (2) None (0x)	STRUCTURES (3) Strong (3x)	STRUCTURES (3) Moderate (2x)	STRUCTURES (3) Weak (1x)	STRUCTURES (3) None (0x)
Elements	Form (4x)	12	8	4	0	12	8	4	0	12	8	4	0
	Line (3x)	9	6	3	0	9	6	3	0	9	6	3	0
	Color (2x)	6	4	2	0	6	4	2	0	6	4	2	0
	Texture (1x)	3	2	1	0	3	2	1	0	3	2	1	0
TOTALS													

1a. Maximum element feature: Underground ROW

b. Maximum feature contrast: Moderate - Line, Color, Texture

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations and list in section E.

Evaluator (*signature*) [signature] Date 4/15/2010

O = Tule Gen Tie Rt. 2 + 3 UG 138 kV Alts

V = Tule Gen-Tie Rt. 2 + 3 OH 138 kV Alts

*Note: Tule Gen Tie Rt. 2 Alts - see Figure D.3-20C

Tule Gen Tie Rt. 3 Alts - see Figure D.3-20D

KOP 15
(Tule Alts)(C)

Comments:

KOP: 15 Old Highway 80 Westbound

Project Features Evaluated: Tule Underground Alternatives and Overhead

Simulations Available:

Simulations Not Available: ✓

Visual Factors Considered Important:

* Underground Trench Would Be Set Back from Highway (ROW would not be seen)

Tule Overhead Alts: Class I
Tule Rt. 2 Underground Alt: Class II
Tule Rt. 3 Underground Alt: Class I

Mitigation Measures - ROW Vegetation Restoration - Bio Measure

Evaluator's Names: Christine Keller, Josh Saunders
Tony Kovacic

(Tule) (a)
KOP16

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	
Resource Area	
Activity (program)	

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule - Wind Turbines	KOP16 - BLM Lands near	
4a. Location	**b. LOCATION MAP** In-Ko-Pah ACEC	
TOWNSHIP / RANGE / SECTION	EIS/EIR figure D.3-21A and D.3-21B	

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat to Slightly Rolling / Sloping
	LINE	Horizontal
	COLOR	Tans, browns
	TEX-TURE	Coarse (boulders) to smoother (exposed soils)
2. VEGETATION	FORM	Low profile shrubs (primarily)
	LINE	Clumpy and irregular
	COLOR	muted greens and browns
	TEX-TURE	patchy to dense
3. STRUCTURES	FORM	no evidence (from orientation)
	LINE	no evidence (from orientation)
	COLOR	no evidence (from orientation)
	TEX-TURE	no evidence (from orientation

(Title)(b)

KOP 16

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

1. LAND WATER	FORM	Moderate landform changes - grading for access roads + turbine ~~foundations~~ foundations
	LINE	Increased line elements - access roads
	COLOR	Increased color contrast due to vegetation removal
	TEXTURE	Linear (moderate change)
2. VEGETATION	FORM	Linear forms created by surface disturbances
	LINE	Irregular due to access road construction, turbine pad foundation construction
	COLOR	Brown, tan natural colors (exposed soils - grading)
	TEXTURE	Patchy
3. STRUCTURES	FORM	Bold, dominant vertical form - geometric
	LINE	Vertical, diagonal moving blades
	COLOR	Bright, off-white, with FAA required red lights (obstruction)
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☐ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	(8)	4	0	12	(8)	4	0	(12)	8	4	0
	Line (3x)	9	(6)	3	0	9	(6)	3	0	(9)	6	3	0
	Color (2x)	6	(4)	2	0	6	(4)	2	0	(6)	4	2	0
	Texture (1x)	3	(2)	1	0	3	(2)	1	0	(3)	2	1	0
TOTALS													

1a. Maximum element feature

Wind turbines

b. Maximum feature contrast

Strong - form, line, color, texture

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Although KOP located on BLM lands wind turbines located on County of San Diego lands

Evaluator (*signature*) Jack B. Jr

Date 4/15/2010

KOP 16
(Tule Alt)(a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	California Desert
Resource Area	Ridgecrest F.O
Activity (program)	

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule - Turbine Reduction Alt.	KOP 16 - c BLM Lands near In-Ko-Pah ACEC	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	
			E15/E1c Figure D. 3-21A and D. 3-21C

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat to Rolling Terrain w/ Numerous Strewn Boulders
	LINE	Undulating, Horizontal
	COLOR	Lt. Tan
	TEXTURE	Course (Boulders) to Medium Grain
2. VEGETATION	FORM	Low Profile shrubs: grasses - masses w/ undefined boundaries
	LINE	Diffused
	COLOR	Green, Grey, & Brown / Tan Natural Colors (Muted)
	TEXTURE	Clumpy
3. STRUCTURES	FORM	N/A
	LINE	N/A
	COLOR	N/A
	TEXTURE	N/A

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 16
(Tule Alt)(b)

1. LAND WATER	FORM	
	LINE	No changes to visual environment anticipated
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	
	LINE	No changes to visual environment anticipated
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	
	LINE	
	COLOR	
	TEXTURE	

SECTION D. CONTRAST RATING ☐ SHORT TERM ☐ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	0 ✓	12	8	4	0 ✓	12	8	4	0 ✓
	Line (3x)	9	6	3	0 ✓	9	6	3	0 ✓	9	6	3	0 ✓
	Color (2x)	6	4	2	0 ✓	6	4	2	0 ✓	6	4	2	0 ✓
	Texture (1x)	3	2	1	0 ✓	3	2	1	0 ✓	3	2	1	0 ✓
TOTALS		N/A				N/A				N/A			

1a. Maximum element feature

b. Maximum feature contrast

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) Jule B-S

Date

See KOP 16 (Tule)(b)

KOP16
(Tule Alt.)(c)

Comments: BLM Lands near
KOP: 16 Ah-ka-Pah ACEC

Project Features Evaluated: Wind Turbines Under Reduced Turbine Alternative

Simulations Available:

Simulations Not Available: ✓

Visual Factors Considered Important:

under Tule Reduction in Turbines Alt area viewed from KOP location would remain undeveloped.

Mitigation Measures

Evaluator's Names:

KOP17 (Feedlot) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	N/A
Resource Area	N/A
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
PCo-138kV T/L - Hwy 80 Alts	KOP17 - Old Hwy 80 W	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	4/15/2010 Figures D.3-22A and D.3-22B

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat to Rolling Hills
	LINE	Diffused, Bordered Along Hwy edge
	COLOR	Light Tans to Browns
	TEXTURE	Smooth, with coarser rock textures - Boulders along highways; Strewn rock boulders
2. VEGETATION	FORM	Clumps (shrubs) to light transparent forms (grasses)
	LINE	Diffused, some curved & Vertical (short) line elements
	COLOR	greens, greys, brown tones (natural, muted)
	TEXTURE	Coarse to medium grains, Some light grains - grass areas
3. STRUCTURES	FORM	Distribution line - Moderately Bold, Horizontal & Vertical forms Rural Structures - rectangular forms low roofs w/dimensions
	LINE	Strong/Bold lines (horizontal distribution & telephone lines) (some straight lines - rural buildings)
	COLOR	Distribution Lines - Browns & grey tones, Rural Structures - light, off whites & tans.
	TEXTURE	Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 17
(No Alts) (6)

1. LAND WATER	FORM	UG Linear Rectangular Form (underground trench/ROW) OH - No visually evident Change expected
	LINE	UG Alt - Broken diagonal/horizontal line expected OH Alt No visually evident change expected.
	COLOR	UG Alt. - Increased tans - exposed soils OH Alt - No visually evident change expected.
	TEXTURE	UG Alt - Increased smoothness, fine grain elements OH Alt - No visually evident change expected.
2. VEGETATION	FORM	
	LINE	O.H. Alt — No evident change expected — U.G. Alt — Increased lines (broken) from soil/vegetals (ROW)
	COLOR	Increased Tans (soils) Decreased Greens (Veg)
	TEXTURE	Increased smooth texture
3. STRUCTURES	FORM	Similar form, increased scale/height — Distribution line (structure form) retained/eliminated
	LINE	O.H. Alt — Increased # of horizontal lines (conductors) — U.G. Alt — Distribution line (horizontal lines eliminated, vertical pole lines eliminated)
	COLOR	Similar brown tone (structures) Lighter grey (conductors) — Brown vertical structures & dark grey horizontal lines eliminated
	TEXTURE	Increased smooth texture — Smooth texture of distribution line eliminated

SECTION D. CONTRAST RATING ☐ SHORT TERM ☐ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4 V	(0)	12	8	4	0 V	(12)	8	4	0 V
	Line (3x)	9	6	3 V	(0)	9	6	3 V	(0)	9	6	(3)	0 V
	Color (2x)	6	4	2 V	(0)	6	4 V	2	(0)	6	(4)	2	0 V
	Texture (1x)	3	2	1 V	(0)	3	2	1 V	(0)	3	(2)	1	0 V
TOTALS		N/A		11		N/A		11		N/A		11	

1a. Maximum element feature

b. Maximum feature contrast

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) Steve G. Lee — Date

O = Overhead 138kV T/L (OH)

V = Underground 138kV T/L & Distribution Line (U.G.)

KOP 17
(Rio Alts) (c)

Comments:

KOP: 17 - Old Hwy 80 Westbound

Project Features Evaluated: Rio –
(a) OH Alternative - 138kV T/L structures & lines w/ existing distribution/utility lines underbuilt
(b) UG Alternative - Existing structures & lines removed & buried w/ new) 138kV T/L

Simulations Available:

Simulations Not Available: ✓ None Available

Visual Factors Considered Important:

*O.H. Alternative - Would create strong contrasts in scale (form) & line due to increased height of 138kV T/L and extra height & cross arms required for distribution underbuild.
* Long Duration of Views from Residences & Highway Travelers
* Skylining of structures & lines due to proximity of viewers.

U.G. Alternative
* Beneficial Visual Effects due to the elimination of vertical structures & horizontal lines (Visual clutter improved)
* Elimination of existing skylining conditions
* Improvement of views/viewshed for residents & Hwy travelers.

Mitigation Measures U.G. - Vegetation/ROW Restoration (see Bid)

Impact Classes) -OH 138kV Alt - Class I; UG 138kV Alt - Class ~~IV~~ II (as viewed from KOP 17)

Evaluator's Names: CHRISTINE KELLEK
TONY KOVACIC
Josh Saunders

KOP 18
(ECO) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date 4/14/2016
District California Desert
Resource Area El Centro F.O.
Activity (program)

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
ECO-East Co. Substation & 138 kV TL	KOP 18 - Table Mt. ACEC	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	
			SIS/EIR Figures D.3-23A and D.3-23B

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Combination valley/plain; Moderate Sloped Hills, Jagged Mts (BKGD)
	LINE	horizontal & diagonal lines I-8 & dirt roads create diagonal & horizontal bands
	COLOR	Light tans & browns; light rock outcroppings/boulders on mts.
	TEXTURE	Smooth to coarse
2. VEGETATION	FORM	simple, homogeneous forms/patterns (shrubs)
	LINE	diffused; lines noticeable only at veg/soil edges
	COLOR	green/grey-tones (muted)
	TEXTURE	stippled pattern, regular/consistent/homogeneous
3. STRUCTURES	FORM	(Communication facilities) - sky lined, vertical/geometric forms I-8 - horizontal banding form. SWPL - Bands visible (backscreened)
	LINE	vertical/slopes - comm. facilities horizontal - I-8 and other dirt roads geometric - SWPL lattice structures
	COLOR	I-8, Dirt Roads - Lt. tan bands & grey band SWPL - Medium grey, semi-transparent color
	TEXTURE	Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP 18
(FCo)(6)

1. LAND WATER	FORM	Rectangular forms - Fort Courtz Substation - grading plan
	LINE	Increased line Patterns - Gen-Tie & 138kV T/L Access Rds
	COLOR	Similar neutral earth tones
	TEXTURE	Smooth, increased contrast w/ natural texture
2. VEGETATION	FORM	Similar forms long-term (FCo Substation landscaping plan)
	LINE	Increased lines - veg/soil edges at Substation & at T/L structure locations
	COLOR	Similar vegetation colors (long-term veg restoration at Substation Site and Pole Sites)
	TEXTURE	Smooth, increased contrasts
3. STRUCTURES	FORM	Geometric, intricate forms (Sub, & 500kV Lattice Structures)
	LINE	Diffused, semi-transparent against natural desert colors/patterns
	COLOR	Neutral grey & brown tones
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	(8)	4	0	12	8	(4)	0	12	(8)	4	0
	Line (3x)	9	(6)	3	0	9	6	(3)	0	9	(6)	3	0
	Color (2x)	6	(4)	2	0	6	4	(2)	0	6	(4)	2	0
	Texture (1x)	3	(2)	1	0	3	2	(1)	0	3	(2)	1	0
TOTALS													

1a. Maximum element feature: FCo Substation & Loop-Dr

b. Maximum feature contrast: Moderate - F, L, C, T

2. Does project design meet visual resource management requirements? ☒ Yes ☐ No / 138kV (Class III)
If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*): Victoria C. Lee — Date: 4/14/2010

O = FCo East Co. Substation & Loop-Dr

V = FCo 138kV T/L

KOP 18
(ECO) (c)

Comments:

KOP: 18 Table Mt. ACEC (BLM VRM Class II Area)

Project Features Evaluated: ECO Substation + Loop-In (Private Lands)
138KV T/L (Private Lands + BLM VRM Class III Lands

Simulations Available:

Simulations Not Available: ✓
- Other Project Elements Seen:
  EST Wind Turbines + Gen-Tie
- Other Cummulative Project Seen: Sunrise 500KV T/L

Visual Factors Considered Important:
* Superior Viewing Position
* Middleground Viewing Distance
* ECO Facilities will be backscreened by desert landscape terrain + Vegetation
* ECO Substation - will be visible from elevated KOP location, however. (Large Scale / Neutral Colors)
* Access Roads will create linear elements, however, similar elements (e.g. I-8 dirt roads) already have introduced these visual components
* Lattice structures will be effectively screened by landscape patterns
* 138KV Poles + Conductors will not be prominent in scale or other contrast elements.

Mitigation Measures - No Add. Measures (Non-reflective materials will be required)

Impact Classes - ECO Sub / Loop-In: Class II; 138KV T/L (Class III)

Evaluator's Names: CHRIS KELLER
TONI KOVACH
JOSH SAUNDERS

Note: VRM Class Designations Apply Only to 138KV T/L
Other Project Facilities are located on Private (non-BLM) Lands

KOP 18
(TST-) (a)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/14/2010
District	Palm Springs Desert
Resource Area	Del Centro
Activity (program)	

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
TST-Wind Turbines, Gen-Tie & Structures	18 Table Mt. ACEC	

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	Y15/Y1R Figure) P. 3-23A and D.3-23B

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	
	LINE	Same As KOP 18 (ECO)
	COLOR	See Contrast Worksheet for Description
	TEXTURE	
3. STRUCTURES	FORM	
	LINE	
	COLOR	
	TEXTURE	

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

KOP18

		EST - Wind Turbines	EST - Gen-Tie & Structure Alternatives (155) (6)
1. LAND WATER	FORM	No visual change	No visual change
	LINE	No visual change	No visual change
	COLOR	No visual change	No visual change
	TEXTURE	No visual change	No visual change
2. VEGETATION	FORM	No visual change	Access roads and structure sites - (Linear, narrow rectangular form)
	LINE	No visual change	Perpendicular, horizontal & diagonal lines (irregular) for access roads (curving)
	COLOR	No visual change	Lt. tan/darker green grays at ves (both edges)
	TEXTURE	No visual change	Smooth texture (soil exposure, grasses, shrubs)
3. STRUCTURES	FORM	Bold, large scale forms (Geometric)	Geometric, intricate forms (230kV & 500kV)
	LINE	Vertical Poles, Diagonal Blades Movement	Semi-transparent, diffused - lattice Solid vertical lines - single pole struc
	COLOR	Bright (All Whites) & (FAA. Lts) Light Grays	grays - lattice Brown to grey - single poles
	TEXTURE	Smooth	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	0	12	8	4	0	12	8	4	0
	Line (3x)	9	6	3	0	9	6	3	0	9	6	3	0
	Color (2x)	6	4	2	0	6	4	2	0	6	4	2	0
	Texture (1x)	3	2	1	0	3	2	1	0	3	2	1	0
TOTALS													

1a. Maximum element feature: EST Wind Turbines

b. Maximum feature contrast: Strong - Form, Line, Color

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A *

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*): Elaine A. Lee — Date: 4/14/2010

O = Wind Turbines

V = Gen-Tie Lines & Structures (all Alts)

* VRM Consistency does not apply as facilities would not be located on BLM lands

KOP 18
(TSJ) (c)

Comments:

KOP: 18 - Table Mt. ACEC (BLM VRM Class II Area)

Project Features Evaluated:
TSJ - Wind Turbines)
TSJ - Gen-Tie - Structures, lines, Alt. Designs)

Simulations Available: ✓ (500kV Lattice Gen-Tie Design; Wind Turbines)

Simulations Not Available: (No simulation for Total PROJECT - TSJ & TCO)

Other PROJECT FEATURES SEEN: TCO Last Co. Substation; TCO loop-in 138kV T/L

Other Cumulative Projects Seen: Sunrise 500kV T/L

Visual Factors Considered Important:
* KOP has Superior View Angle
* Middleground Distance Zone
* TSJ Wind Turbines - On Prominent Ridgeline & Skylined
* TSJ Gen-Tie - Will be partially screened by TCO Substation & Desert hardscape (Backscreen)
* Access Roads - Will be evident (veg/soil) Contrasts Similar horizontal & Diagonal line elements already present (I-8, SWPL Access roads)
* Wind Turbines - Will create very bold element with movements and night lighting (will be dominant feature)

Mitigation Measures (Wind Turbines) - No Add. measures Available/Necessary

Impact Classes: TSJ Wind Turbines - Class I
TSJ Gen Tie line & Structure - Class II

Evaluator's Names: CHRIS Keller
Tom Kovacic
Josh Saunders

KOP 19

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date 4/14/2010
District
Resource Area
Activity (program) N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Campo and Jordan Wind	KOP 19 - I-8 Eastbound	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/ Figure D.3-24A, D.3-24B EIR

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat/rolling hills with mountains in background
	LINE	~~Diffusing~~ Diffused
	COLOR	Tans and muted green, grey and brown
	TEXTURE	Generally uniform with rocks/boulders
2. VEGETATION	FORM	low shrubs and trees, moderate cover
	LINE	Diffused
	COLOR	Green, grey, tan
	TEXTURE	Dotted and stippled at distance
3. STRUCTURES	FORM	Vertical poles (utility) and billboard (advertisement)
	LINE	Horizontal line from unpaved roadway
	COLOR	brown, dark (poles and billboard), tan (roadway)
	TEXTURE	Solid/saturation high

KOP 19

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

1. LAND WATER	FORM	none
	LINE	Access roads may create vegetation/soil bands (not seen in simulation)
	COLOR	none
	TEXTURE	none
2. VEGETATION	FORM	none
	LINE	↓
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	Bold, dominant forms (scale)
	LINE	Vertical geometric and triangular lines - movement of blades
	COLOR	Bright light color (light. grey, off-white) w/ red FAA night lighting
	TEXTURE	smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0)	12	8	4	(0)	(12)	8	4	0
	Line (3x)	9	6	(3)	0	9	6	3	(0)	(9)	6	3	0
	Color (2x)	6	4	2	(0)	6	4	2	(0)	(6)	4	2	0
	Texture (1x)	3	2	1	(0)	3	2	1	(0)	(3)	2	1	0
TOTALS													

1a. Maximum element feature

Wind turbines

b. Maximum feature contrast

Strong - form, line, color

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) Joshua B. Sanders

Date 4/15/2010

KOP 20

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/20
District	
Resource Area	
Activity (program)	

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Campo Jordan manzanita, Tule	KOP 20-Jewel Valley Road	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/Figure D.3-25A and D.3-25B EIR

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat to slightly rolling hills - distant mountains in background
	LINE	~~Diffused~~ Banded (Jewel Valley Road)
	COLOR	Lt. tan and brown (soil edges)
	TEX-TURE	Smooth to coarse (rock bolders)
2. VEGETATION	FORM	Desert shrubs (moderate/medium to low profile)
	LINE	Diffused, irregular
	COLOR	Muted greys, greens, and browns
	TEX-TURE	Patchy and clumpy
3. STRUCTURES	FORM	Vertical (utility lines), horizontal (Jewel Valley Road)
	LINE	Banded - Jewel Valley Road
	COLOR	Utility poles - brown/grey ; roads - grey w/ lt. tan soil shoulders
	TEX-TURE	Predominantly smooth.

KOP 20

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

1. LAND WATER	FORM	none
	LINE	Some access roads may create veg/soil bands (not seen in simulation)
	COLOR	none
	TEXTURE	none
2. VEGETATION	FORM	none
	LINE	↓
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	Bold dominant forms (scale)
	LINE	Vertical, geometric, and triangular form (movement of blades)
	COLOR	Bright light color (lt. grey/off-white) with FAA night lighting (red)
	TEXTURE	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0)	12	8	4	(0)	(12)	8	4	0
	Line (3x)	9	6	(3)	0	9	6	3	(0)	(9)	6	3	0
	Color (2x)	6	4	2	(0)	6	4	2	(0)	(6)	4	2	0
	Texture (1x)	3	2	1	(0)	3	2	1	(0)	(3)	2	1	0
TOTALS													

1a. Maximum element feature: Wind Turbines

b. Maximum feature contrast: strong – form, line, color

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) Joshua B. Sanders Date 4/15/2010

KOP 21

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/14/2010
District	
Resource Area	
Activity (program)	N/A

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Manzanita, Jordan, Tule Wind Projects	KOP 21 - NB Ribbonwood Road	N/A

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS/EIR Figure D.3-26A and D.3-26B

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Flat to Slightly sloping hills - higher mountains in the background
	LINE	Banded - Ribbonwood Road travels N/S from KOP
	COLOR	Lt. tan soils w/distant rock boulders (lt. tan)
	TEXTURE	medium grains to coarse (rocks)
2. VEGETATION	FORM	medium profile desert shrubs, trees
	LINE	Road - banded edge, vegetation - regular to irregular
	COLOR	Natural greens, greys, tans, browns
	TEXTURE	uneven - denser in foreground, patchy in middleground
3. STRUCTURES	FORM	Horizontal Vertical - utility lines, horizontal band (Ribbonwood Road)
	LINE	Utility lines parallel + perpendicular to roadway Roadway - bold and continuous
	COLOR	Roadway - Dark grey, utility lines - dark black
	TEXTURE	Smooth.

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

1. LAND WATER	FORM	None
	LINE	Access roads may create veg/soil bared - not included in simulation
	COLOR	none
	TEXTURE	None
2. VEGETATION	FORM	None
	LINE	
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	Bold, dominant forms (scale) - wind turbines
	LINE	Vertical, geometric + triangular lines - movement of blades
	COLOR	Bright light color (lt. grey / off white) w/ red FAA night lighting
	TEXTURE	

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	(0)	12	8	4	(0)	(12)	8	4	0
	Line (3x)	9	6	(3)	0	9	6	3	(0)	(9)	6	3	0
	Color (2x)	6	4	2	(0)	6	4	2	(0)	(6)	4	2	0
	Texture (1x)	3	2	1	(0)	3	2	1	(0)	(3)	2	1	0
TOTALS													

1a. Maximum element feature: Wind turbines

b. Maximum feature contrast: Strong - form, line, color

2. Does project design meet visual resource management requirements? ☐ Yes ☐ No N/A

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature] Date 4/14/2010

KOP 22

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	4/15/2010
District	
Resource Area	
Activity (program)	

SECTION A. PROJECT INFORMATION

1. Project name	2. Critical viewpoint number	3. MFP Step III VRM class
Tule Wind, Jordan, Manzanita Projects	KOP-22 - Carrizo Overlook	IV

4a. Location			b. LOCATION MAP
TOWNSHIP	RANGE	SECTION	EIS / EIR Figure D.3-26A + D.3-26B

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

1. LAND WATER	FORM	Rolling hills, undulating forms
	LINE	Diffused, undefined lines
	COLOR	Tan soils (dispersed exposure) lt. rock boulders (stream pattern)
	TEXTURE	Varied - smooth (soils), and clunky (rock boulders)
2. VEGETATION	FORM	Low profile shrubs - undefined edges, broad clusters + pattern
	LINE	Diffused
	COLOR	Natural muted green and tan / brown tones
	TEXTURE	Clumpy, dense clumps, some stippling patterns / textures
3. STRUCTURES	FORM	Existing wind turbines in middleground views - tall prominent vertical forms
	LINE	Vertical lines, diagonal / triangle forms, blade movement
	COLOR	Bright-off white / Lt. grey
	TEXTURE	smooth

KOP 22

SECTION C. PROPOSED ACTIVITY DESCRIPTION

(Refer to BLM Manual Section 8131 for proposed descriptions and requirements)

1. LAND WATER	FORM	no visual change from KOP
	LINE	
	COLOR	
	TEXTURE	
2. VEGETATION	FORM	no visual/visible changes from KOP
	LINE	
	COLOR	
	TEXTURE	
3. STRUCTURES	FORM	Turbines - similar form as existing however larger scale due to proximity
	LINE	similar lines as existing but more distinct due to proximity
	COLOR	Same as existing but more pronounced due to proximity
	TEXTURE	smooth - same as existing turbines

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

DEGREE OF CONTRAST		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)	Strong (3x)	Moderate (2x)	Weak (1x)	None (0x)
Elements	Form (4x)	12	8	4	**0**	12	8	4	**0**	**12**	8	4	0
	Line (3x)	9	6	3	**0**	9	6	3	**0**	**9**	6	3	0
	Color (2x)	6	4	2	**0**	6	4	2	**0**	**6**	4	2	0
	Texture (1x)	3	2	1	**0**	3	2	1	**0**	**3**	2	1	0
TOTALS													

1a. Maximum element feature

Wind turbines

b. Maximum feature contrast

Strong - form/scale

2. Does project design meet visual resource management requirements? ☒ Yes ☐ No Class IV

If "no," (or if rating is over maximum allowable) redesign project in section E, concentrating on feature/element of greatest contrast. If contrast is acceptable, this does not prelude additional mitigating measures; propose as stipulations, and list in section E.

Evaluator (*signature*) [signature]

Date 4/15/2010