Appendix F

Key Observation Point Worksheets

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Form 8400-04
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**April 26, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

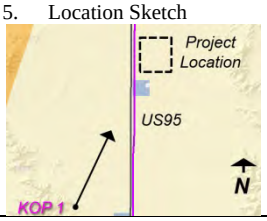
2. Key Observation Point
KOP-1 Access Road to Dome Rock Mountains

3. VRM Class
III

4. Location

Township T4N
Range R20W
Section 12

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG to MG : Flat with rolling terrain; rounded undulations BG: Rugged with numerous angular, rugged and bold mountain silhouettes, prominent	FG: Rounded and patchy, mottled BG: Amorphous	FG: None apparent BG: Weak geometric shapes
LINE	FG: Horizontal and undulating with digitate edges created by road cuts, curvilinear bands BG: Sweeping with strong horizon line and mountain silhouettes	FG: Irregular and vertical BG: some horizontal lines and edges along mountainous (bajada) terrain	FG: None apparent BG: Angular and geometric
COLOR	FG: Tans and browns with burnt sienna BG: Tans and browns with purple and blue hues caused by atmospheric/haze conditions	FG: Greens, olives, tans and browns BG: Dark greens and tans/browns	FG: None apparent BG: White, metallic, indescernable
TEX-TURE	FG: Relatively smooth; fine MG to BG: Fine to rough	FG: Medium and complex BG: Uniform and medium	FG: None apparent BG: Smooth, indescernable

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Simple geometric forms created by cut, fill, and/or roads	Simple geometric forms created by vegetation clearings	Vertical, tall, and ordered (tower) geometric, dense (array)
LINE	Weak edges created by cut, fill, and/or roads	Weak edges created by vegetation clearings for site elements or roads	Vertical, straight (tower) horizontal with subtle angles (array)
COLOR	Browns, tans, gray, burnt sienna, and red hues	Green and olive hues	Gray, tans, and reflective chroma
TEX-TURE	Smooth, regular	Patchy and random	Smooth, hard (tower) Moderate coarseness (array)

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1.

DEGREE OF CONTRAST		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form			X				X			X		
	Line		X					X			X		
	Color			X				X			X		
	Texture				X			X				X	

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 11, 2010

KOP 1 – Access Road to Dome Rock Mountains, facing northeast

Moderate contrast would result from construction and operation of the proposed project within a naturalistic project setting designated as VRM Class III. The construction of the project would result in substantial grading and the clearing of vegetation, but the modifications to landform and vegetation would result in weak project contrast as seen from this KOP. The proposed project structures would be seen from KOP 1 at a distance of approximately 10 miles and would be seen from a slightly superior viewing position. From this viewing position, the receiver tower and associated powerblock components, heliostat arrays, support buildings, and transmission lines would be seen increasing the contrast in the structure's form, line and color (with the glow of the receiver being most prominent) Due to the horizontal nature of the heliostat array and distance from the proposed project, however, overall impacts would be decreased. Overall impacts will be moderate.

Refer to Appendix G, Figure S-1 for simulation from this viewing location.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**June 4, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

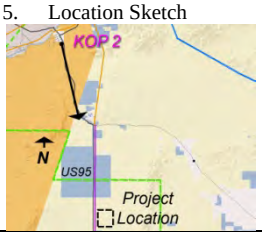
2. Key Observation Point
KOP-2 La Paz County Regional Hospital

3. VRM Class
III

4. Location

Township T9N
Range R20W
Section 12

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Relatively flat to undulating (in mid-ground) BG: Jagged, bold mountain silhouettes	FG: Mottled, patchy BG: sparse, uniform	FG: Geometric, boxy, horizontal, vertical BG: none discernable
LINE	FG: Horizontal BG: Sweeping and horizontal with strong horizon line; irregular mountain silhouettes	FG: irregular BG: Irregular	FG: Straight, horizontal, vertical; thin BG: none discernable
COLOR	FG: Tans and browns BG: Red and dark browns; tans	FG: Greens, tans and browns BG: Dark greens and tans/browns	FG: Brown, metallic, tan BG: none discernable
TEX-TURE	FG: Relatively smooth , fine BG: Rugged, rough and complex	FG: Rough and patchy BG: Stippled and uniform	FG: Smooth BG: none discernable

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	None apparent	None apparent	Vertical, geometric
LINE	None apparent	None apparent	Vertical, straight
COLOR	None apparent	None apparent	Gray, reflective chroma
TEX-TURE	None apparent	None apparent	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X				X			X	
	Line				X				X			X	
	Color				X				X			X	
	Texture				X				X			X	

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 6, 2010

KOP 2 – La Paz County Regional Hospital, facing southeast

Weak contrast would result from construction and operation of the proposed project as seen in the context of a semi-modified (due to the surrounding development and agricultural-related structures) project setting. The top of the receiver tower would be seen from KOP 2 at a distance of approximately 19 miles and would be seen from a slightly inferior viewing position with partial screening due to topography changes in the landscape between the viewer and the project, further reducing the overall perceived impacts. The tower would be partially skylined with the top portion being exposed over the edge of the La Posa Plain with the glow of the receiver being the most prominent feature from this view. Overall impacts are anticipated to be low.

Refer to Appendix G, Figure S-2 for simulation from this viewing location.

Form 8400-04
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**April 26, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

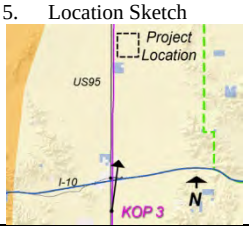
2. Key Observation Point
KOP-3 US 95, South of I-10

3. VRM Class
III

4. Location

Township T1N
Range R19W
Section 3

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Flat to subtle undulation BG: Flat with mountain silhouettes	FG: Short mounds; patchy BG: Amorphous	FG: Geometric, rectilinear BG: Complex square clusters; tall trapzoidal
LINE	FG: Horizontal and slightly undulating BG: Horizontal with mountainous profile	FG: Irregular edges BG: Horizontal banding	FG: Horizontal, vertical, and ordered with thin curving lines BG: Angular, vertical, ordered, and geometric
COLOR	FG: Tans and browns with gray BG: Red and browns with blue hues caused by atmospheric conditions	FG: Greens, olive, tan, yellow, and browns; green BG: Dark greens, and browns	FG: Brown, gray, tan, and metallic BG: Brown, gray and metallic. whites
TEX-TURE	FG: Relatively smooth BG: Smooth to rough for mountain shapes	FG: Rough, coarse BG: Smooth	FG: Smooth BG: complex and coarse

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Not discernable	Simple geometric forms created by vegetation clearings	Vertical, angular, and ordered (possibly focal)
LINE	Not discernable	Weak edges created by vegetation clearings for site elements or roads	Vertical, angular, and geometric
COLOR	Not discernable	Green and olive hues	Gray, tans, reflective chroma
TEX-TURE	Not discernable	Patchy	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X			X				X	
	Line				X			X				X	
	Color				X			X				X	
	Texture				X			X				X	

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names	Date
Conrad Langley	**Oct. 6, 2010**

KOP 3 – US 95, South of I-10, facing north

Weak contrast would result from construction and operation due to the proposed project being seen in the context of a modified naturalistic project setting designated as VRM Class III. The proposed project receiver tower would be seen from KOP 3 at a distance of approximately 16 miles and would be seen from a level viewing position with the primary view being of the proposed receiver tower. Changes in topography and natural vegetative help screen views to the project with views of landform changes not being discernable from this distance and viewing position. Overall impacts are anticipated to be low.

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UNITED STATES
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BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**April 26, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

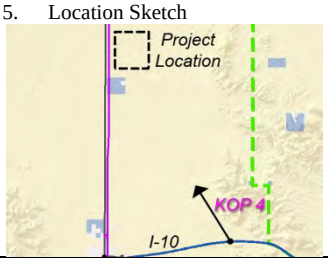
2. Key Observation Point
KOP-4 I-10 Westbound

3. VRM Class
III

4. Location

Township T4N
Range R18W
Section 22

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: flat to subtly rolling terrain/ undulating, sloping hills BG: Rugged with numerous angular, rugged mountain silhouettes, tall, steep	FG: Short to moderate height and complexity, patchy BG: Sparse	FG: Tall, thin, vertical BG: Small, boxy
LINE	FG: Horizontal and clearly defined BG: Angular with mountain silhouettes	FG: Irregular and random BG: some horizontal edges along mountainous terrain	FG: Horizontal, vertical, geometric, angular; straight BG: Angular, vertical, and geometric
COLOR	FG: Tans and browns with gray and dark brown BG: Brown colors with purple and blue hues caused by atmospheric conditions	FG: Greens, silver-green, tan, yellow, and browns BG: Dark greens and browns	FG: White, brown, and black BG: White, browns
TEX-TURE	FG: Fine BG: Rugged, rough and complex	FG: Rough and complex BG: Stippled and patchy	FG: Smooth BG: Smooth, indescernable

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Simple geometric forms created by cut, fill, and/or roads	Simple geometric forms created by vegetation clearings	Vertical, angular, tall, and ordered
LINE	Weak edges created by cut, fill, and/or roads (circular/angular)	Weak edges created by vegetation clearings for site elements or roads	Vertical, angular, and geometric
COLOR	Browns, tans, gray, burnt sienna, and red hues	Green and olive hues	Gray, flat metallic, and reflective chroma
TEX-TURE	Smooth, regular	Patchy and random	Smooth to rough (gradational)

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1.

DEGREE OF CONTRAST		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form			X				X				X	
	Line			X				X				X	
	Color			X				X			X		
	Texture			X				X				X	

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names	Date
Conrad Langley	**October 6, 2010**

KOP 4 – Facing northwest from westbound I-10

Weak/moderate contrast would result from construction and operation of the proposed project with naturalistic project setting designated as VRM Class III. The proposed project structures would be seen from KOP 4 at a distance of approximately 14 miles from a slightly superior viewing position with the dominant view being of the proposed receiver tower. Although the project itself would be within a naturalistic setting, westbound travelers along I-10 would have forward views of the town of Quartzsite with the tower and receiver being outside the normal cone of vision for travelers. The construction of the project would result in substantial grading and the clearing of vegetation with a weak contrast resulting from grading and vegetation removal. Due to the slightly elevated viewing position, the heliostat array and powerblock elements would be visible, but the array would be seen as a thin, dark line on the horizon in the context of the existing horizon line. The corona (color) from the receiver would provide the highest contrast. Overall impacts are anticipated to be low.

Refer to Appendix G, Figure S-3 for simulation from this viewing location.

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(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**June 4, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

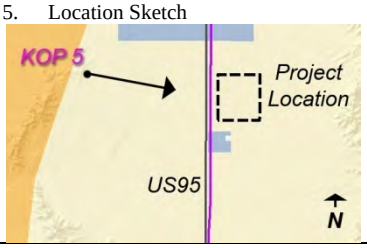
2. Key Observation Point
KOP-5 Copper Peak

3. VRM Class
III

4. Location

Township T6N
Range R20W
Section 23

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Flat to subtly undulating BG: Strong horizon line and bold mountain silhouettes	FG: Mottled; patchy; triangular BG: Low, horizontal	FG: Angular, vertical, geometric, cylindrical, and rectangular BG: None apparent
LINE	FG: Horizontal, striated BG: Jagged	FG: Horizontal bands BG: flowing edges; horizontal	FG: Vertical, horizontal, angular BG: None apparent
COLOR	FG: Tan, gray, and browns BG: Tan, brown, burnt and raw sienna	FG: Light and dark greens, tans, browns, grays, and olives BG: Green (various shades), olives; tan	FG: Tans and creams BG: None apparent
TEX-TURE	FG: Smooth to course (gradational) BG: fine (Plains) coarse and rugged (mountains)	FG: Course to smooth (gradational) BG: Smooth	FG: Smooth BG: Smooth, indescernable

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Geometric forms from site grading	Geometric forms from vegetation clearings	Vertical, boxy, geometric (tower & powerblock) Horizontal, geometric; dense (array)
LINE	Straight edges created by site preparation work	Straight edges created from vegetation clearings	Vertical and straight (tower & powerblock) Horizontal, long, angular (array)
COLOR	Tan	Green to not apparent	Tans; gray with reflective chroma
TEX-TURE	Smooth	Patchy	Smooth (tower) Coarse (array)

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form		X				X				X		
	Line		X				X			X			
	Color			X				X			X		
	Texture			X				X			X		

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 11, 2010

KOP 5 – Copper Peak, facing east

Moderate contrast would result from construction and operation of the proposed project with naturalistic project setting designated as VRM Class III. The construction of the project would result in substantial grading and the clearing of vegetation with a moderate/weak contrast resulting from grading and vegetation removal. The proposed project structures would be seen from KOP 5 at a distance of approximately 7 miles and would be seen from a level viewing position. From this KOP, the receiver tower, powerblock, and heliostat array project elements would be unobstructed for any potential viewers with the corona from the receiver backdropped against the darker mountains. Overall impacts are anticipated to be moderate.

Refer to Appendix G, Figure S-4 for simulation from this viewing location.

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UNITED STATES
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BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**April 26, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

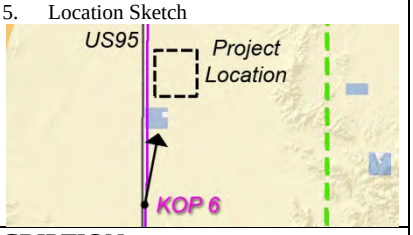
2. Key Observation Point
KOP-6 The Plomosa 14-day Camping Area

3. VRM Class
III

4. Location

Township T5N
Range R19W
Section 28

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Flat, subtly undulating BG: flat plains to rugged mountain silhouettes	FG: Globular, open; simple geometric shapes BG: Undulating, not very apparent	FG: Vertical and narrow, horizontal bands, and geometric (temporary RVs) BG: Geometric, sweeping
LINE	FG: Strong horizon BG: Layered mountainous silhouettes	FG: Undulating,, open edges BG: Horizontal bands of vegetation	FG: Vertical and angular, horizontal bands, ordered BG: Sweeping lines, minimal; rhythmic
COLOR	FG: Tans and browns with gray and burnt sienna BG: Red and brown colors with sienna hues and blue hues caused by atmospheric conditions	FG: Greens, muted olive tones, tan, yellow, and brown BG: Dark greens, and browns (not very apparent)	FG: Gray, flat, (tan/blue for RV) BG: Gray, brown, metallic
TEX-TURE	FG: Smooth BG: Rugged silhouettes	FG: Patchy; coarse and rough BG: Stippled, mottled	FG: Smooth BG: Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Not apparent	Not apparent	Vertical, cylindrical
LINE	Not apparent	Not apparent	Vertical, straight and bold
COLOR	Not apparent	Not apparent	Tan-gray; reflective chroma
TEX-TURE	Not apparent	Not apparent	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST

ELEMENTS	FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
Form				X				X		X		
Line				X				X		X		
Color				X				X		X		
Texture				X				X			X	

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 6, 2010

KOP 6 – The Plomosa 14-day Camping Area, facing north

Weak contrast would result from construction and operation of the proposed project with naturalistic project setting designated as VRM Class III. The grading and the clearing of vegetation associated with the project would not be visible from this location due to the changes in topography and vegetation screening. The proposed project structures would be seen from KOP 6 at a distance of approximately 6 miles and would be seen from a level viewing position with the dominant view being of the proposed receiver tower and the corona effect of the receiver. Overall impacts are anticipated to be moderate.

Refer to Appendix G, Figure S-5 for simulation from this viewing location.

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UNITED STATES
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BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**April 26, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

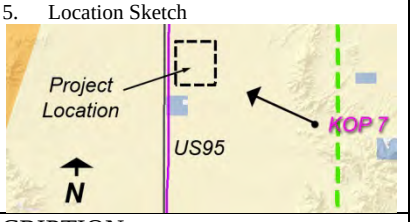
2. Key Observation Point
KOP-7 The Fisherman Intaglio cultural site

3. VRM Class
III

4. Location

Township T5N
Range R18W
Section 11

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Rolling terrain/ undulating, triangular, domed BG: rugged mountain silhouettes, scalloped, framed, complex	FG: Amorphic and patchy; mounded and triangular BG: Horizontal and amorphic with bold silhouettes	FG: Vertical, though minimal (fences) BG: None apparent
LINE	FG: Diagonal and curvilinear ; horizontal BG: Bold lines and edges (irregular)	FG: Undulating, low-lying patches; vertical, defined BG: Diffuse and horizontal edges	FG: Vertical and angular BG: Minimal
COLOR	FG: Tans and browns with gray BG: Red and browns with sienna hues; blue hues caused by atmospheric conditions	FG: Greens, olive, tan, yellow greens, yellows, and brown BG: Dark greens, and browns (not apparent)	FG: Brown BG: None apparent
TEX-TURE	FG: Medium to coarse; gradational BG: Rugged silhouettes	FG: Patchy and discontinuous BG: Stippled, dimpled	FG: Smooth BG: None apparent

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Not visible	Not visible	Vertical, cylindrical
LINE	Not visible	Not visible	Vertical, straight and bold
COLOR	Not visible	Not visible	Gray, flat metallic, reflective chroma
TEX-TURE	Not visible	Not visible	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST		FEATURES												2. Does project design meet visual resource management objectives? ☒ Yes ☐ No (Explain on reverse side)
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)				3. Additional mitigating measures recommended? ☐ Yes ☒ No (Explain on reverse side)
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	
ELEMENTS	Form				X				X		X			Evaluator's Names Date
	Line				X				X			X		**Conrad Langley (EPG) October 6, 2010**
	Color				X				X		X			
	Texture				X				X			X		

KOP 7 – Fisherman Intaglio, facing northwest

Weak contrast would result from construction and operation of the proposed project with naturalistic project setting designated as VRM Class III. The proposed project receiver tower would be seen from KOP 7 at a distance of approximately 7 miles and would be seen from a level viewing position with views of the proposed receiver tower and corona effect from the receiver. Changes in topography and natural vegetation will screen the view to the heliostat array and lower powerblock elements of the project. Overall impacts are anticipated to be low/moderate.

Refer to Appendix G, Figure S-6 for simulation from this viewing location.

Form 8400-04
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**April 26, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

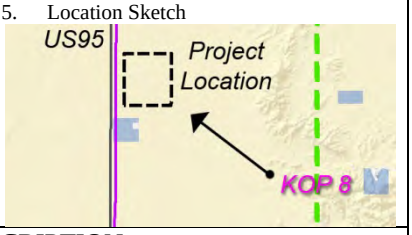
2. Key Observation Point
KOP-8 Roadside viewing location – Plomosa Backcountry Byway

3. VRM Class
III

4. Location

Township	T5N
Range	R18
Section	14

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Flat to rolling terrain/ undulating BG: Rugged with numerous angular, rugged and bold mountain silhouettes	FG: Low and patchy, mottled BG: Curving, low dense forms	FG: Horizontal BG: Weak geometric shapes
LINE	FG: Horizontal and undulating with butt edges created by road cuts, curvilinear bands BG: Sweeping with strong horizon line and mountain silhouettes	FG: Irregular and random, some bands in middleground BG: some horizontal lines and edges along mountain slopes; stippled	FG: Horizontal divergent bands BG: Weak angular lines
COLOR	FG: Tans and browns with gray and burnt sienna BG: Red and brown colors with purple and blue hues caused by atmospheric/haze conditions; light browns	FG: Greens, olives; tan, yellow, and browns; dark greens BG: Dark greens and tans/browns	FG: Gray, flat tone BG: White, metallic, indescernable
TEX-TURE	FG: Smooth to rough (gradational) BG: Rugged, rough and complex (layered)	FG: Rough and complex (patchy and sporadic) BG: Stippled and uniform	FG: Smooth BG: Smooth, indescernable

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Simple geometric forms created by cut, fill, and/or roads	Simple geometric forms created by vegetation clearings	Vertical, boxy, geometric (tower & powerblock) Horizontal, geometric; dense (array)
LINE	Weak edges created by cut, fill, and/or roads (circular/angular)	Weak edges created by vegetation clearings for site elements or roads	Vertical and straight (tower & powerblock) Horizontal, long, angular (array)
COLOR	Browns, tans, gray, burnt sienna, and red hues	Green and olive hues (not discernable)	Tans; gray; reflective chroma
TEX-TURE	Smooth, regular	Patchy and random	Smooth (tower) coarse (mirrors)

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form			X				X			X		
	Line			X				X			X		
	Color			X				X		X			
	Texture			X				X			X		

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 6, 2010

KOP 8 – Plomosa Backcountry Byway, facing northwest

Moderate contrast would result from construction and operation of the proposed project within a naturalistic project setting designated as VRM Class III. The construction of the project would result in substantial grading and the clearing of vegetation, but is unlikely that the contrast as a result of landform and vegetation modification would result in increased project contrast from this KOP due to undulations in topography and vegetation. The proposed project structures would be seen from KOP 8 at a distance of approximately 6 miles from a slightly superior viewing position. From this location, the receiver tower and associated powerblock components, heliostat array, and ancillary facilities would be seen, thus increasing the contrast in the structure's form, line, and color. Due to the horizontal nature of the heliostat array and distance from the viewer, however, the horizontality of the project would be seen in the context of the strong horizon line. Overall impacts will be moderate.

Refer to Appendix G, Figure S-13 for simulation from this viewing location.

Form 8400-04
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**April 26, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

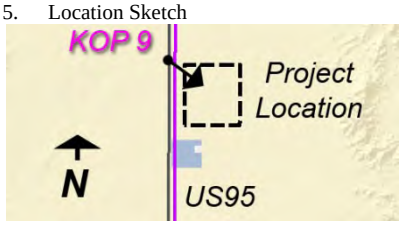
2. Key Observation Point
KOP-9 SR 95 at Copperstone Mining Road

3. VRM Class
III

4. Location

Township T6N
Range R19W
Section 22

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Horizontal, flat; subtle undulation BG: Rugged with angular mountain terrain	FG: Mottled, low, amorphous BG: Indiscernible	FG: Tall, thin, boxy, vertical, and ordered BG: None apparent
LINE	FG: Strong horizontal line BG: Jagged and complex with angular mountain silhouettes	FG: Jagged, horizontal bands, diffuse BG: Not distinguishable	FG: Horizontal, vertical, angular, rhythmic and ordered; thin curving BG: None apparent
COLOR	FG: Tans and browns with red hues BG: Brown to dark brown colors with blue hues caused by atmospheric conditions	FG: Greens, olive, tan, yellow, and brown BG: Yellows, greens, and browns	FG: Brown, gray, and metallic BG: None apparent
TEX-TURE	FG: Smooth BG: Rugged, rough	FG: Sparse; coarse, random BG: Smooth to medium coarseness	FG: Smooth BG: None apparent

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Geometric forms created by cut, fill, and/or roads	Geometric forms created by vegetation clearings	Geometric; cylindrical and boxy (tower) Low and dense (array)
LINE	Edges created by cut, fill, and/or roads	Edges created by vegetation clearings for site elements or roads	Straight, angular (powerblock) Straight, rhythmic (transmission lines)
COLOR	Browns, tans, burnt sienna, and red hues	Not visible	Grey, reflective chroma (tower) Gray and tans, flat metallic (array, lower powerblock, transmission lines)
TEX-TURE	Smooth	Patchy	Smooth (tower) Complex with moderate texture (array, lower powerblock, transmission lines)

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST

ELEMENTS	FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
Form		X				X			X			
Line		X				X			X			
Color			X				X		X			
Texture			X			X				X		

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 6, 2010

KOP 9 – SR 95 at Copperstone Mining Road, facing southeast

Strong contrast would result from construction and operation of the proposed project with naturalistic project setting designated as VRM Class III. The construction of the project would result in substantial grading and the clearing of vegetation with a moderate contrast as a result. The nearest proposed project structures would be seen from KOP 9 at a distance of approximately 4,700 feet with the receiver tower approximately 9,400 feet away from a level viewing position. In addition to the receiver tower and powerblock, project elements such as the heliostat array, intertie transmission poles would be dominant objects on the east side of SR 95. These project components would increase the project contrast as moderate sensitive viewers travel past the site, thus increasing impacts. Overall impacts are anticipated to be high.

Refer to Appendix G, Figure S-7 for simulation from this viewing location.

Form 8400-04
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**April 26, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

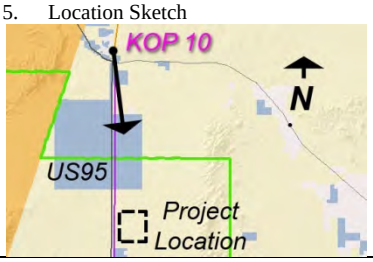
2. Key Observation Point
KOP-10 Entrance to WSA; SR 95 and SR 72 Junction

3. VRM Class
III

4. Location

Township T8N
Range R19W
Section 27

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Flat to subtle rolling undulating terrain BG: Rugged with angular, rugged mountain silhouettes	FG: Indistinct, amorphous, stippled BG: Low, mottled	FG: Vertical and angular, horizontal bands, geometric, and cylindrical BG: Geometric, divergent bands
LINE	FG: Undulating strong horizontal lines BG: Layered mountainous silhouettes	FG: Undulating, bands, and diffuse/digitate edges BG: Horizontal/curving bands of vegetation	FG: Vertical and angular, horizontal bands, ordered, geometric, rhythmic BG: Sweeping lines, bands
COLOR	FG: Tans and browns with gray BG: Browns with sienna hues and blue hues caused by atmospheric conditions	FG: Greens, olive, tan, yellow, and brown BG: Dark greens, and browns	FG: Gray, flat brown, white, black, metallic, ivory BG: Gray, brown, metallic
TEX-TURE	FG: Smooth BG: Rugged silhouettes	FG: Stippled, coarse BG: Smooth	FG: Smooth BG: Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Not apparent	Not apparent	Vertical and cylindrical (tower) ordered and horizontal (array)
LINE	Not apparent	Not apparent	Vertical, and bold (tower) Horizontal with angular elements, bold (array and lower powerblock elements, transmission lines)
COLOR	Not apparent	Not apparent	Gray, flat metallic, reflective chroma
TEX-TURE	Not apparent	Not apparent	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X				X		X		
	Line				X				X			X	
	Color				X				X		X		
	Texture				X				X			X	

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 6, 2010

KOP 10 – Entrance to WSA at the SR 95/SR 72 junction, facing south

Moderate contrast would result from construction and operation of the proposed project within a naturalistic project setting designated as VRM Class III. The proposed project structures would be seen from KOP 10 at a distance of approximately 10 miles from a level position relative to the viewer. Due to subtle changes in topography, it is unlikely that construction-related grading and vegetation clearing would be evident from this viewpoint. In this same respect, it is unlikely that the heliostat array or certain components of the powerblock or the administrative buildings would be visible from this KOP. The receiver tower would be visible in the middleground to background and would be skylined with the corona from the receiver being most evident. Overall impacts will be Low/moderate.

Form 8400-04
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**April 26, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

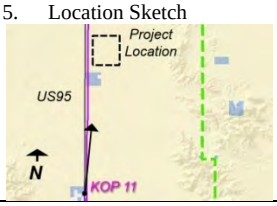
2. Key Observation Point
KOP-11 North boundary of Quartzsite

3. VRM Class
III

4. Location

Township T4N
Range R19W
Section 16

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Subtle, rolling/undulating terrain BG: Rugged with numerous angular, rugged mountain silhouettes	FG: Undulating with simple geometric forms BG: Evenly distributed and undistinguishable	FG: Vertical, thin; boxy BG: Vertical, thin
LINE	FG: Horizontal and slightly undulating BG: Angular with pyramidal and mountainous silhouettes	FG: Indistinct edges BG: Clearly defined edges along mountainous terrain (bajadas)	FG: Vertical, thin curving lines; rhythmic BG: Angular, numerous vertical; short diagonals
COLOR	FG: Tans and browns with gray BG: Red and brown colors; blue hues caused by atmospheric conditions	FG: Greens, olive, tan, yellow, brown; gray-green, dark green BG: Dark greens, and browns (not apparent)	FG: Tan, browns, grays (w/ yellow) BG: Brown, gray, and metallic; note: blinking daytime light on the cell tower in the middleground)
TEX-TURE	FG: Relatively smooth BG: Rugged, rough	FG: Rough and patchy BG: Smooth, evenly distributed	FG: Smooth BG: Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Not apparent	Not apparent	Vertical, geometric
LINE	Not apparent	Not apparent	Vertical, straight, and angular
COLOR	Not apparent	Not apparent	Gray, flat metallic, reflective chroma
TEX-TURE	Not apparent	Not apparent	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X				X			X	
	Line				X				X			X	
	Color				X				X			X	
	Texture				X				X			X	

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 6, 2010

KOP 11 – Quartzsite, facing north

Weak contrast would result from construction and operation of the proposed project as seen from a semi-modified (due to development of Quartzsite) project setting. Modifications to landform and vegetation would not be seen from this KOP as seen from a level viewing position due to changes to topography and vegetative screening. In this same respect, the heliostat array and intertie transmission lines and poles would not likely be seen from this viewing position. From this location, the receiver tower would be seen but repeats the form and line of other elements of the semi-modified setting. Color contrast as a result of the corona effect would be the most visible. Overall impacts are anticipated to be low.

Refer to Appendix G, Figure S-8 for simulation from this viewing location.

Form 8400-04
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**April 26, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

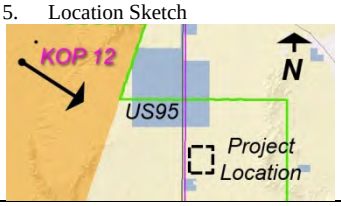
2. Key Observation Point
KOP-12 La Pera Elementary School

3. VRM Class
III

4. Location

Township T7N
Range R22W
Section 16

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Relatively flat BG: Jagged, bold mountain silhouettes, prominent	FG: Uniform geometric patterns (ag), bold, oval, dominant (trees) BG: Amorphous and mottled; sparse	FG: Geometric, ordered BG: Geometric and horizontal
LINE	FG: Horizontal BG: Sweeping and horizontal with strong horizon line; irregular mountain silhouettes	FG: Bold butt edges at where crops are planted BG: Some horizontal lines, not very apparent	FG: Vertical, ordered; rhythmic BG: Horizontal
COLOR	FG: Tans and browns with gray BG: Red and dark browns; tans	FG: Deep greens, tans, and browns BG: Dark greens and tans/browns	FG: Gray, metallic, brown, white BG: White, metallic, indescernable
TEX-TURE	FG: Relatively smooth , fine BG: Rugged, rough and complex	FG: Fine and smooth (ag) BG: Stippled and uniform	FG: Smooth, indiscernible BG: Smooth, indescernable

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	No Views	No Views	Geometric, boxy
LINE	No Views	No Views	straight
COLOR	No Views	No Views	Gray, flat metallic, reflective chroma
TEX-TURE	No Views	No Views	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X				X			X	
	Line				X				X			X	
	Color				X				X			X	
	Texture				X				X			X	

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 6, 2010

KOP 12 – La Pera Elementary School, facing east

Weak contrast would result from construction and operation of the proposed project as seen from a semi-modified (as a result of agricultural development) project setting. Modifications to landform and vegetation due to the construction and operation of the project would not be seen from this KOP. The proposed receiver tower would be seen from KOP 12 at a distance of approximately 14 miles and would be seen from a slightly inferior viewing position with changes in topography screening the heliostat array and most powerblock elements. The tower receiver would be partially skylined with the top portion being exposed over the edge of the La Posa Plain with the corona from the receiver being most prominent. Overall impacts are anticipated to be low.

Form 8400-04
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**June 4, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

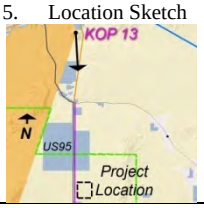
2. Key Observation Point
KOP-13 Communications site on Black Peak

3. VRM Class
III

4. Location

Township T9N
Range R19W
Section 14

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Rugged, rough, jagged MG to BG: Flat and horizontal	FG: Irregular, patchy MG to BG: Patchy, indistinct	FG: None MG to BG: Thin horizontal band
LINE	FG: Bold, angular, jagged MG to BG: Horizontal	FG: Indistinct MG to BG: Simple, undulating	FG: None MG to BG: Horizontal
COLOR	FG: Browns and dark browns MG to BG: Tan and beige	FG: Brown MG to BG: Greens and browns	FG: None MG to BG: Gray, metallic
TEX-TURE	FG: Rough MG to BG: Smooth	FG: Rough and patchy MG to BG: Smooth	FG: None MG to BG: Smooth, indescernable

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Not discernable	Not discernable	Geometric, vertical, cylindrical
LINE	Not discernable	Not discernable	Vertical Straight (tower) horizontal and straight, bold (array)
COLOR	Not discernable	Not discernable	Flat gray; reflective chroma (receiver)
TEX-TURE	Not discernable	Not discernable	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X				X			X	
	Line				X				X			X	
	Color				X				X			X	
	Texture				X				X			X	

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 11, 2010

KOP 13 – Black Peak, facing south

Weak contrast would result from construction and operation of the proposed project within a naturalistic project setting designated as VRM Class III. The proposed project structures would be seen from KOP 13 at a distance of approximately 18 miles and would be seen from a superior viewing position. It is unlikely that the contrast to landform and vegetation modifications would result in project contrast from this KOP. Due to the location of the heliostat array in relation to the viewer, reflections from the heliostat mirrors may temporarily reflect glint from the sun or reflect the blue sky at certain times of day, thus increasing contrast at those times. From this viewing position, the receiver tower and corresponding powerblock elements, heliostat array, and ancillary facilities would be seen, but would be weak due to distance and atmospheric conditions. Corona from the receiver would be lessened as a result of the higher elevation. Overall impacts will be low.

Refer to Appendix G, Figure S-9 for simulation from this viewing location.

Form 8400-04
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**April 26, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

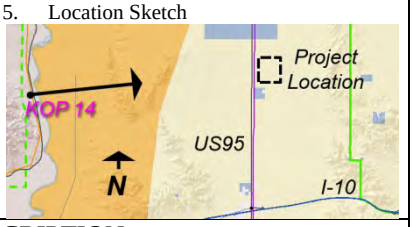
2. Key Observation Point
KOP-14 Blythe Intaglios cultural site

3. VRM Class
III

4. Location

Township T4S
Range R23E
Section 26

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Flat; small undulating hills BG: Rugged with angular mountain silhouettes, prominent	FG: Rounded, dense groupings; low dense groupings MG to BG: Geometric (ag); Amorphous and mottled	FG: Geometric, vertical, ordered BG: Geometric, boxy; rythmic
LINE	FG: Horizontal with edges created between foreground, middleground terrain (river) BG: Strong horizon line and bold mountain silhouettes	FG: Bold butt edges and bands where riparian vegetation meets natural MG to BG: Horizontal lines, butt edges	FG: Horizontal, vertical; ordered and rhythmic; thin and curving BG: Angular, horizontal, and geometric, ordered
COLOR	FG: Tans and browns with burnt sienna hues BG: Tans browns with blue hues caused by atmospheric/haze conditions	FG: Deep greens, tan, and brown; light greens and dark greens BG: Dark greens and tans/browns	FG: Gray, metallic, brown, white BG: White, indescernable
TEX-TURE	FG: Fine, smooth MG to BG: Smooth to rugged, rough and complex	FG: Coarse for larger veg; fine for smaller MG to BG: Stippled and uniform	FG: Smooth, fine MG to BG: Smooth

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Not visible	Not visible	Not discernable
LINE	Not visible	Not visible	Not discernable
COLOR	Not visible	Not visible	Gray, flat metallic; reflective chroma
TEX-TURE	Not visible	Not visible	Not discernable

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST

	FEATURES											
	LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS: Form				X				X				X
ELEMENTS: Line				X				X				X
ELEMENTS: Color				X				X			X	
ELEMENTS: Texture				X				X				X

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 6, 2010

KOP 14 – Blythe Intaglios, facing east

Weak contrast would result from construction and operation of the proposed project as seen in the context of the semi-modified (due to the agricultural development of the Parker Valley) project area. The proposed project structures would most likely not been seen from KOP 14 (with the project at a distance of approximately 19 miles) with a level viewing position relative to the viewer. The Moon Mountains would block all views of the project with the only possible exception being the very top of the receiver tower and the associated corona from the receiver. Overall impacts are anticipated to be low.

Form 8400-04
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**April 26, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

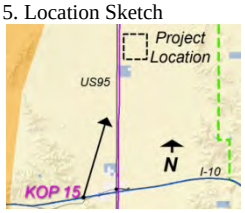
2. Key Observation Point
KOP-15 I-10 eastbound

3. VRM Class
III

4. Location

Township T4N
Range R20W
Section 30

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Flat to rolling terrain/ undulating, sloping BG: Rugged with numerous angular, rugged and bold mountain silhouettes, prominent	FG: Rounded, dense groupings and dispersed; low rounded forms BG: Low, even	FG: Horizontal, vertical; strong diagonals BG: Bold, diverse, numerous small square clusters; geometric
LINE	FG: Horizontal and undulating BG: Strong horizon line and mountain silhouettes	FG: Irregular and random; low rounded BG: Horizontal edges along mountainous (bajada) terrain	FG: Horizontal divergent bands, vertical, geometric, angular BG: Horizontal, vertical, and geometric
COLOR	FG: Tans and browns with gray BG: Red and brown colors with blue hues caused by atmospheric/haze conditions	FG: Greens, olive, tan, yellow, and brown BG: Dark greens and browns	FG: White, brown, yellow, gray, and black BG: White, brown, metallic, white, blue
TEX-TURE	FG: Smooth and fine BG: Rugged, rough and complex	FG: Rough and complex; coarse BG: Stippled and uniform; even	FG: Smooth MG to BG: Smooth, indescernable

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Geometric forms created by cut, fill, and/or roads	Geometric forms created by vegetation clearings	Vertical, columnar, and ordered
LINE	Weak edges created by cut, fill, and/or roads (circular/angular)	Weak edges created by vegetation clearings for site elements or roads	Vertical (tower), horizontal (solar array); straight
COLOR	Browns, tans, gray, burnt sienna, and red hues	Greens and browns (not discernable)	Gray; reflective chroma
TEX-TURE	Smooth	Fine	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1.

DEGREE OF CONTRAST		FEATURES: LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form			X				X				X	
	Line			X				X				X	
	Color				X				X			X	
	Texture				X				X				X

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 6, 2010

KOP 15 – I-10 eastbound, facing northeast

Weak contrast would result from construction and operation of the proposed project as seen from a semi-modified project setting (due to the interstate highway and cultural modifications along the highway/town of Quartzsite). Form, line, color, and texture as a result of clearing of vegetation and landform will not be apparent from this viewing position due to the level viewing position and distance (approximately 13 miles). With the exception of the receiver tower and related corona, the proposed project structures would be predominantly obstructed due to topography as well as vegetative screening in the foreground. Portions of the heliostat array would be partially seen for short durations as travelers descend into the La Posa Plain from the Dome Rock Mountains. Overall impacts are anticipated to be low.

Form 8400-04
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**June 4, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

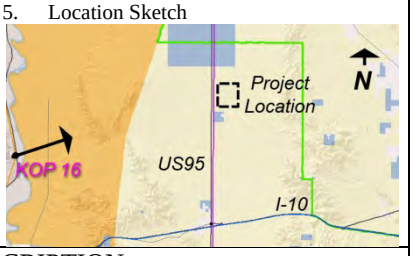
2. Key Observation Point
KOP-16 Cultural resource area next to Black Point

3. VRM Class
III

4. Location

Township T5S
Range R24E
Section 7

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Jagged, rocky outcrops transitioning abruptly to flat plains with snaking water feature MG to BG: flat to layered undulations	FG: Angular and low, geometric (ag); mounded and irregular (native) BG: Angular and geometric	FG: Vertical and thin; geometric BG: horizontal; boxy and modular
LINE	FG: Angular, jagged; straight, horizontal BG: Horizontal with jagged silhouettes and a strong horizon line	FG: Geometric with butt edges, ordered (ag); undulating and irregular (native) BG: Angular with butt edges, ordered (ag) rough, broken edges	FG: Vertical, horizontal; rhythmic, ordered BG: Horizontal; ordered
COLOR	FG: Tan, blue (water), burnt and raw sienna, and browns BG: Tan, burnt and raw sienna, and beige	FG: Light and dark greens; tans and browns, olive BG: Green, olive, tans; yellow-green	FG: Brown, metallic BG: Gray, brown, white
TEX-TURE	FG: Small rough patches with larger smooth areas (water and ag.) BG: Rough	FG: Smooth and fine (ag); patchy (native) MG to BG: Fine (ag); patchy (native)	FG: Smooth BG: Smooth, indescernable

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Not Visible	Not Visible	Not apparent
LINE	Not Visible	Not Visible	Not apparent
COLOR	Not Visible	Not Visible	Flat gray with reflective chroma
TEX-TURE	Not Visible	Not Visible	Not apparent

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X				X				X
	Line				X				X				X
	Color				X				X			X	
	Texture				X				X				X

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 6, 2010

KOP 16 – Black Point, facing east

Weak contrast would result from construction and operation of the proposed project as seen in the context of the semi-modified (due to the agricultural development of the Parker Valley) project area. The proposed heliostat array and powerblock structures are at a distance of approximately 19 miles and would not been seen from KOP 16. The Moon Mountains would block all views of the project with the exception being the very top of the receiver tower and the related corona from the reciever. Overall impacts are anticipated to be low.

Refer to Appendix G, Figure S-10 for simulation from this viewing location.

Form 8400-04
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**June 4, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

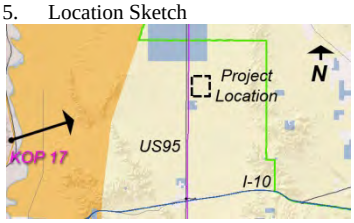
2. Key Observation Point
KOP-17 Big Maria Mountains

3. VRM Class
III

4. Location

Township T5N
Range R22W
Section 12

5. Location Sketch



SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Jagged, rocky outcrops transitioning abruptly to flat plains with snaking water feature MG to BG: flat to layered undulations	FG: Angular and low, geometric (ag); mounded and irregular (native) BG: Angular and geometric	FG: Vertical and thin; geometric BG: horizontal; boxy and modular
LINE	FG: Angular, jagged; straight, horizontal BG: Horizontal with jagged silhouettes and a strong horizon line	FG: Geometric with butt edges, ordered (ag); undulating and irregular (native) BG: Angular with butt edges, ordered (ag) rough, broken edges	FG: Vertical, horizontal; rhythmic, ordered BG: Horizontal; ordered
COLOR	FG: Tan, blue (water), burnt and raw sienna, and browns BG: Tan, burnt and raw sienna, and beige	FG: Light and dark greens; tans and browns, olive BG: Green, olive, tans; yellow-green	FG: Brown, metallic BG: Gray, brown, white
TEX-TURE	FG: Small rough patches with larger smooth areas (water and ag.) BG: Rough	FG: Smooth and fine (ag); patchy (native) MG to BG: Fine (ag); patchy (native)	FG: Smooth BG: Smooth, indescernable

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	Not Visible	Not Visible	Vertical, boxy geometry
LINE	Not Visible	Not Visible	Vertical, regular
COLOR	Not Visible	Not Visible	Flat gray with reflective chroma
TEX-TURE	Not Visible	Not Visible	Not discernable

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST		FEATURES												2. Does project design meet visual resource management objectives? ☒ Yes ☐ No (Explain on reverse side)
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)				3. Additional mitigating measures recommended? ☐ Yes ☒ No (Explain on reverse side)
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	
ELEMENTS	Form				X				X			X		Evaluator's Names Date
	Line				X				X			X		**Conrad Langley (EPG) October 6, 2010**
	Color				X				X			X		
	Texture				X				X				X	

KOP 17 – Big Maria Mountains, facing east

Weak contrast would result from construction and operation of the proposed project as seen in the context of the semi-modified (due to the agricultural development of the Parker Valley) project area. The proposed heliostat array and shorter powerblock structures, at a distance of approximately 19 miles, would not been seen from KOP 17 with a level viewing position relative to the viewer. The Moon Mountains would block all views of the project with the exception being the very top of the receiver tower and associated corona from the receiver tower. Overall impacts are anticipated to be low.

Refer to Appendix G, Figure S-11 for simulation from this viewing location.

Form 8400-04
(September 1985)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	**June 4, 2010**
District	**Yuma**
Resource Area	**Yuma**
Activity (program)	**Solar Facilities**

SECTION A. PROJECT INFORMATION

1. Project Name
Quartzsite Solar Energy Project

2. Key Observation Point
KOP-18 Parker residence

3. VRM Class
III

4. Location

Township T9N
Range R20W
Section 12

5. Location Sketch

SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	FG: Relatively flat BG: Jagged, bold mountain silhouettes, prominent	FG: Mottled, patchy BG: sparse, uniform	FG: Geometric, boxy, horizontal, vertical BG: none discernable
LINE	FG: Horizontal BG: Sweeping and horizontal with strong horizon line; irregular mountain silhouettes	FG: irregular BG: Some horizontal lines, not very apparent	FG: Straight, horizontal, vertical; thin BG: none discernable
COLOR	FG: Tans and browns with gray BG: Red and dark browns; tans	FG: Greens, tans and browns BG: Dark greens and tans/browns	FG: Brown, metallic, tan BG: none discernable
TEX-TURE	FG: Relatively smooth , fine BG: Rugged, rough and complex	FG: Rough and patchy BG: Stippled and uniform	FG: Smooth BG: none discernable

SECTION C. PROPOSED ACTIVITY DESCRIPTION

	1. LAND/WATER	2. VEGETATION	3. STRUCTURES
FORM	None apparent	None apparent	Vertical, geometric
LINE	None apparent	None apparent	Vertical, straight
COLOR	None apparent	None apparent	Gray, reflective chroma
TEX-TURE	None apparent	None apparent	Smooth

SECTION D. CONTRAST RATING ☐ SHORT TERM ☒ LONG TERM

1. DEGREE OF CONTRAST

		FEATURES											
		LAND/WATER BODY (1)				VEGETATION (2)				STRUCTURES (3)			
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None
ELEMENTS	Form				X				X			X	
	Line				X				X			X	
	Color				X				X			X	
	Texture				X				X			X	

2. Does project design meet visual resource management objectives?
☒ Yes ☐ No
(Explain on reverse side)

3. Additional mitigating measures recommended?
☐ Yes ☒ No
(Explain on reverse side)

Evaluator's Names Date

Conrad Langley (EPG) October 6, 2010

KOP 18 – Parker residence, facing southeast

Weak contrast would result from construction and operation of the proposed project as seen in the context of a semi-modified (due to the surrounding development and agriculture-related structures) project setting. The top of the receiver tower would be seen from KOP 18 at a distance of approximately 19 miles and would be seen from a slightly inferior viewing position with partial screening, due to topography changes in the landscape between the viewer and the project, further reducing the overall perceived impacts. The tower would be partially skylined with the top portion being exposed over the edge of the La Posa Plain, with the glow of the receiver being the most prominent feature from this view. Overall impacts are anticipated to be low.