

**APPENDIX D2 – VISUAL CONTRAST RATING  
WORKSHEETS**

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| <b>Date:</b> April 27, 2010                              |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC14 County Road A030 Residence<br><b>VRM Class:</b> IV (viewed from land without VRM Classification) | <b>Location:</b><br>Township: T25S<br>Range: R02E<br>Section: 28 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

## Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures         |
|----------------|--|--|--------------------|
| <b>Form</b>    | FG: Flat to gently rolling<br>MG: Elongated, geometric | FG: Low patches<br>MG: Amorphous patches           | FG: Thin, vertical |
| <b>Line</b>    | FG: Horizontal<br>MG: Irregular horizontal             | FG: Butt edge (at roads)<br>MG: Weak digitate edge | FG: Vertical       |
| <b>Color</b>   | FG: Light browns<br>MG: Brown-gray                     | FG: Greens, golden<br>MG: Blue-green               | FG: Brown          |
| <b>Texture</b> | FG/MG: Fine grain                                      | FG/MG: Fine grain                                  | FG: Fine grain     |

## Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |      |

**Does project design meet visual resource management objectives?**  
 Yes

**Additional mitigating measures recommended?**  
 No

**Evaluator Name(s):**  
 EPG Visual Personnel

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| <b>Date: April 27, 2010</b>                              |
| <b>District/Field Office: Las Cruces, NM</b>             |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project, within a panoramic landscape setting designated as VRM Class IV and viewed residences associated with County Road A030. The proposed Project crosses flat to gently rolling terrain and would be backdropped by adjacent terrain. Disturbance associated with construction access would be screened by topography and vegetation; thus disturbance to these features would not be visible from the KOP. The proposed structures would be seen at approximately 2.1 miles in a partially backdropped condition with small distribution power lines in the foreground. The proposed structures would introduce moderate contrast into the landscape to form and line, with weak contrast for color and texture.



*View east from a residence along County Road A030.*

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| <b>Date:</b> March 3, 2010                               |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC18 SR 142 Residence<br><b>VRM Class: IV</b> | <b>Location:</b><br><br>Township: 11S<br><br>Range: 5W<br><br>Section: 19 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

## Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures                          |
|----------------|--|--|-------------------------------------|
| <b>Form</b>    | FG/MG: Flat, level<br>BG: Mountain silhouette, pyramidal                 | FG/MG: Numerous, low individual;<br>V-shaped, creating expansive patch | MG: Few, thin, vertical             |
| <b>Line</b>    | FG/MG: Bold, continuous, horizontal<br>BG: Irregular, broken, horizontal | FG/MG: Straight, horizontal  | MG: Weak, vertical, thin, geometric |
| <b>Color</b>   | FG/MG: Light brown, tan<br>BG: Dulled, grayish-blue                      | FG/MG: Olive green   | MG: Dull gray                       |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Fine grain                                      | FG/MG: Regular, medium grain, dense                                    | MG: Even, ordered, repeating, fine  |

## Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular<br>transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal                |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered                 |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

| Degree of Contrast |         | Features                |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: March 3, 2010</b>                               |
| <b>District/Field Office: Las Cruces, NM</b>             |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong project contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting designated as VRM Class IV and associated with a residence on SR 142. The proposed Project would cross flat terrain and would be primarily skylined. Disturbance to vegetation and landform associated with construction access may be seen intermittently due to the moderately dense, low vegetation would partially screen these disturbances. The proposed structures would be seen at approximately 0.3 mile, with an existing transmission line visible at approximately 2.5 miles. The proposed Project would introduce strong contrast to structure elements of form, line, color, and texture. The close proximity of the proposed Project with an unobstructed view would result in an overall moderate-strong degree of contrast from this KOP.



*View south from a residence along SR 142.*

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| <b>Date:</b> February 18, 2011                           |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> El Camino Real                     |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                            |
|--|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC19 I-25 (Portions are El Camino Real)<br><b>VRM Class: III</b> | <b>Location:</b><br><br>Township: 12S<br><br>Range: 4W<br><br>Section: 6 | <b>Location Sketch</b><br> |
|--|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures  |
|----------------|---|--|---|
| <b>Form</b>    | FG: Flat, irregular, linear, concave<br>MG: Flat; low, isolated hills<br>BG: Bold, jagged                           | FG: Low, geometric patches<br>MG: Horizontal patches<br>BG: Homogeneous, indistinct    | FG: Vertical, geometric, narrow<br>MG: Thin, vertical (individual cell tower) |
| <b>Line</b>    | FG: Horizontal, diagonal, curving band<br>MG: Straight, horizontal<br>BG: Irregular, continuous, horizontal, rugged | FG: Butt edge; transitional edge (along road)<br>MG: Diffuse edge<br>BG: Digitate edge | FG: Square, rectangular, curving, simple<br>MG: Vertical                      |
| <b>Color</b>   | FG/MG: Tan, brown, gray, white, yellow<br>BG: Tan, light and dark brown   | FG/MG: Olive green, golden<br>BG: Olive green, golden, dark green                      | FG: Gray, yellow, white, orange<br>MG: Gray                                   |
| <b>Texture</b> | FG: Fine grain<br>MG: Fine grain<br>BG: Fine to medium grain  | FG: Dense, medium grain<br>MG/BG: Fine grain   | FG: Fine, smooth<br>MG: Fine  |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular<br>transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal                |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered                 |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|                    |         | Features                |          |      |      |            |          |      |      |            |          |      |      |   |  |  |  |
|--------------------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|---|--|--|--|
|                    |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |   |  |  |  |
|                    |         | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |   |  |  |  |
| Degree of Contrast | Form    |                         |          |      | X    |            |          |      |      | X          |          |      |      | X |  |  |  |
|                    | Line    |                         |          |      | X    |            |          |      |      | X          |          |      |      | X |  |  |  |
|                    | Color   |                         |          |      | X    |            |          |      |      | X          |          |      |      | X |  |  |  |
|                    | Texture |                         |          |      | X    |            |          |      |      | X          |          |      |      | X |  |  |  |

**Does project design meet visual resource management objectives?**  
 Yes

**Additional mitigating measures recommended?**  
 Yes – See Simulation 23

**Evaluator Name(s):**  
 EPG Visual Personnel

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| <b>Date: February 18, 2011</b>                           |
| <b>District/Field Office: Las Cruces, NM</b>             |
| <b>Resource Area: El Camino Real</b>                     |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Strong contrast would result from the construction and operation of the proposed Project within a feature landscape setting with VRM Class III designation and associated with the El Camino Real National Historic Trail along I-25. The proposed Project would cross relatively level terrain and would be primarily skylined when crossing I-25. Construction access disturbance to landform and vegetation would not be visible, due to vegetative screening. The proposed structures would be seen at approximately 0.25 mile and would introduce strong contrast for structure elements of form, line, color, and texture. Close viewer proximity and minimal screening for the structures would result in a strong degree of contrast from this KOP. Selective mitigation measure #10 (maximize span) would reduce contrast.



*View to the north from along northbound I-25.*

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| <b>Date:</b> March 3, 2010                               |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> Elephant Butte State Park          |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC20 Elephant Butte State Park<br><b>VRM Class:</b> III | <b>Location:</b><br><br>Township: T12S<br><br>Range: R04W<br><br>Section: 1 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures                         |
|----------------|--|--|------------------------------------|
| <b>Form</b>    | FG/MG: Relatively flat to gently rolling<br>BG: Weak, elongated mass on horizon          | FG/MG: Expansive homogeneous patch, few individual "V"-shaped<br>BG: Weak, geometric patches | FG: Low, repeating, vertical       |
| <b>Line</b>    | FG/MG: Strong, horizontal, curving band (road)<br>BG: Weak, broken, irregular horizontal | FG/MG: Butt edge at road, weak diffuse edge<br>BG: Weak diagonal                             | FG: Vertical, horizontal, diagonal |
| <b>Color</b>   | FG/MG: Tan, light reddish-brown<br>BG: Dull blue-green                                   | FG/MG: Greens, browns<br>BG: Dull blue-green   | FG: Light brown                    |
| <b>Texture</b> | FG/MG: Medium to fine grain<br>BG: Medium grain  | FG/MG: Medium grain, dense<br>BG: Fine grain   | FG: Fine grain                     |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Weak, thin, vertical      |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |  |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |
|                    |         | 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    |  |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: March 3, 2010</b>                               |
| <b>District/Field Office: Las Cruces, NM</b>             |
| <b>Resource Area: Elephant Butte State Park</b>          |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting with VRM Class III designation, viewed from Elephant Butte State Park. The proposed Project would cross flat terrain and would be partially backdropped by adjacent terrain. Construction access disturbance to landform and vegetation would not be visible from the KOP due to screening by terrain and vegetation. The proposed structures would be seen at approximately 3.6 miles and would introduce weak contrast into the landscape for structure elements of form, line, color, and texture. The viewing distance of the proposed Project would result in an overall weak degree of contrast from the KOP.



*View to the north from the entry drive of Elephant Butte Lake State Park.*

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| <b>Date:</b> March 24, 2010                              |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> Geronimo National Scenic Byway     |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                     |
|---|---|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC21 Geronimo National Scenic Byway<br><b>VRM Class:</b> IV | <b>Location:</b><br><br>Township: 12S<br><br>Range: 6W<br><br>Section: 13 | Location Sketch<br> |
|---|---|---------------------|

## Characteristic Landscape Description

|                | Landform/Water   | Vegetation                                     | Structures              |
|----------------|--|--|-------------------------|
| <b>Form</b>    | FG/MG: Relatively flat<br>BG: Irregular horizontal and pyramidal                                 | FG/MG: Low expansive homogeneous patches       | FG: Thin vertical       |
| <b>Line</b>    | FG/MG: Horizontal, diagonal, curving band (road)<br>BG: Irregular layered horizontal silhouettes | FG: Butt edge (at road)                        | FG: Vertical            |
| <b>Color</b>   | FG/MG: Light browns<br>BG: dulled bluish-brown and green   | FG/MG: Green/olive greens, golden, sage, brown | FG: Brown               |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Fine to medium grain  | FG/MG: Medium to fine grain                    | FG: Fine grain, ordered |

## Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures  |
|----------------|----------------|------------|---|
| <b>Form</b>    | NA             | NA         | FG: Tall vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray   |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered              |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |   |  |  |  |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|---|--|--|--|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |   |  |  |  |
|          |         | 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 |  |  |  |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: March 24, 2010</b>                              |
| <b>District/Field Office: Las Cruces, NM</b>             |
| <b>Resource Area: Geronimo National Scenic Byway</b>     |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting with VRM Class IV designation and associated with views from the Geronimo National Scenic Byway. The proposed Project would cross flat terrain where the Project would be partially backdropped by distant terrain. Construction access disturbance to landform and vegetation would not be visible from the KOP due to screening by vegetation. The proposed Project would be seen at approximately 0.6 mile with similar smaller structures visible directly behind the proposed structures. The proposed Project would introduce strong contrast for structure elements of line, with moderate contrast introduced into the landscape for form, color, and texture. The viewing distance, in consideration of existing similar structures visible, would result in a moderate-strong degree of contrast from the KOP. Selective mitigation measure #10 (maximize span at crossing) would reduce contrast in this area.



*View to the east from the Geronimo National Scenic Byway/SR 52, southwest of Winston, New Mexico.*

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| <b>Date:</b> February 18, 2011                           |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> Geronimo Scenic Byway              |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC22 Lake Valley Scenic Road/Geronimo Byway<br><b>VRM Class: III</b> | <b>Location:</b><br><br>Township: 15S<br><br>Range: 5W<br><br>Section: 30 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures                                |
|----------------|---|--|---|
| <b>Form</b>    | FG: Relatively flat<br>BG: Layered geometric mountain silhouettes                             | FG: Low-growing geometric patches<br>BG: Amorphous patches                   | FG: Thin, vertical (poles)                |
| <b>Line</b>    | FG: Horizontal, straight band (road)<br>BG: Sweeping and horizontal, with strong horizon line | FG: Butt edge (along road)<br>BG: Digitate edge                              | FG: Vertical, weak, diagonal (conductors) |
| <b>Color</b>   | FG: Reds and browns<br>BG: Dark brown and tans  | FG: Olive green, greens, tans and browns<br>BG: Dark greens and tans, browns | FG: Brown                                 |
| <b>Texture</b> | FG: Fine grain<br>BG: Fine to medium grain  | FG: Medium grain, medium density<br>BG: Fine grain                           | FG: Fine grain                            |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures  |
|----------------|----------------|------------|---|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal             |
| <b>Color</b>   | NA             | NA         | FG: Dull gray   |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered              |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |  |  |  |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|--|--|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |  |  |
|                    |         | 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    |      |  |  |  |

**Does project design meet visual resource management objectives?**  
 Yes

**Additional mitigating measures recommended?**  
 Yes – See Simulation 24

**Evaluator Name(s):**  
 EPG Visual Personnel

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| <b>Date: February 18, 2011</b>                           |
| <b>District/Field Office: Las Cruces, NM</b>             |
| <b>Resource Area: Geronimo Scenic Byway</b>              |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project in a panoramic landscape setting with VRM Class III designation and associated with the Geronimo Scenic Byway in Lake Valley. The proposed Project would cross flat terrain in a partial backdrop condition from a level view. Construction access disturbance to landform and vegetation would not be visible from the KOP. The proposed structures would be visible as the Project crosses the highway at approximately 0.5 mile, directly behind an existing similar project. The proposed Project would introduce strong contrast into the landscape for structure elements of form, with moderate contrast introduced for line, color, and texture. The viewing distance and partially backdropped condition, in consideration of similar structures visible, would result in an overall moderate-strong degree of contrast from this KOP. Selective mitigation measures #10 (maximize span at crossing) would reduce visual contrast.



*View to the west along the Geronimo Scenic Byway in Lake Valley.*

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| <b>Date:</b> February 18, 2011                           |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> Butterfield Historic Trail         |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                     |
|--|---|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC26 SR 26 and Butterfield Trail<br><b>VRM Class: II and III</b> | <b>Location:</b><br><br>Township: 21S<br><br>Range: 7W<br><br>Section: 27 | Location Sketch<br> |
|--|---|---------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures                            |
|----------------|--|---|---------------------------------------|
| <b>Form</b>    | FG: Flat, level<br>MG: Rounded hills   | FG: Homogeneous, low growing patches with random clumps<br>MG: Uniform      | FG: Geometric, thin, vertical (poles) |
| <b>Line</b>    | FG: Straight, horizontal; diagonal, narrow band, converging on horizon (road)<br>MG: Irregular, horizontal, diagonal | FG: Butt edge along road; weak transitional edge<br>MG: Weak, digitate edge | FG: Vertical, diagonal, horizontal    |
| <b>Color</b>   | FG: Tans; gray, white (road)<br>MG: Tans and browns  | FG/MG: Greens, tans, browns   | FG: Brown                             |
| <b>Texture</b> | FG/MG: Fine Grain  | FG: Medium to fine grain, low density, sparse<br>MG: Fine grain             | FG: Fine grain                        |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; convex, horizontal               |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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|--|
| <b>Date: February 18, 2011</b>                           |
| <b>District/Field Office: Las Cruces, NM</b>             |
| <b>Resource Area: Butterfield Historic Trail</b>         |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project, within a landscape setting with both VRM Class II and III designation and associated with the Butterfield Historic Trail. The proposed Project would cross relatively flat land and would be primarily skylined. Construction access disturbance to landform and vegetation would not be visible from the KOP. The proposed structures would be seen at approximately 0.2 mile and viewed in context with two similar smaller transmission lines (in front of the proposed Project) and a railroad on the opposite side of SR 26. With the presence of the existing transmission lines, the proposed structures would introduce weak contrast to structure elements of form, line, color, and texture.



*View to the southwest from SR 26, towards the Butterfield Historic Trail crossing.*

|  |
|--|
| <b>Date:</b> January 26, 2011                            |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> US Highway 180 Corridor            |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC27 US Route 180<br><b>VRM Class:</b> NA | <b>Location:</b><br>Township: 22S<br>Range: 9W<br>Section: 6 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures                         |
|----------------|--|---|------------------------------------|
| <b>Form</b>    | FG: Flat<br>BG: Pyramidal, geometric                                       | FG: Grouped "V"-shaped, stippled, conical<br>BG: Geometric patch          | FG: Tall thin vertical             |
| <b>Line</b>    | FG: Horizontal, diagonal band (road)<br>BG: Irregular horizontal, diagonal | FG: Strip and butt edge (at road), weak diffuse<br>BG: Weak digitate edge | FG: Vertical, horizontal, diagonal |
| <b>Color</b>   | FG: Reddish-browns and grays<br>BG: dulled blue-tan                        | FG: Greens, tan, golden, browns<br>BG: Dulled blue-green                  | FG: Brown                          |
| <b>Texture</b> | FG: Fine grain, smooth<br>BG: Medium grain                                 | FG: Medium to fine grain<br>BG: Fine grain                                | FG: Fine grain                     |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures  |
|----------------|----------------|------------|---|
| <b>Form</b>    | NA             | NA         | FG: Tall vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray   |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered              |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 Yes – See Simulation 28

**Evaluator Name(s):**  
 EPG Visual Personnel

|  |
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| <b>Date: January 26, 2011</b>                            |
| <b>District/Field Office: Las Cruces, NM</b>             |
| <b>Resource Area: US Highway 180 Corridor</b>            |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project within a panoramic landscape associated with dispersed residences along US Route 180, north of Deming. The proposed Project would cross flat land from a level view. Construction access disturbance to landform and vegetation would not be visible from the KOP. The proposed Project would be seen at approximately 0.5 mile and introduce strong contrast into the landscape for structure elements of form, line, and moderate color, and texture. Selective mitigation measure #10 (maximize span at crossing) would reduce contrast at this crossing.



*View to the southeast from US Route 180, north of Deming, New Mexico.*

|  |
|--|
| <b>Date:</b> May 15, 2011                                |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> Continental Divide Trail           |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                            |
|--|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC28 Continental Divide National Scenic Trail (north)<br><b>VRM Class: IV</b> (viewed from the Continental Divide Scenic Trail, not on BLM land) | <b>Location:</b><br>Township: 22S<br>Range: 17W<br>Section: 10 | <b>Location Sketch</b><br> |
|--|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures                         |
|----------------|--|---|------------------------------------|
| <b>Form</b>    | FG/MG: Horizontal, flat; subtle, undulation<br>BG: Smooth, rounded hills with occasional angular hills | FG/MG: Geometric patch, thin, vertical elements (yucca)<br>BG: Amorphous patches    | FG: Thin, vertical                 |
| <b>Line</b>    | FG/MG: Strong, horizontal<br>BG: Irregular, horizontal   | FG/MG: Straight band (at road), weak diffuse<br>BG: Irregular                       | FG: Vertical, horizontal, diagonal |
| <b>Color</b>   | FG/MG: Browns, tans, and grays<br>BG: Brown to dark brown  | FG/MG: Greens, olive, tan, golden, and brown<br>BG: Dulled bluish-green and yellows | FG: Brown                          |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Fine grain  | FG/MG: Medium to fine grain<br>BG: Fine grain                                       | FG: Fine Grain                     |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |

**Does project design meet visual resource management objectives?**  
 Yes

**Additional mitigating measures recommended?**  
 No – See Simulation 29

**Evaluator Name(s):**  
 EPG Visual Personnel

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|--|
| <b>Date: May 15, 2011</b>                                |
| <b>District/Field Office: Las Cruces, NM</b>             |
| <b>Resource Area: Continental Divide Trail</b>           |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a landscape setting viewed from the Continental Divide Scenic Trail while crossing VRM Class IV designated land. The proposed Project would cross relatively flat to slightly rolling terrain and would be backdropped by adjacent terrain for recreation viewers with a superior view. Construction access disturbance to landform and vegetation would not be visible from the KOP due to vegetation screening. The proposed structures would be seen at approximately 0.4 mile in context with existing transmission lines and a substation. The proposed structures would introduce weak structure contrast for the elements of form, line, color, and texture into the landscape.



*View southwest from the Continental Divide National Scenic Trail.*

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| <b>Date:</b> March 3, 2011                               |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                     |
|---|--|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC29 SR 90<br><b>VRM Class:</b> III | <b>Location:</b><br><br>Township: 21S<br><br>Range: 18W<br><br>Section: 35 | Location Sketch<br> |
|---|--|---------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures                         |
|----------------|--|--|------------------------------------|
| <b>Form</b>    | FG: Flat to rolling<br>MG: Irregular/rounded pyramidal                         | FG: Stippled, individual, short, columnar with tufted top; homogenous expansive (grasses)<br>MG: Amorphous expansive patch | FG: Thin vertical                  |
| <b>Line</b>    | FG: Horizontal, continuous diagonal band<br>MG: Irregular horizontal, diagonal | FG: Butt edge (at road)<br>MG: Weak diffuse to digitate edges  | FG: Vertical, horizontal, diagonal |
| <b>Color</b>   | FG: Light reddish brown, grays, white, yellow<br>MG: Bluish-tan                | FG: Tan to golden, medium to dark greens, brown<br>MG: Bluish-green  | FG: Brown                          |
| <b>Texture</b> | FG: Fine grain, smooth<br>MG: Fine to medium grain                             | FG: Fine to medium grain<br>MG: Fine grain   | FG: Fine grain                     |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | NA             | NA         | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | NA             | NA         | FG: Brown, dull, gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |                    | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|--------------------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |                    | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |                    | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |
| Elements | Degree of Contrast |                         |          |      |      |            |          |      |      |            |          |      |      |
|          | <b>Form</b>        |                         |          |      | X    |            |          |      | X    |            | X        |      |      |
|          | <b>Line</b>        |                         |          |      | X    |            |          |      | X    |            | X        |      |      |
|          | <b>Color</b>       |                         |          |      | X    |            |          |      | X    |            | X        |      |      |
|          | <b>Texture</b>     |                         |          |      | X    |            |          |      | X    |            | X        |      |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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|--|
| <b>Date: March 3, 2011</b>                               |
| <b>District/Field Office: Las Cruces, NM</b>             |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting with VRM Class III designation. The proposed Project would cross flat terrain and would be partially backdropped by adjacent terrain for travel route viewers with level views along SR 90. Construction access disturbance to landform and vegetation would not be visible from the KOP due to vegetation screening. The proposed Project would be seen at approximately 0.6 mile and would parallel an existing transmission line. The proposed structures would be larger and introduce moderate contrast into the landscape for structure elements of form, line, color, and texture. The viewing distance, in consideration of the presence of existing structures, would result in an overall moderate degree of contrast from this KOP. Selective mitigation measure #10 (maximize span at crossing) would reduce contrast at this crossing.



*View to the northeast from SR 90 north of Lordsburg, New Mexico.*

|  |
|--|
| <b>Date:</b> March 3, 2010                               |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC30 Lordsburg<br><b>VRM Class: II &amp; IV (Viewing from Lordsburg)</b> | <b>Location:</b><br>Township: 23S<br>Range: 18W<br>Section: 5 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures   |
|----------------|--|---|--|
| <b>Form</b>    | FG: Flat to gently rolling<br>MG: Pyramidal, low rolling | FG: Individual "V"-shaped, homogeneous expansive patch<br>MG: Geometric patches | FG: Thin vertical, geometric<br>MG: Thin vertical  |
| <b>Line</b>    | FG: Horizontal<br>MG: Irregular horizontal, diagonal     | FG: Weak butt/transitional edge<br>MG: Diffuse edges                            | FG: Vertical, diagonal, horizontal<br>MG: Vertical |
| <b>Color</b>   | FG: Browns and grays<br>MG: Brown to dark brown          | FG: Greens, olive, tan, golden, brown<br>MG: Golden, greens, browns             | FG: Brown, gray, and metallic<br>MG: Dull gray     |
| <b>Texture</b> | FG: Fine grain<br>MG: Fine to medium grain               | FG: Medium to fine grain<br>MG: Fine grain                                      | FG: Fine to medium grain<br>MG: Fine grain         |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | NA             | NA         | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | NA             | NA         | FG: Brown, dull, gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
 Yes

**Additional mitigating measures recommended?**  
 No – See Simulation 30

**Evaluator Name(s):**  
 EPG Visual Personnel

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| <b>Date: March 3, 2010</b>                               |
| <b>District/Field Office: Las Cruces, NM</b>             |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting with VRM Class II and IV designation. The Project would be sited within the West-wide Energy Corridor through those designations and viewed from residences in Lordsburg, New Mexico. The proposed Project would cross relatively flat to gently rolling land and would be partially skylined for residences with level views. Construction access disturbance to landform and vegetation would not be visible from the KOP due to vegetative screening. The proposed Project would be seen at approximately 0.8 mile, through distribution lines in the immediate foreground. The proposed structures would introduce moderate contrast to structure elements of form, line, color, and texture. The Project would be viewed in the foreground and in context with existing distribution lines, would result in an overall moderate degree of contrast from this KOP.



*View to the southwest from Lordsburg, New Mexico.*

|  |
|--|
| <b>Date:</b> March 3, 2010                               |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> Continental Divide Trail           |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC31 Continental Divide National Scenic Trail<br>(south)<br><b>VRM Class: II</b> | <b>Location:</b><br><br>Township: 23S<br><br>Range: 18W<br><br>Section: 8 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures   |
|----------------|--|--|--|
| <b>Form</b>    | FG/MG: Horizontal, flat; gently rolling<br>BG: Smooth, rounded hills; occasional angular hills | FG/MG: Low, amorphous, homogeneous patches; numerous, low, spherical (shrubs)<br>BG: Amorphous patches | FG: Low, geometric (sign); stipple rectangular (Lordsburg development) |
| <b>Line</b>    | FG/MG: Undulating, horizontal<br>BG: Irregular, continuous, horizontal                         | FG/MG: Diffuse edge<br>BG: Weak, digitate edge   | FG: Vertical; weak, broken vertical and horizontal (Lordsburg)         |
| <b>Color</b>   | FG/MG: Browns and grays<br>BG: Brown to dark brown   | FG/MG: Greens, olive, tan, golden, brown<br>BG: Golden, greens, browns                                 | FG: Green, white, blue,  |
| <b>Texture</b> | FG/MG/BG: Fine grain   | FG/MG: Fine to medium grain and density, uneven, random<br>BG: Fine grain                              | FG: Fine grain   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|                    |          | Features                |          |      |      |            |          |      |      |            |          |      |      |  |  |  |  |  |  |  |  |  |
|--------------------|----------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|--|--|--|--|--|--|--|--|
|                    |          | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |  |  |  |  |  |  |  |  |
|                    |          | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |  |  |  |  |  |  |  |  |  |
| Degree of Contrast | Elements |                         |          |      |      |            |          |      |      |            |          |      |      |  |  |  |  |  |  |  |  |  |
|                    | Form     |                         |          |      | X    |            |          |      |      |            |          |      |      |  |  |  |  |  |  |  |  |  |
|                    | Line     |                         |          |      | X    |            |          |      |      |            |          |      |      |  |  |  |  |  |  |  |  |  |
|                    | Color    |                         |          |      | X    |            |          |      |      |            |          |      |      |  |  |  |  |  |  |  |  |  |
|                    | Texture  |                         |          |      | X    |            |          |      |      |            |          |      |      |  |  |  |  |  |  |  |  |  |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
Yes – See Simulation 31

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: March 3, 2010</b>                               |
| <b>District/Field Office: Las Cruces, NM</b>             |
| <b>Resource Area: Continental Divide Trail</b>           |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Strong contrast would result from the construction and operation of the proposed Project, within a panoramic landscape setting with VRM Class II designation. The project would be sited within the West-wide Energy Corridor through this designation. The proposed Project would cross gently rolling terrain and would be primarily backdropped by adjacent terrain for recreation viewers with level views along the Continental Divide National Scenic Trail. Construction access disturbance to landform and vegetation would not be visible from the KOP because of low vegetative screening. The proposed structures would be seen at approximately 0.4 mile and would introduce strong contrast into the landscape for structure elements of form, line, color, and texture. The viewing distance from the proposed Project in a largely intact natural setting would result in a strong degree of contrast from this KOP. Selective mitigation measure #10 (maximize span at crossing) would help reduce contrast.



*View to the north from the Continental Divide Trail south of Lordsburg, New Mexico.*

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| <b>Date:</b> March 3, 2010                               |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>LC32 Shakespeare Ghost Town<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Latitude:<br>32° 19' 29.11 "N<br><br>Longitude:<br>108° 44' 18.69 "W<br>(township and range unavailable) | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water                                      | Vegetation  | Structures                     |
|----------------|---|---|--------------------------------|
| <b>Form</b>    | FG: Moderately rolling; smooth to rough             | FG: Amorphous patches, individual V-shaped shrubs | FG: Short, vertical, repeating |
| <b>Line</b>    | FG: Simple, bold, undulating, horizontal; irregular | FG: Butt edge at road; soft diffuse edges         | FG: Vertical and diagonal      |
| <b>Color</b>   | FG: Grays and light browns                          | FG: Light to dark green, golden, gray, brown      | FG: Dark green                 |
| <b>Texture</b> | FG: Medium grain                                    | FG: Uneven, medium grain and density              | FG: Fine grain                 |

### Proposed Activity Description (Facility)

|                | Landform/Water                           | Vegetation  | Structures   |
|----------------|--|---|--|
| <b>Form</b>    | FG: Broken horizontal strip              | FG: Amorphous patches, individual V-shaped shrubs | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Simple, bold, undulating, horizontal | FG: Horizontal curving, broken                    | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | FG: Gray, light brown                    | FG: Light to dark green, golden, gray, brown      | FG: Dull gray  |
| <b>Texture</b> | FG: Medium grain                         | FG: Uneven, medium grain and density              | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 Yes

**Evaluator Name(s):**  
 EPG Visual Personnel

|  |
|--|
| <b>Date:</b> March 3, 2010                               |
| <b>District/Field Office:</b> Las Cruces, NM             |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

Moderate-strong contrast would result from the construction and operation of the proposed Project, within an enclosed landscape setting associated with the Shakespeare Ghost Town. The proposed Project would cross moderately rolling terrain in a partially skylined for viewers at this historic recreation area. Construction access disturbance would introduce moderate contrast to the landform element of color, with weak contrast to form, line, and texture. Similarly, weak contrast to vegetation elements of form and line would be introduced into the landscape. The proposed structures would be visible at approximately 0.25 mile and would introduce strong contrast to structure elements of form and line, with moderate contrast introduced for color and texture. Selective mitigation measure #7 (self supporting lattice) would reduce contrast in this area.



*View to the southeast from the Shakespeare Ghost Town north of Lordsburg, New Mexico.*

|  |
|--|
| <b>Date:</b> February 18, 2010                           |
| <b>District/Field Office:</b> Roswell, NM                |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |   |
|--|---|---|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>RO1 County Road A020 Residence<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 2S<br><br>Range: 11E<br><br>Section: 27 | <b>Location Sketch</b><br> |
|--|---|---|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures   |
|----------------|--|--|--|
| <b>Form</b>    | FG: Gently rolling<br>MG: Moderate slopes, rounded, pyramidal                      | FG: Individual spherical, stippled, homogeneous patch<br>MG: Homogeneous expansive patch | FG: Short repeating vertical (fence); transparent triangular, circular |
| <b>Line</b>    | FG: Horizontal, straight narrow band (road)<br>MG: Undulating horizontal, diagonal | FG: Butt edge (road), diffuse edges<br>MG: Weak butt edge                                | FG: Vertical, horizontal, diagonal                                     |
| <b>Color</b>   | FG: Reddish-brown, tan<br>MG: Brown  | FG: Dark green to light green<br>MG: Dark green  | FG: Brown, grey, yellow, black   |
| <b>Texture</b> | FG/MG: Fine grain  | FG: Medium to fine grain<br>MG: Fine grain   | FG: Fine to medium   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | NA             | NA         | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | NA             | NA         | FG: Brown, dull, gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No

**Evaluator Name(s):**  
 EPG Visual Personnel

|  |
|--|
| <b>Date: February 18, 2010</b>                           |
| <b>District/Field Office: Roswell, NM</b>                |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project in a panoramic landscape setting associated with a residence along County Road A020. The proposed Project would cross rolling terrain in a partially backdropped condition from a level view. Construction access disturbance to landform and vegetation would not be visible from the KOP. The proposed Project would be visible at approximately 0.9 mile and would introduce strong contrast to structure elements of form and line, with moderate contrast introduced for color and texture into the landscape. The viewing distance of the proposed Project from the KOP in consideration of the Project occurring in a partially backdropped condition would result in an overall moderate-strong degree of contrast.



*View to northeast from residence along County Road A020, southwest of Corona, New Mexico.*

|  |
|--|
| <b>Date:</b> February 16, 2011                           |
| <b>District/Field Office:</b> Roswell, NM                |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>RO2 US Route 54 and Rest Area<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 2S<br><br>Range: 12E<br><br>Section: 29 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation                                   | Structures |
|----------------|--|--|------------|
| <b>Form</b>    | FG: Flat to gently rolling                               | FG: Low to medium, irregular patches         | NA         |
| <b>Line</b>    | FG: Horizontal, undulating; straight, narrow band (road) | FG: Irregular; straight butt edge (road)     | NA         |
| <b>Color</b>   | FG: Brown; gray, white (road)                            | FG: Dark green with patches of lighter green | NA         |
| <b>Texture</b> | FG: Fine, smooth   | FG: Fine; medium textured shrubs             | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 Yes

**Evaluator Name(s):**  
 EPG Visual Personnel

|  |
|--|
| <b>Date: February 16, 2011</b>                           |
| <b>District/Field Office: Roswell, NM</b>                |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project, within a panoramic landscape associated with the rest area located on US Route 54. The proposed Project would cross rolling terrain from a level view. Construction access disturbance to landform and vegetation would not be visible from the KOP due to screening by topography. The proposed structures would be seen at approximately 0.4 mile and would introduce strong contrast for structure elements of form and line, with moderate contrast introduced for color and texture into the landscape. The proposed Project would be partially screened by vegetation and rolling topography. The viewing distance, with the Project occurring in a partially backdropped condition with vegetative and landform screening, would result in an overall moderate-strong degree of contrast from this KOP. Selective mitigation measure #10 (maximize span at crossing) would reduce contrast as the project crosses US Route 54.



*View to the southwest from a rest area on US Route 54.*

|  |
|--|
| <b>Date:</b> May 31, 2011                                |
| <b>District/Field Office:</b> Rio Puerco, NM             |
| <b>Resource Area:</b> Salt Missions Trail                |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>RP1 SR 55 – Salt Missions Trail Scenic Byway<br><b>VRM Class:</b> NA | <b>Location</b><br><br>Township: 1N<br><br>Range: 8E<br><br>Section: 21 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation  | Structures                           |
|----------------|---|---|--------------------------------------|
| <b>Form</b>    | FG: Relatively flat to gently rolling<br>MG: Geometric, pyramidal | FG: Individual V-shaped, groupings, patch<br>MG: Weak stippled            | FG to BG: Geometric                  |
| <b>Line</b>    | FG: Horizontal<br>MG: Broken horizontal, diagonal                 | FG: Broken horizontal; diffuse and transitional edges<br>MG: Weak diffuse | FG to BG: Straight, rhythmic         |
| <b>Color</b>   | FG: Tans and browns<br>MG: Tan, reddish brown                     | FG: Greens, tans, and browns<br>MG: Greens                                | FG to BG: Gray, brown, yellow, white |
| <b>Texture</b> | FG: Fine grain<br>MG: Fine to middle grain                        | FG: Medium to fine grain<br>MG: Fine grain                                | FG to BG: Fine                       |

### Proposed Activity Description (Facility)

|                | Landform/Water            | Vegetation            | Structures  |
|----------------|---------------------------|-----------------------|---|
| <b>Form</b>    | FG: Geometric, thin       | FG: Geometric         | FG: Tall vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Horizontal and linear | FG: Linear            | FG: Complex angular; concave horizontal               |
| <b>Color</b>   | FG: Tans                  | FG: Tans, light green | FG: Dull gray   |
| <b>Texture</b> | FG: Fine                  | FG: Fine              | FG: Fine grain, matted, uniform, ordered              |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |  |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |
|                    |         | 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        |      |      |  |

**Does project design meet visual resource management objectives?**  
No

**Additional mitigating measures recommended?**  
Yes

**Evaluators Names:**  
EPG Visual Personnel

|  |
|--|
| <b>Date: May 31, 2011</b>                                |
| <b>District/Field Office: Rio Puerco, NM</b>             |
| <b>Resource Area: Salt Missions Trail</b>                |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project within a landscape associated with the Salt Missions Trail Scenic Byway (SR 55), north of Gran Quivira National Monument, New Mexico. The proposed Project would cross rolling terrain and would be partially backdropped by adjacent terrain. Disturbance to landform and vegetation due to construction access would be partially visible from the KOP. The proposed structures, cross the road perpendicular approximately 0.8 miles to the south, as seen from this KOP, and would introduce strong contrast into the landscape for structure elements of form, line, and color, with moderate contrast for texture. Selective mitigation #10 (maximize span at crossing) would reduce contrast at this crossing.



*View south from Salt Missions Trail Scenic Byway (SR 55), north of Gran Quivira National Monument, New Mexico.*

|  |
|--|
| <b>Date:</b> May 31, 2011                                |
| <b>District/Field Office:</b> Rio Puerco, NM             |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>RP2 SR 55 Residence<br><b>VRM Class:</b><br>NA | <b>Location</b><br><br>Township: 1N<br><br>Range: 9E<br><br>Section: 32 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

## Characteristic Landscape Description

|                | Landform/Water  | Vegetation  | Structures |
|----------------|---|---|------------|
| <b>Form</b>    | FG: Relatively flat to gently rolling<br>MG: Geometric, pyramidal | FG: Individual V-shaped, groupings, patch<br>MG: Weak stippled            | NA         |
| <b>Line</b>    | FG: Horizontal<br>MG: Broken horizontal, diagonal                 | FG: Broken horizontal; diffuse and transitional edges<br>MG: Weak diffuse | NA         |
| <b>Color</b>   | FG: Tans and browns<br>MG: Tan, reddish brown                     | FG: Greens, tans, and browns<br>MG: Greens                                | NA         |
| <b>Texture</b> | FG: Fine grain<br>MG: Fine to middle grain                        | FG: Medium to fine grain<br>MG: Fine grain                                | NA         |

## Proposed Activity Description (Facility)

|                | Landform/Water               | Vegetation                 | Structures  |
|----------------|------------------------------|----------------------------|---|
| <b>Form</b>    | FG to MG: Flat               | FG to MG: Geometric        | FG: Tall vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG to MG: Diagonal, straight | FG to MG: Linear, straight | FG: Complex angular; concave horizontal               |
| <b>Color</b>   | FG to MG: Brown, tan         | FG to MG: Greens, tan      | FG: Dull gray   |
| <b>Texture</b> | FG to MG: Fine               | FG to MG: Fine             | FG: Fine grain, matted, uniform, ordered              |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |  |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |
|                    |         | 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    |      |  |

**Does project design meet visual resource management objectives?**  
No

**Additional mitigating measures recommended?**  
No

**Evaluators Names:**  
EPG Visual Personnel

|  |
|--|
| <b>Date: May 31, 2011</b>                                |
| <b>District/Field Office: Rio Puerco, NM</b>             |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from the construction and operation of the proposed Project within a panoramic landscape near a dispersed residence along SR 55. The proposed Project would cross relatively flat to gently rolling terrain and would be partially backdropped for a residence with superior views. Construction access would introduce moderate contrast to line and color due to disturbance to landform and vegetation, and weak contrast to form and texture as visible from the KOP. The proposed structures would be seen at approximately 0.9 mile and introduce moderate contrast into the landscape for structure elements of form, line, color, and texture.



*View northeast from a dispersed residence along SR 55*

|   |
|---|
| <b>Date:</b> May 15, 2011                               |
| <b>District/Field Office:</b> Safford, AZ               |
| <b>Resource Area:</b> Peloncillo Mountain Wilderness    |
| <b>Activity (program):</b> Two 500kV transmission lines |

|   |   |   |
|---|---|---|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA1 Peloncillo Mountain Wilderness<br><b>VRM Class: IV (Viewed from VRM Class I land)</b> | <b>Location</b><br><br>Township: 13S<br><br>Range: 32E<br><br>Section: 17 | <b>Location Sketch</b><br> |
|---|---|---|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures                          |
|----------------|--|---|-------------------------------------|
| <b>Form</b>    | FG/MG: Flat, sloped to geometric masses<br>BG: Horizontal geometric mass | FG/MG: Homogenous patch to stippled<br>BG: Weak geometric patch | FG/MG: few low geometric            |
| <b>Line</b>    | FG/MG: Horizontal, diagonal, vertical<br>BG: Irregular horizontal        | FG/MG: Diffuse edge<br>BG: Weak digitate edge                   | FG/MG: weak horizontal and vertical |
| <b>Color</b>   | FG/MG: Light browns/tans<br>BG: Dulled blue-tan                          | FG/MG: Greens, golden, browns<br>BG: Dulled blue-green          | FG/MG: White, grays                 |
| <b>Texture</b> | FG/MG: Fine to medium grain<br>BG: Medium grain                          | FG/MG: Medium to fine grain<br>BG: Fine Grain                   | FG/MG: Fine grain                   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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          |          |      |      |

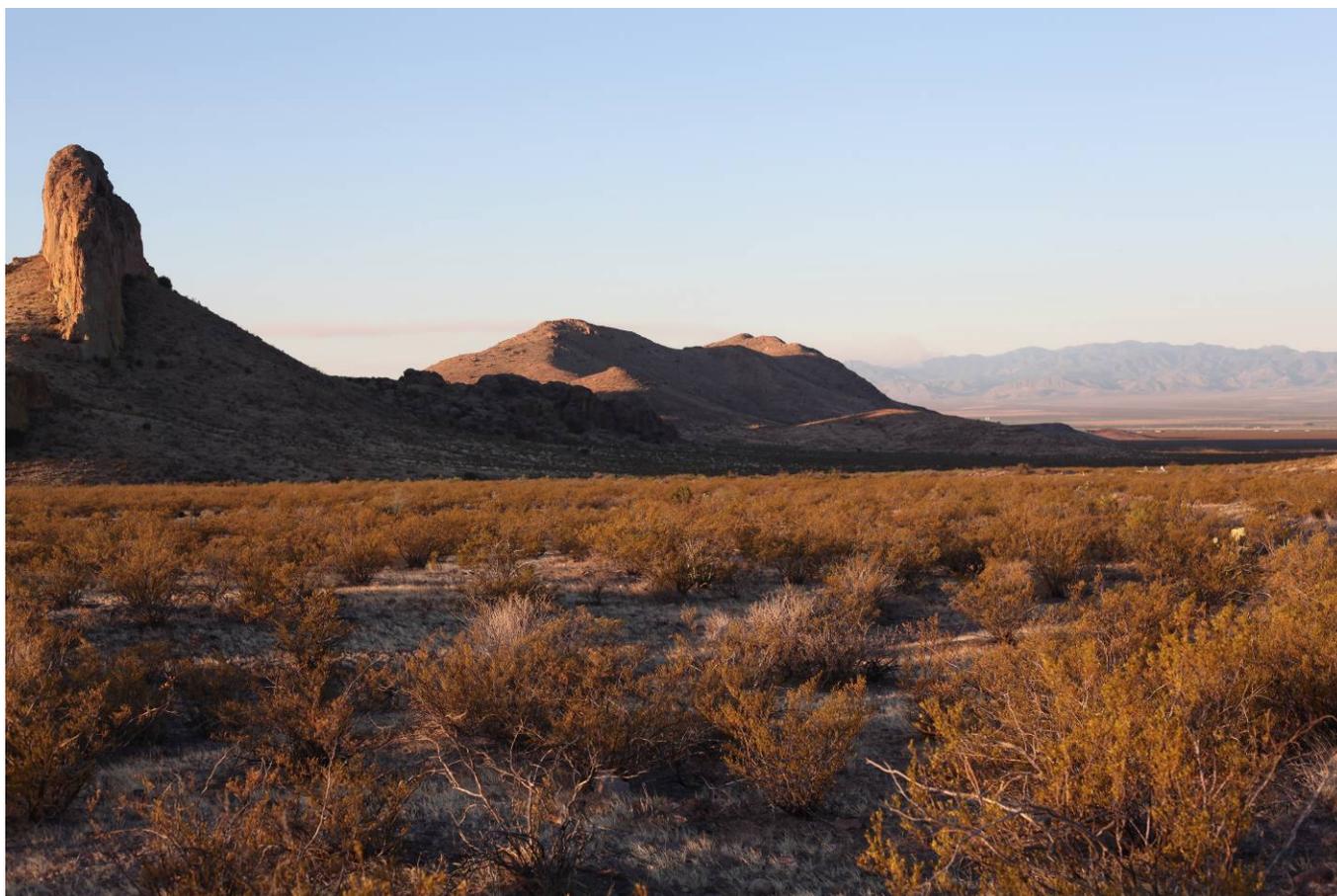
**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
Yes

**Evaluators Names:**  
EPG Visual Personnel

|   |
|---|
| <b>Date: May 15, 2011</b>                               |
| <b>District/Field Office: Safford, AZ</b>               |
| <b>Resource Area: Peloncillo Mountain Wilderness</b>    |
| <b>Activity (program): Two 500kV transmission lines</b> |

Strong contrast would result from the construction and operation of the proposed Project in a feature landscape setting in designated VRM Class IV land viewed near the Peloncillo Mountain Wilderness. The proposed Project would cross relatively level to gently rolling terrain and would be partially backdropped by terrain for recreation viewers with a slightly superior view. Disturbance associated with construction access would not be visible from the KOP due to vegetation screening. The proposed structures would be seen at approximately 0.30 mile and would introduce strong contrast for structure elements of form, line, and color, with moderate contrast introduced for texture into the landscape. The close, unobstructed views of the proposed Project would result in an overall strong degree of contrast from this KOP. Selective mitigation measure #7 (self supporting lattice structures) would reduce contrast in this area.



*View south from West Doubtful Canyon Road near the Peloncillo Mountain Wilderness.*

|  |
|--|
| <b>Date:</b> March 2, 2010                               |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                     |
|--|--|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA2 San Simon<br><b>VRM Class: III</b> (viewed from non-BLM) | <b>Location:</b><br><br>Township: 13S<br><br>Range: 31E<br><br>Section: 19 | Location Sketch<br> |
|--|--|---------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation                                      | Structures                           |
|----------------|--|---|--------------------------------------|
| <b>Form</b>    | FG: Flat<br>BG: Pyramidal                                    | FG: Low patches                                 | FG: Short, thin, repeating, vertical |
| <b>Line</b>    | FG: Horizontal, straight<br>BG: Irregular, broken horizontal | FG: Weak, butt edge (at property fence)         | FG: Vertical                         |
| <b>Color</b>   | FG: Light reddish/brown<br>BG: Medium to light brown         | FG: Light tan and sage, dark brown, red         | FG: Light to dark brown              |
| <b>Texture</b> | FG: Fine grain<br>BG: Fine to medium grain                   | FG: Medium grain, low to medium density, sparse | FG: Fine grain                       |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures  |
|----------------|----------------|------------|---|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal             |
| <b>Color</b>   | NA             | NA         | FG: Dull gray   |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered              |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

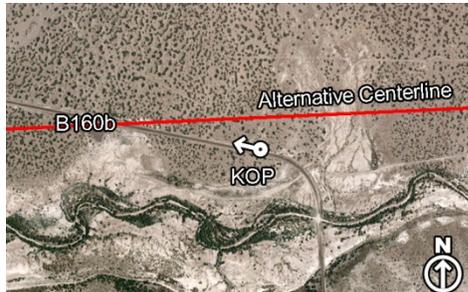
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|--|
| <b>Date: March 2, 2010</b>                               |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Strong contrast would result from the construction and operation of the proposed Project, within a feature landscape setting with VRM Class III designation near a residence adjacent to BLM land north of San Simon, Arizona. The proposed Project would cross relatively flat terrain with a level viewing condition; thus, disturbance associated with construction access would not be visible due to vegetation screening. Similarly, any modifications to vegetation associated with the Project would not be visible. The proposed structures would be seen at approximately 0.25 mile and would introduce strong contrast to structure elements of form, line, color, and texture. The close proximity of the proposed Project to residences with unobstructed views would result in an overall strong degree of contrast.



*View to the north from a residence on Ball Road, north of San Simon, Arizona.*

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| <b>Date:</b> March 2, 2010                               |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> Hot Well Dunes                     |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |   |
|---|---|---|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA3 Hackel Road<br><b>VRM Class:</b> IV | <b>Location:</b><br><br>Township: 11S<br><br>Range: 29E<br><br>Section: 8 | <b>Location Sketch</b><br> |
|---|---|---|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures |
|----------------|--|--|------------|
| <b>Form</b>    | FG/MG: Flat, horizontal to low rolling, mounding<br>BG: Prominent, jagged, irregular   | FG: Low, irregular; spherical to rounded, rectangular<br>MG: Homogeneous | NA         |
| <b>Line</b>    | FG/MG: Bold, diagonal; horizontal, smooth undulating<br>BG: Jagged, rugged, horizontal | FG: Butt edge, continuous, diagonal (road)<br>BG: Weak, digitate edge    | NA         |
| <b>Color</b>   | FG/MG: Tan; light gray (road)<br>BG: Dull, dark to light brown, dark green             | FG: Light tan and sage; dark brown, red<br>BG: Greens and tans           | NA         |
| <b>Texture</b> | Fine grain   | FG: Medium grain and density, uneven, random<br>BG: Fine grain           | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: March 2, 2010</b>                               |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: Hot Well Dunes</b>                     |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Strong contrast would result from the construction and operation of the proposed Project, within a focal landscape setting designated as VRM Class IV and associated with Hackel Road. The proposed Project would cross low mounding/rolling to flat terrain and would be partially backdropped for recreation viewers with a level view. Disturbance associated with construction access would not be visible from the KOP, because screening of the disturbance would occur from the rolling landform and the existing low vegetation. The proposed structures would be seen as the Project crosses the road at approximately 0.25 mile and would introduce strong contrast to structure elements of form, line, and color, with moderate contrast introduced into the landscape for texture. The close proximity of the Project crossing Hackel Road in focal landscape would result in an overall strong degree of contrast from this KOP. Selective mitigation measure #10 (maximize spans at crossing) would reduce contrast.



*View to the west from Hackel Road.*

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| <b>Date:</b> January 26, 2011                            |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA4 Artesia<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 9S<br><br>Range: 26E<br><br>Section: 6 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures   |
|----------------|--|---|--|
| <b>Form</b>    | FG: Flat to rounded, smooth, pyramidal<br>MG/BG: Complex, rounded, rugged, angular | FG/MG: Amorphous, low patch, strip, stippled<br>BG: Geometric patches             | FG: Thin, vertical, diagonal (distribution lines), rectangular |
| <b>Line</b>    | FG: Horizontal, diagonal<br>MG/BG: Complex, irregular, angular, horizontal, jagged | FG/MG: Butt edge (at road); diffuse, transitional edge<br>BG: Weak, digitate edge | FG: Vertical, diagonal   |
| <b>Color</b>   | FG: Light brown, tans<br>MG/BG: Tans, browns, white                                | FG/MG: Green to light green, golden<br>BG: Dark green                             | FG: Brown, white, black, grays                                 |
| <b>Texture</b> | FG: Fine to medium grain<br>MG/BG: Medium to coarse grain                          | FG/MG: Medium to coarse grain, random<br>BG: Medium to fine grain                 | FG: Fine grain   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
Yes – See Simulation 32

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: January 26, 2011</b>                            |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from the construction and operation of the proposed Project in a modified landscape setting without visual resource management designation. The Project would cross the foothills of the Pinaleño Mountains in a focal landscape and would be viewed by residences with an inferior view. Disturbance associated with construction access to landform and vegetation would not be visible from the KOP, due to the inferior viewing position and topographic screening. The proposed structures would be seen at approximately 0.4 mile, and would be minimally screened due to topography, with portions of the structures and conductors skylined. The Project would also be seen with existing similar structures (distribution lines) in the immediate foreground. The proposed structures would be larger than the existing structures and would introduce moderate contrast to structure elements of form, line, color, and texture into the landscape. The Project would be viewed in the presence of existing distribution lines and would be partially backdropped, resulting in an overall moderate degree of contrast from the KOP. Selective mitigation measure #10 (maximize span at crossing) would reduce visual contrast.



*View to the east from Quatro Cerros Road residence near Swift Trail Junction, Arizona.*

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|--|
| <b>Date:</b> January 26, 2011                            |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> Swift Trail Parkway                |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA5 Swift Trail Parkway (SR 366)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 8S<br><br>Range: 25E<br><br>Section: 25 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures                     |
|----------------|---|--|--------------------------------|
| <b>Form</b>    | FG: Flat to gently rolling<br>MG: Prominent, rugged, irregular                | FG: Low, horizontal<br>MG: Low, irregular  | FG: Low, linear                |
| <b>Line</b>    | FG: Smooth, straight, converging<br>MG: Bold, diagonal, rugged                | FG: Low, rugged<br>MG: Irregular   | FG: Bold, converging           |
| <b>Color</b>   | FG: Reddish brown, light brown; gray, white, yellow (road)<br>MG: Light brown | FG: Light greens, golden<br>MG: Light green to dark green with a blue hue caused by atmospheric haze | FG: Dark, reflective, monotone |
| <b>Texture</b> | FG: Medium, continuous<br>MG: Coarse, random                                  | FG: Fine to medium; dense, even<br>MG: Medium to coarse, medium density, random                      | FG: Fine                       |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |  |  |  |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|--|--|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |  |  |
|          |         | 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    |      |  |  |  |

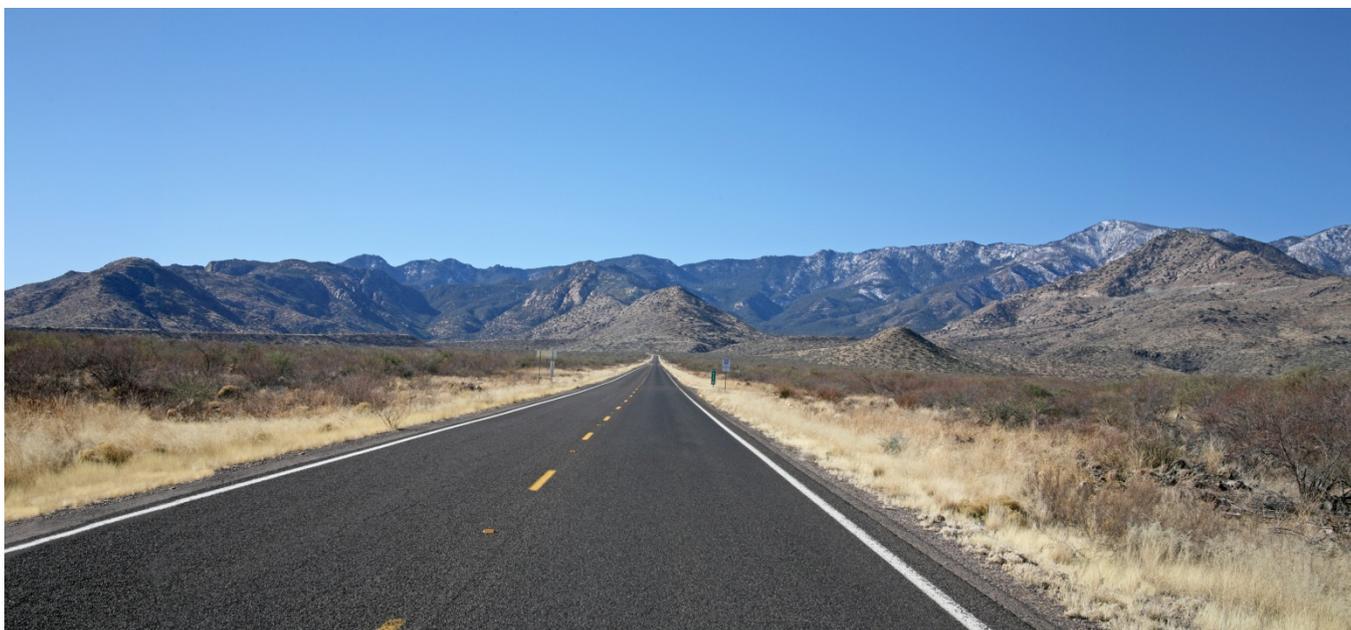
**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 Yes – See Simulations 33a and 33b

**Evaluator Name(s):**  
 EPG Visual Personnel

|  |
|--|
| <b>Date: January 26, 2011</b>                            |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: Swift Trail Parkway</b>                |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project in a feature landscape setting associated with views from the Swift Trail Parkway. The proposed Project would cross relatively flat terrain and terrain would backdrop the structures. Construction access disturbance to landform and vegetation would not be visible from the KOP because of the screening effects of existing vegetation. The proposed structures would be seen at approximately 0.5 mile and would introduce strong contrast into the landscape for structure elements of form and line, with moderate contrast for color and texture. The viewing distance with consideration of the proposed Project occurring in a backdropped condition would result in an overall moderate-strong degree of contrast from this KOP. Selective mitigation #7 (self supporting lattice) and #10 (maximize span at crossing) would reduce visual contrast for this area.



*View to the southwest from Swift Trail Parkway (SR 366).*

|  |
|--|
| <b>Date:</b> July 8, 2010                                |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA6 Lebanon Residences<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 8S<br><br>Range: 26E<br><br>Section: 18 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures                         |
|----------------|--|--|------------------------------------|
| <b>Form</b>    | FG: Flat, horizontal<br>MG: Prominent, pyramidal                 | FG: Short, amorphous<br>MG: Low, indistinct                | FG: Short, thin, repeating (fence) |
| <b>Line</b>    | FG: Weak, horizontal<br>MG: Bold, complex, irregular, horizontal | FG: Butt edge<br>MG: Weak, digitate edge                   | FG: Weak, vertical                 |
| <b>Color</b>   | FG: Light brown, reddish brown<br>MG: Light brown                | FG: Dark green, golden yellow<br>MG: Dulled green and gold | FG: Dark green                     |
| <b>Texture</b> | FG: Fine to medium grain<br>MG: Fine to medium grain             | FG: Medium grain and density<br>MG: Fine grain             | FG: Fine grain                     |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Thin vertical             |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No

**Evaluator Name(s):**  
 EPG Visual Personnel

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|--|
| <b>Date: July 8, 2010</b>                                |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a feature landscape setting associated with residences in Lebanon, Arizona. The proposed Project would cross relatively flat to slightly rolling terrain and would be backdropped by the Piñaleno Mountains. Existing vegetation would screen landform and vegetation disturbance associated with construction access. The proposed structures would be seen at approximately 3.0 miles in an entirely backdropped condition through breaks in vegetative screening that occur in the immediate foreground. The proposed Project would introduce weak contrast to structure elements of form, line, color, and texture into the landscape. The viewing distance with the Project occurring in a backdropped condition would result in a weak degree of contrast.



*View southwest from residential community in Lebanon, Arizona.*

|  |
|--|
| <b>Date:</b> July 9, 2010                                |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> Cluff Ranch Wildlife Area          |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                     |
|---|---|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA7 Cluff Ranch Wildlife Area<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 7S<br><br>Range: 24E<br><br>Section: 23 | Location Sketch<br> |
|---|---|---------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation  | Structures |
|----------------|---|---|------------|
| <b>Form</b>    | FG: Rolling to flat and contrasting land to water<br>MG: Bold prominent geometric/pyramidal | FG: Triangular vertical to low individual stippled spherical<br>MG: Stippled to geometric patches       | NA         |
| <b>Line</b>    | FG: Broken horizontal and diagonal  | FG: Irregular vertical and horizontal, butt edge (at ramp and water edge), diffuse<br>MG: Diffuse edges | NA         |
| <b>Color</b>   | FG/MG: Light browns/tans  | FG: Medium to light green<br>MG: Light green  | NA         |
| <b>Texture</b> | FG: Fine grain<br>MG: Coarse to fine grain, complex   | FG: Coarse to fine grain, random complex<br>MG: Medium to fine grain                                    | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water                               | Vegetation                            | Structures   |
|----------------|--|---------------------------------------|--|
| <b>Form</b>    | FG: Rolling                                  | FG: Low individual stippled spherical | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | FG: Irregular broken diagonal and horizontal | FG: Weak butt edge                    | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | FG: Light brown                              | FG: Light green                       | FG: Brown, dull, gray  |
| <b>Texture</b> | FG: Fine grain                               | FG: Fine grain                        | FG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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    |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: July 9, 2010</b>                                |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: Cluff Ranch Wildlife Area</b>          |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from the construction and operation of the proposed Project in a complex feature landscape setting. The proposed Project crosses foothills in sharply rolling land and would be viewed by recreation viewers with level views associated with Cluff Ranch. Disturbance associated with construction access would introduce weak contrast to landform elements of form, line, color, and texture. Similarly, modifications to vegetation associated with the Project would introduce weak contrast for vegetative elements of form and line. The proposed structures would be seen at approximately 0.8 mile in a backdropped condition through breaks in vegetation. The proposed Project would introduce moderate contrast to structure elements of form and line, with weak contrast to color and texture introduced into the landscape. Views of the Project would be backdropped for viewers in the foreground; therefore, a moderate level of contrast is anticipated from this KOP. Selective mitigation measure #7 would reduce contrast in this area.



*View to the southwest from Cluff Reservoir Boat Ramp in the Cluff Ranch Wildlife Area, Arizona.*

|  |
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| <b>Date:</b> July 9, 2010                                |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> Bear Springs ACEC                  |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA8 Bear Springs ACEC<br><b>VRM Class:</b> NA (KOP located in VRM Class II) | <b>Location:</b><br><br>Township: 7S<br><br>Range: 23E<br><br>Section: 10 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures |
|----------------|--|--|------------|
| <b>Form</b>    | FG: Flat<br>MG: Rolling to prominent pyramidal                                 | FG: Low homogeneous expansive patch<br>MG: Stippled to geometric patches | NA         |
| <b>Line</b>    | FG: Horizontal, diagonal band (road)<br>MG: Bold, complex, irregular, diagonal | FG: Butt edge (at road)<br>MG: Diffuse and digitate edges                | NA         |
| <b>Color</b>   | FG/MG: Light brown/reddish-brown   | FG: Greens, browns<br>MG: Dulled green/bluish-green and golden           | NA         |
| <b>Texture</b> | FG: Fine to medium grain<br>MG: Medium grain                                   | FG: Medium to fine grain, dense<br>MG: Fine grain                        | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | NA             | NA         | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | NA             | NA         | FG: Brown, dull, gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: July 9, 2010</b>                                |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: Bear Springs ACEC</b>                  |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project in a feature landscape setting viewed from within the Bear Springs ACEC (which has a VRM Class II designation). The proposed Project would cross relatively flat land and would be backdropped by the Piñaleno Mountains for recreation viewers with a level view. Disturbance to landform and vegetation associated with construction access would not be visible, because of the screening effects of the vegetation. The proposed structures would be seen at approximately 1.0 mile and would introduce moderate contrast into the landscape for structure elements of form and line, with weak contrast for color and texture. Due to vegetation screening, construction access disturbance would not be visible from the KOP and would be primarily backdropped for this portion of the route resulting in an overall weak-moderate degree of contrast from this KOP. Selective mitigation measure #7 (self supporting lattice structure) would reduce contrast in this area.



*View to the southwest from the Bear Springs ACEC, Arizona.*

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| <b>Date:</b> March 1, 2010                               |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> Stockton Pass Scenic Drive (FS)    |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA09 Bonita Aravaipa (East)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 10S<br><br>Range: 24E<br><br>Section: 5 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation  | Structures                     |
|----------------|---|---|--------------------------------|
| <b>Form</b>    | FG/MG: Gently rolling to flat<br>BG: Bold, jagged   | FG/MG: Amorphous patches and clumped groups<br>BG: Geometric patches      | FG: Rectangular (signs)        |
| <b>Line</b>    | FG/MG: Curving band (road) and weak, horizontal<br>BG: Bold, irregular horizontal, diagonal | FG/MG: Butt edge (at road), weak, diffuse edges<br>BG: Weak digitate edge | FG: Weak, horizontal, vertical |
| <b>Color</b>   | FG/MG: Light grey, light brown, white, yellow<br>BG: Indistinct                             | FG/MG: Light golden, greenish gray, tan<br>BG: Dulled blue-green          | FG: Blue, green, silver, white |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Medium grain   | FG/MG: Coarse grain, medium density<br>MG/BG: Fine grain                  | FG: Fine grain                 |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Weak, thin, vertical      |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |                    | Features                |          |      |      |            |          |      |      |            |          |      |      |  |  |  |  |  |  |  |   |  |  |  |  |
|----------|--------------------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|--|--|--|--|--|--|---|--|--|--|--|
|          |                    | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |  |  |  |  |  |  |   |  |  |  |  |
|          |                    | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |  |  |  |  |  |  |  |   |  |  |  |  |
| Elements | Degree of Contrast |                         |          |      | X    |            |          |      |      |            |          |      | X    |  |  |  |  |  |  |  | X |  |  |  |  |
|          | Form               |                         |          |      | X    |            |          |      |      |            |          |      | X    |  |  |  |  |  |  |  | X |  |  |  |  |
|          | Line               |                         |          |      | X    |            |          |      |      |            |          |      | X    |  |  |  |  |  |  |  | X |  |  |  |  |
|          | Color              |                         |          |      | X    |            |          |      |      |            |          |      | X    |  |  |  |  |  |  |  | X |  |  |  |  |
|          | Texture            |                         |          |      | X    |            |          |      |      |            |          |      | X    |  |  |  |  |  |  |  | X |  |  |  |  |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No

**Evaluator Name(s):**  
 EPG Visual Personnel

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| <b>Date: March 1, 2010</b>                               |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: Stockton Pass Scenic Drive (FS)</b>    |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting associated with views from Bonita Aravaipa Road (East). The proposed Project would cross relatively flat to slightly rolling terrain in a backdropped condition which would be viewed by travel route viewers with a slightly superior view. Because of the viewing distance and vegetative screening, disturbance to landform and vegetation associated with construction access would not be visible. The proposed structures would be seen at approximately 3.0 miles and have the potential to introduce weak contrast for structure elements of form, line, color, and texture into the landscape. The viewing distance with the Project occurring in a backdropped condition would result in an overall weak degree of contrast from this KOP.



*View to the southwest from Bonita Aravaipa Road (East).*

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| <b>Date:</b> February 25, 2010                           |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA10 Sulphur Springs Valley<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 12S<br><br>Range: 24E<br><br>Section: 32 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures   |
|----------------|---|--|--|
| <b>Form</b>    | FG/MG: Flat, level<br>BG: Bold numerous/divers pyramidal    | FG: Low, indistinct, amorphous<br>MG: Few circular, oval, triangular | FG: Tall, vertical, triangular transparent, rectangular, geometric |
| <b>Line</b>    | FG/MG: Horizontal, straight<br>BG: Bold, horizontal, rugged | FG: Butt edge<br>MG: Butt edge                                       | FG: Complex, angular; convex, horizontal, weak                     |
| <b>Color</b>   | FG/MG: Light reddish brown; gray, yellow (road)             | FG: Seasonal green, golden<br>MG/BG: Dulled green, tan               | FG: Dulled, dark gray, brown, yellow                               |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Coarse grain                       | FG: Fine grain   | FG: Fine grain, matted, uniform, ordered                           |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: February 25, 2010</b>                           |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project in a modified feature landscape setting associated with residences in the Sulphur Springs Valley. The proposed Project would cross flat terrain in a partially backdropped condition in front of existing similar structures, and would be viewed by residences with level viewing conditions. Disturbance to landform and vegetation elements from construction access would not be visible from the KOP. The proposed structures would be seen at approximately 0.25 mile and structure form would be slightly different than the existing structures. This would result in the introduction of moderate structure contrast for the elements of form and line, with weak contrast introduced for texture and color. The Project, occurring in a modified landscape with a partially backdropped condition and the presence of similar existing structures, would result in an overall weak-moderate degree of contrast.



*View to the northwest from a residence on Fort Grant Road in Sulphur Springs Valley, Arizona.*

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| <b>Date:</b> March 1, 2010                               |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> Stockton Pass Scenic Drive (FS)    |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                     |
|--|---|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA11 Bonita Aravaipa Road (West)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 9S<br>Range: 22E<br>Section: 26 | Location Sketch<br> |
|--|---|---------------------|

## Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures |
|----------------|---|--|------------|
| <b>Form</b>    | FG/MG: Flat to gently rolling<br>BG: Prominent, rugged, numerous, pyramidal           | FG/MG: Low, indistinct patches                               | NA         |
| <b>Line</b>    | FG/MG: Simple, horizontal, straight<br>BG: Complex, irregular, continuous, horizontal | FG/MG: Low, diffuse edge                                     | NA         |
| <b>Color</b>   | FG/MG: Reddish brown<br>MG: Dulled, light brown                                       | FG/MG: Light brown, green<br>BG: Dull and light brown, green | NA         |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Fine to medium grain   | FG/MG: Fine to medium grain; low to medium density, sparse   | NA         |

## Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

|          |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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|--|
| <b>Date: March 1, 2010</b>                               |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: Stockton Pass Scenic Drive (FS)</b>    |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project in a feature landscape setting along Bonita Aravaipa Road (part of the Stockton Pass scenic drive). The proposed Project would cross relatively flat to gently rolling terrain and would be partially backdropped by terrain for travel route viewers with a level view. Disturbance to both landform and vegetation associated with construction access would not be visible from the KOP. The proposed structures would be seen at approximately 0.5 mile and would introduce strong structure contrast to elements of form and line, with moderate contrast introduced for color and texture. The viewing distance and the introduction of the proposed structures in a partially backdropped condition would result in an overall moderate-strong degree of contrast. Selective mitigation measures #7 (self supporting lattice) and #10 (maximize span at crossing) would reduce contrast.



*View to the northwest from Bonita Aravaipa Road.*

|  |
|--|
| <b>Date:</b> March 1, 2010                               |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> Stockton Pass Scenic Drive (FS)    |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA12 Klondyke Road (East)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 7S<br><br>Range: 21E<br><br>Section: 22 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation  | Structures |
|----------------|---|---|------------|
| <b>Form</b>    | FG: Flat to moderately convex, rolling and rounded pyramidal<br>BG: Complex, horizontal | FG: Bold, irregular, spherical to amorphous patches | NA         |
| <b>Line</b>    | FG: Strong sweeping band, horizontal, diagonal<br>BG: Irregular, horizontal             | FG: Bold, butt edge (along roadway)                 | NA         |
| <b>Color</b>   | FG: Reddish brown   | FG: Dark brown, light to dark greens, gray          | NA         |
| <b>Texture</b> | FG: Fine to medium grain  | FG: Uneven, coarse grain, medium to high density    | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water                 | Vegetation                               | Structures   |
|----------------|--------------------------------|--|--|
| <b>Form</b>    | FG: Rounded, pyramidal         | FG: Low, individual, spherical           | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Irregular, broken, angular | FG: Weak, butt edge                      | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | FG: Reddish brown              | FG: Light to dark greens                 | FG: Dull gray  |
| <b>Texture</b> | FG: Fine grain                 | FG: Uneven, medium grain, medium density | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |  |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |
|                    |         | 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        |      |      |  |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: March 1, 2010</b>                               |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: Stockton Pass Scenic Drive (FS)</b>    |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project in a focal landscape setting along Klondyke Road (part of the Stockton Pass scenic drive). The proposed Project would cross gently to moderately steep rolling foothills and would be partially backdropped by terrain. Disturbance associated with construction access and or clearing for tower pad(s) may have the potential to be visible in the foothills and would introduce weak contrast to the landform elements of form, line, color, and texture. above the vegetative screening. Similarly, modifications to the vegetation elements of form and line may have the potential to introduce weak contrast into the landscape. The proposed structures would be seen as the Project crosses Klondyke Road and would introduce strong structure contrast for elements of form and line, with moderate contrast introduced for color and texture into the landscape. The viewing distance of the introduced structures and partial skyline condition would result in an overall moderate-strong degree of contrast from this KOP. Selective mitigation measures #7 (self supporting lattice) and #10 (maximize span at crossing) would help reduce contrast in this area.



*View to the south from Klondyke Road.*

|  |
|--|
| <b>Date:</b> March 1, 2010                               |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> Aravaipa                           |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |   |
|--|---|---|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA13 Klondyke Road (North)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 7S<br><br>Range: 20E<br><br>Section: 21 | <b>Location Sketch</b><br> |
|--|---|---|

### Characteristic Landscape Description

|                | Landform/Water                     | Vegetation                               | Structures                                       |
|----------------|------------------------------------|--|--|
| <b>Form</b>    | FG: Flat to rolling                | FG: High, amorphous patches              | FG: Thin, vertical, weak horizontal (conductors) |
| <b>Line</b>    | FG: Bold, curving, continuous band | FG: Bold, butt edge (along road)         | FG: Vertical, horizontal, diagonal               |
| <b>Color</b>   | FG: Light brown                    | FG: Green, tan, dark brown               | FG: Green, dark brown, grays                     |
| <b>Texture</b> | FG: Fine grain                     | FG: Uneven, coarse grain, medium density | FG: Fine grain                                   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: March 1, 2010</b>                               |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: Aravaipa</b>                           |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project in a focal landscape setting associated with dispersed residential and recreation access to Aravaipa Canyon. The proposed Project would cross flat to low rolling terrain and would be visible to travel route viewers with a level view. Disturbance to landform and vegetation would not be visible from the KOP due to vegetation screening. The proposed structures would be seen when crossing Klondyke Road and would be viewed in context with an existing distribution line. The proposed structures would introduce strong structure contrast for form and line, with moderate contrast for color and texture introduced into the landscape. The viewing distance of the proposed structures crossing Klondyke Road would result in an overall moderate-strong degree of contrast from this KOP. Selective mitigation measures #7 (self supporting lattice structure) and #10 (maximize span at crossing) would reduce contrast in this area.



*View to the southeast from Klondyke Road.*

|  |
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| <b>Date:</b> April 14, 2011                              |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> Aravaipa                           |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA14 Rug Road<br><b>VRM Class:</b> N/A | <b>Location:</b><br><br>Township: 7S<br><br>Range: 18E<br><br>Section: 34 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation                             | Structures |
|----------------|--|--|------------|
| <b>Form</b>    | FG/MG: Rugged geometric /pyramidal                     | FG/MG: Clumped groupings, low stippled | NA         |
| <b>Line</b>    | FG/MG: Diagonal, convex horizontal, weak bands (roads) | FG/MG: Butt edges (at roads), diffuse  | NA         |
| <b>Color</b>   | FG/MG: Light brown, brown, red, gray                   | FG/MG: Light and dark greens, browns   | NA         |
| <b>Texture</b> | FG/MG: Medium grain                                    | FG/MG: Medium grain and density        | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water                       | Vegetation                             | Structures  |
|----------------|--------------------------------------|--|---|
| <b>Form</b>    | FG/MG: Geometric /pyramidal          | FG/MG: Clumped groupings, low stippled | FG/MG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | FG/MG: Diagonal weak bands (roads)   | FG/MG: Butt edges (at roads), diffuse  | FG/MG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | FG/MG: Light brown, brown, red, gray | FG/MG: Light and dark greens, browns   | FG/MG: Brown, dull, gray  |
| <b>Texture</b> | FG/MG: Medium grain                  | FG/MG: Medium grain and density        | FG/MG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 Yes – See Simulations 34a and 34b

**Evaluator Name(s):**  
 EPG Visual Personnel

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| <b>Date: April 14, 2011</b>                              |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: Aravaipa</b>                           |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project in an enclosed/feature landscape setting viewed from Rug Road which provides recreation access to Aravaipa Canyon and Table Mountain ACEC. The proposed Project would cross rugged terrain resulting in both skylined and backdropped conditions for the transmission line structures and conductors. Construction access disturbance to landform associated with the Project would be visible and would introduce moderate contrast to landform elements of form, line, color, and texture. Similarly, moderate contrast to vegetation elements of form and line would be introduced into the landscape. The proposed structures would be seen at approximately 0.75 mile and introduce strong contrast into the landscape for structure elements of form, line, and color, with moderate contrast introduced for texture. The viewing distance with the Project in skylined and backdropped conditions, within a largely intact landscape setting, would result in an overall moderate-strong degree of contrast from this KOP. Selective mitigation measures #10 (maximize span at crossing), #11 (use of Permeon), and potentially #13 (helicopter placement of structures) would reduce contrast in this area.



*View to the north from Rug Road, Arizona.*

|  |
|--|
| <b>Date:</b> February 18, 2010                           |
| <b>District/Field Office:</b> Safford, AZ                |
| <b>Resource Area:</b> Muleshoe ACEC                      |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SA15 Muleshoe Ranch Road<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 14S<br><br>Range: 22E<br><br>Section: 3 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water                             | Vegetation  | Structures   |
|----------------|--|---|--|
| <b>Form</b>    | FG: Smooth, rolling to bold horizontal     | FG: Individual, numerous, irregular, low rough, spherical         | FG: Numerous, repeating, tall, vertical, transparent |
| <b>Line</b>    | FG: Simple, slightly undulating horizontal | FG: Butt edge (at road)   | FG: Regular, repeating, vertical                     |
| <b>Color</b>   | FG: Light brown, light reddish brown       | FG: Light tan, green, dark brown                                  | FG: Brown, dull gray                                 |
| <b>Texture</b> | FG: Medium to fine grain                   | FG: Uneven, coarse grain, low to medium density, sparse, stippled | FG: Fine grain, matted, uniform                      |

### Proposed Activity Description (Facility)

|                | Landform/Water                       | Vegetation   | Structures   |
|----------------|--------------------------------------|--|--|
| <b>Form</b>    | FG: Smooth, rolling                  | FG: Individual, numerous, irregular, low, rough, spherical | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Weak, broken horizontal          | FG: Weak butt edge   | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | FG: Light brown, light reddish brown | FG: Light tan, green, dark brown                           | FG: Dull gray  |
| <b>Texture</b> | FG: Fine grain                       | FG: Uneven, coarse grain, low to medium density, sparse    | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |  |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |
|                    |         | 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    |  |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: February 18, 2010</b>                           |
| <b>District/Field Office: Safford, AZ</b>                |
| <b>Resource Area: Muleshoe ACEC</b>                      |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project in a modified panoramic landscape setting along Muleshoe Ranch Road. The proposed Project would cross low rolling terrain and would be visible to travel route viewers with a slightly inferior view. Disturbance to the landform associated with construction access would introduce moderate contrast to the landform elements of color, with weak contrast introduced to form, line, and texture. Similarly, disturbance to vegetation would introduce weak contrast to vegetation elements of form and line. The vegetation occurs in a random distribution that allows for a largely unperceivable disturbance to the existing vegetation and will screen much of the disturbance to the landform elements. The proposed structures would be seen on the horizon and as the Project crosses Muleshoe Ranch Road at approximately 0.5 mile and would be viewed in context with existing transmission lines (approximately 1.0 mile from the KOP). The presence of existing similar structures would result in an overall weak-moderate degree of contrast introduced at this KOP. Selective mitigation measure #10 (maximize span at crossing) would reduce contrast in this area.



*View to the northwest from Muleshoe Ranch Road.*

|  |
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| <b>Date:</b> February 16, 2011                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO1 Claunch<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 2S<br><br>Range: 9E<br><br>Section: 9 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water                            | Vegetation   | Structures   |
|----------------|---|--|--|
| <b>Form</b>    | FG/MG: Flat                               | FG: Grouped, tall, roughly spherical (trees), homogeneous patch (grasses)<br>MG: Patch | FG: Few, tall, thin (distribution), numerous, short, thin (fence), rectangular |
| <b>Line</b>    | FG/MG: Horizontal                         | FG/MG: Butt edge (at road and on horizon)  | FG: Vertical, horizontal, diagonal   |
| <b>Color</b>   | FG/MG: Reddish brown, gray, white, yellow | FG/MG: Light to dark green, brown, golden  | FG: Brown, tan, white, green rust, gray  |
| <b>Texture</b> | FG/MG: Fine grain                         | FG/MG: Coarse to fine grain, sparse<br>BG: Fine grain                                  | FG: Fine grain   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: February 16, 2011</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project in a panoramic landscape setting associated with residences in Claunch, New Mexico. The Project would cross flat terrain from a level view. Construction access disturbance to landform and vegetation would not be visible from the KOP. The proposed structures would be seen at approximately 2.0 miles across the horizon, with other vertical structures visible in the foreground. The proposed structures would introduce moderate structure contrast for form and line, with weak contrast for color and texture into the landscape. The viewing distance, with consideration of existing vertical structures visible from the KOP, would result in an overall weak-moderate degree of contrast.



*View north from residence along SR 55 in Claunch, New Mexico.*

|  |
|--|
| <b>Date:</b> February 16, 2011                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> Gran Quivira                       |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO2a Gran Quivira unit of Salinas Pueblo Missions National Monument (Link E80c)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 1S<br><br>Range: 8E<br><br>Section: 3 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water                      | Vegetation                       | Structures                              |
|----------------|-------------------------------------|----------------------------------|---|
| <b>Form</b>    | FG/MG: Low, rolling hills, flat     | FG/MG: Amorphous patches         | FG: Low, rectangular, geometric (ruins) |
| <b>Line</b>    | FG/MG: Horizontal and simple angles | FG/MG: Digitate to diffuse edges | FG: Horizontal, vertical, diagonal      |
| <b>Color</b>   | FG/MG: Tans and browns              | FG/MG: Dark greens and browns    | FG: Browns, tans, reddish brown         |
| <b>Texture</b> | FG/MG: Fine grain                   | FG/MG: Fine to medium grain      | FG: Medium grain                        |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Weak, thin, vertical      |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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    |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No – See Simulation 1a

**Evaluator Name(s):**  
EPG Visual Personnel

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|--|
| <b>Date: February 16, 2011</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: Gran Quivira</b>                       |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project within a panoramic landscape with minimal cultural modifications, viewed from the Gran Quivira unit of Salinas Pueblo Missions National Monument. The Project would cross flat to slightly rolling terrain and would be backdropped for visitors of the National Monument with a superior view. Construction access disturbance to landform and vegetation would be slightly visible from the KOP. However, the project would be seen in the landscape at approximately 6 miles. The viewing distance of the proposed Project from the KOP, in consideration of the Project occurring in a backdropped condition, would result in an overall weak degree of contrast.



*View to the south from the Gran Quivira unit of Salinas Pueblo Missions National Monument (Approximately 6 miles).*

|  |
|--|
| <b>Date:</b> February 16, 2011                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> Gran Quivira                       |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO2b Gran Quivira unit of Salinas Pueblo Missions National Monument (Link E81)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 1S<br><br>Range: 8E<br><br>Section: 3 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water                      | Vegetation                       | Structures                              |
|----------------|-------------------------------------|----------------------------------|---|
| <b>Form</b>    | FG/MG: Low, rolling hills, flat     | FG/MG: Amorphous patches         | FG: Low, rectangular, geometric (ruins) |
| <b>Line</b>    | FG/MG: Horizontal and simple angles | FG/MG: Digitate to diffuse edges | FG: Horizontal, vertical, diagonal      |
| <b>Color</b>   | FG/MG: Tans and browns              | FG/MG: Dark greens and browns    | FG: Browns, tans, reddish brown         |
| <b>Texture</b> | FG/MG: Fine grain                   | FG/MG: Fine to medium grain      | FG: Medium grain                        |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No – See Simulation 1b

**Evaluator Name(s):**  
 EPG Visual Personnel

|  |
|--|
| <b>Date: February 16, 2011</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: Gran Quivira</b>                       |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project within a panoramic landscape with minimal cultural modifications, viewed from the Gran Quivira unit of Salinas Pueblo Missions National Monument. The Project would cross flat to slightly rolling terrain and would be backdropped for National Monument viewers with a superior view. Construction access disturbance to landform and vegetation would be visible from the KOP although contrast would be weak. The proposed structures would be seen at approximately 2.0 miles and would introduce moderate contrast to structure elements of form, line, color, and texture. The viewing distance of the proposed Project from the KOP, in consideration of the Project occurring in a backdropped condition, would result in an overall weak-moderate degree of contrast.



*View to the south from the Gran Quivira unit of Salinas Pueblo Missions National Monument (Approximately 2 miles).*

|   |
|---|
| <b>Date:</b> May 5, 2011                                |
| <b>District/Field Office:</b> Socorro, NM               |
| <b>Resource Area:</b> NA                                |
| <b>Activity (program):</b> Two 500kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO4 WSMR P Route 7<br><b>VRM Class:</b> IV (viewed from private land) | <b>Location</b><br><br>Township: 1S<br><br>Range: 5E<br><br>Section: 8 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures   |
|----------------|--|---|--|
| <b>Form</b>    | FG: Flat to gently sloped<br>MG: Geometric, pyramidal  | FG: Amorphous patch<br>MG: Geometric patch, stippled          | FG: Thin vertical, triangular transparent, geometric |
| <b>Line</b>    | FG: Horizontal<br>MG: Horizontal, diagonal             | FG: Weak diffuse, transitional edge<br>MG: Weak diffuse edges | FG: Vertical, diagonal, horizontal                   |
| <b>Color</b>   | FG: Tans and browns<br>MG: Tans, browns/reddish browns | FG/MG: Greens, tans and browns                                | FG: Browns, green, white, gray                       |
| <b>Texture</b> | FG: Fine grain<br>MG: Fine to medium grain             | FG: Medium grain<br>MG: Medium to fine grain                  | FG: Medium to fine grain                             |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                        |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |  |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |
|                    |         | Strong              | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |  |
| Elements           | Form    |                     |          |      | X    |            |          |      | X    |            |          |      |      |  |
|                    | Line    |                     |          |      | X    |            |          |      | X    | X          |          |      |      |  |
|                    | Color   |                     |          |      | X    |            |          |      | X    |            | X        |      |      |  |
|                    | Texture |                     |          |      | X    |            |          |      | X    |            | X        |      |      |  |

**Does project design meet visual resource management objectives?**  
 Yes

**Additional mitigating measures recommended?**  
 Yes – See Simulations 2a and 2b

**Evaluators Names:**  
 EPG Visual Personnel

|   |
|---|
| <b>Date: May 5, 2011</b>                                |
| <b>District/Field Office: Socorro, NM</b>               |
| <b>Resource Area: NA</b>                                |
| <b>Activity (program): Two 500kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project crossing VRM Class IV lands. The proposed Project would cross rolling terrain and would be partially backdropped for dispersed residential with level views. Construction access disturbance would be screened by existing vegetation from the KOP. The proposed structures would be visible at approximately 0.5 mile and introduce strong structure contrast into the landscape for line, with moderate contrast occurring for form, color, and texture. Selective mitigation measure #7 (self supporting lattice structure) would help reduce contrast in this area.



*View north/northeast from dispersed residence northeast of Socorro, New Mexico.*

|   |
|---|
| <b>Date:</b> May 3, 2011                                |
| <b>District/Field Office:</b> Socorro, NM               |
| <b>Resource Area:</b> NA                                |
| <b>Activity (program):</b> Two 500kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO5 Route 3617 Residence<br><b>VRM Class: IV</b> (viewed from land without VRM designation) | <b>Location</b><br><br>Township: 3S<br><br>Range: 4E<br><br>Section: 3 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures  |
|----------------|---|--|---|
| <b>Form</b>    | FG: Flat/sloped, geometric<br>MG: Horizontal geometric      | FG/MG: Sparse, low, irregular; spherical, individual and few patches and strips    | FG: Repeating vertical narrow (distribution line) |
| <b>Line</b>    | FG: Horizontal, diagonal<br>MG: Horizontal                  | FG: Weak diffuse edge, horizontal diagonal<br>MG: Geometric patches, diffuse edges | FG: Vertical                                      |
| <b>Color</b>   | FG/MG: Light to medium brown, light to medium reddish brown | FG/MG: Golden, gray, dark green  | FG: Brown   |
| <b>Texture</b> | FG/MG: Fine grain   | FG/MG: Fine to medium grain  | FG: Fine grain                                    |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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    |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluators Names:**  
EPG Visual Personnel

|   |
|---|
| <b>Date: May 3, 2011</b>                                |
| <b>District/Field Office: Socorro, NM</b>               |
| <b>Resource Area: NA</b>                                |
| <b>Activity (program): Two 500kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting with VRM Class IV designation. The Project would cross relatively flat/sloped terrain and would be backdropped by adjacent terrain. Views from a dispersed residence along Route 3601 would be partially screened by vegetation and topography. Construction access disturbance to landform and vegetation would not be visible from the KOP because existing vegetation would screen these features. The proposed Project would be seen at approximately 2.0 miles and introduce moderate contrast to structure elements of form and line, with weak contrast introduced into the landscape for color and texture.



*View east/southeast from dispersed residence along Route 3617.*

|  |
|--|
| <b>Date:</b> February 17, 2010                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                     |
|---|---|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO6 Route 3508 Residence<br><b>VRM Class: IV</b> (viewed from land without VRM designation) | <b>Location:</b><br>Township: 4S<br>Range: 6E<br>Section: 8 | Location Sketch<br> |
|---|---|---------------------|

## Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures |
|----------------|---|--|------------|
| <b>Form</b>    | FG/MG: Slightly sloped plain to flat<br>BG: Narrow horizontal rectangular | FG/MG: Individual to clumped spherical; patch and stippled<br>BG: Thin horizontal patches              | NA         |
| <b>Line</b>    | FG/MG: Weak diagonal/horizontal<br>BG: Irregular horizontal               | FG: Butt edge (at road) weak transitional edge<br>MG: Horizontal, weak diffuse edges<br>BG: Horizontal | NA         |
| <b>Color</b>   | FG/MG: Light tans/browns, light reddish brown<br>BG: Dulled bluish-tans   | FG/MG: Light to dark greens, tan, grays<br>BG: Dulled bluish-green                                     | NA         |
| <b>Texture</b> | FG/MG: Medium to fine grain<br>BG: Fine grain                             | FG: Coarse to medium grain<br>MG: Medium to fine grain<br>BG: Fine grain                               | NA         |

## Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | NA             | NA         | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | NA             | NA         | FG: Brown, dull, gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: February 17, 2010</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting with VRM Class IV designation. The proposed Project would cross relatively flat terrain to slightly sloped and rolling terrain in a partially backdropped condition. A dispersed residence along Route 3508 would have superior views; however, construction access disturbance to landform and vegetation would not be visible from the KOP due to vegetation screening. The proposed structures would be seen at approximately 1.0 mile and introduce moderate contrast into the landscape for the structure elements of form, line, color, and texture.



*View to the northwest from a residence along Route 3508, north of Bingham, New Mexico.*

|  |
|--|
| <b>Date:</b> February 19, 2010                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> U.S. Route 380 Corridor            |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO7 Bingham residence<br><b>VRM Class: III</b> (viewed from land without VRM designation) | <b>Location:</b><br><br>Township: 5S<br><br>Range: 5E<br><br>Section: 12 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures                                 |
|----------------|--|--|--|
| <b>Form</b>    | FG: Relatively flat<br>BG: Narrow, horizontal hills; plateau silhouettes | FG: Low, grouped "V"-shaped shrubs<br>MG: Amorphous patches        | FG: Low, repeating, thin, vertical (fence) |
| <b>Line</b>    | FG: Horizontal<br>BG: Irregular horizontal                               | FG: Butt edge (at road) and diffuse edge<br>MG: Weak digitate edge | FG: Vertical                               |
| <b>Color</b>   | FG: Reddish brown, gray<br>BG: Dulled bluish-tan                         | FG: Olive green, greens, golden<br>MG: Dulled bluish-green         | FG: White and green                        |
| <b>Texture</b> | FG/BG: Fine grain  | FG: Medium to fine grain<br>MG: Fine grain                         | FG: Fine grain                             |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |   |  |  |  |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|---|--|--|--|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |   |  |  |  |
|                    |         | 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 |  |  |  |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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|--|
| <b>Date: February 19, 2010</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: U.S. Route 380 Corridor</b>            |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting with VRM Class III designation. The proposed Project would cross flat terrain and would be visible to residences near US Route 380 with a level view. Construction access disturbance to landform and vegetation would not be visible from the KOP due to vegetation screening. The proposed structures would be seen at approximately 1.5 miles and would introduce moderate contrast to structure elements of form, line, color, and texture.



*View north from residences along US Route 380.*

|  |
|--|
| <b>Date:</b> February 16, 2010                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO8 Route 18 Residence<br><b>VRM Class:</b> III | <b>Location:</b><br><br>Township: 4S<br><br>Range: 3E<br><br>Section: 3 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures |
|----------------|--|---|------------|
| <b>Form</b>    | FG: Flat, gently rolling<br>MG: Elongated pyramidal, horizontal, rectangular       | FG: Sparse, low, amorphous patches<br>MG: Horizontal band, low, individual shrubs | NA         |
| <b>Line</b>    | FG: Horizontal and curving band (road)<br>MG: Complex, broken horizontal, diagonal | FG: Weak, butt edge (at road)<br>MG: Weak, diffuse edge (at foothill transition)  | NA         |
| <b>Color</b>   | FG: Tans and browns<br>MG: Red and dark browns, tans                               | FG: Greens, tans, browns<br>MG: Dark, olive greens, tans, browns                  | NA         |
| <b>Texture</b> | FG: Fine grain<br>MG: Fine to medium grain   | FG: Fine<br>MG: Stippled, uniform   | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water               | Vegetation                    | Structures   |
|----------------|------------------------------|-------------------------------|--|
| <b>Form</b>    | FG: Flat, slightly rolling   | FG: Low, amorphous patches    | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Weak, broken, horizontal | FG: Weak, butt edge (at road) | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | FG: Tans, browns             | FG: Greens, tans, browns      | FG: Dull gray  |
| <b>Texture</b> | FG: Fine grain               | FG: Fine, sparse              | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
No

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: February 16, 2010</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project within a landscape setting with VRM Class III designation. The proposed Project would cross rolling terrain which would be partially backdropped by adjacent terrain for dispersed residences along Route 18. Construction access disturbance would introduce weak contrast to landform elements of form, line, color, and texture into the landscape. Similarly, contrast to vegetation elements of form and line would be introduced. The proposed structures would be seen at approximately 0.5 mile and would introduce strong contrast into the landscape for structure elements of form and line, with moderate contrast for color and texture. The viewing distance and partially backdropped condition would result in a moderate-strong degree of contrast from this KOP. Selective mitigation measure #7 (self supporting lattice structures) would reduce contrast to moderate in this area where backdrop conditions would occur for the viewer; however, due to residential views within close proximity it would result in non-conformance for VRM Class III



*View to the northwest from a residence on Route 18.*

|  |
|--|
| <b>Date:</b> February 16, 2010                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> Quebradas Backcountry Byway        |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                            |
|--|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO9 Quebradas Backcountry Byway (south)<br><b>VRM Class: III</b> | <b>Location:</b><br><br>Township: 4S<br><br>Range: 2E<br><br>Section: 26 | <b>Location Sketch</b><br> |
|--|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation                                 | Structures                             |
|----------------|--|--|--|
| <b>Form</b>    | FG: Flat to gently rolling<br>BG: Narrow, horizontal silhouettes     | FG: Low, sparse, stippled                  | FG: Geometric, thin repeating vertical |
| <b>Line</b>    | FG: Horizontal, curving band (road edge)<br>BG: Irregular horizontal | FG: Butt edge (at road), weak diffuse edge | FG: Vertical, horizontal, diagonal     |
| <b>Color</b>   | FG: Brown, reddish brown<br>BG: Dulled bluish-tan and green          | FG: Green, tan, and brown                  | FG: Light to dark brown                |
| <b>Texture</b> | FG: Fine to relatively smooth<br>BG: Fine grain                      | FG: Fine to medium; uneven, random         | FG: Fine grain                         |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
 Yes

**Additional mitigating measures recommended?**  
 No – See Simulation 3

**Evaluator Name(s):**  
 EPG Visual Personnel

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|--|
| <b>Date: February 16, 2010</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: Quebradas Backcountry Byway</b>        |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting with VRM Class III designation and associated views from the Quebradas Backcountry Byway. The proposed Project would cross relatively flat terrain from a level to slightly superior view. Construction access disturbance to landform and vegetation would not be visible from the KOP due to screening by topography. The proposed structures would be seen at approximately 1.2 miles and would introduce moderate contrast for structure elements of form, line, color, and texture into the landscape.



*View to the south from along the Quebradas Backcountry Byway.*

|  |
|--|
| <b>Date:</b> February 16, 2010                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> U.S. Route 380 Corridor            |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO10 Trinity Site Historic Marker<br><b>VRM Class: III</b> | <b>Location:</b><br><br>Township: 5S<br><br>Range: 3E<br><br>Section: 7 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

## Characteristic Landscape Description

|                | Landform/Water  | Vegetation                                    | Structures                               |
|----------------|---|---|--|
| <b>Form</b>    | FG/MG: Relatively flat to gently rolling<br>BG: Low, horizontal strip, silhouette | FG/MG: Low, individual, random, stippled      | FG: Thin, vertical, and geometric (sign) |
| <b>Line</b>    | FG/MG: Horizontal, diagonal band (road)<br>BG: Undulating horizontal              | FG/MG: Butt edge (at road), weak diffuse edge | FG: Vertical, horizontal                 |
| <b>Color</b>   | FG/MG: Reddish brown, gray, white, yellow<br>BG: Dulled blue-green                | FG/MG: Light green, olive green, golden       | FG: Brown, red, white, yellow            |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Fine grain   | FG/MG: Fine to medium grain, random           | FG: Fine grain, even, ordered            |

## Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: February 16, 2010</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: U.S. Route 380 Corridor</b>            |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from construction and operation of the proposed Project within a panoramic landscape setting with VRM Class III designation. The proposed Project would cross flat terrain for viewers associated with the Trinity Site Historic Marker on US Route 380 with a level view. Construction access disturbance to the landform and vegetation would not be visible from the KOP due to vegetation screening. The proposed structures would be seen at approximately 1.0 mile and would introduce moderate contrast to structure elements of form, line, color, and texture.



*View to the north from the Trinity Site Historic Marker located along US Route 380.*

|  |
|--|
| <b>Date:</b> May 5, 2011                                 |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> Stallion WSA                       |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project             | <b>Location</b>                          | <b>Location Sketch</b><br> |
| <b>Key Observation Point:</b><br>SO11 Near Stallion WSMR/WSA S Route 3607 | Township: 1S<br>Range: 3E<br>Section: 32 |                            |
| <b>VRM Class: II &amp; III</b>  |  |                            |

### Characteristic Landscape Description

|                | Landform/Water                                     | Vegetation                                 | Structures                             |
|----------------|--|--|--|
| <b>Form</b>    | FG/MG: Slightly rolling/sloped to geometric masses | FG/MG: Groupings, strip, stippled          | FG/MG: Tall geometric, and cylindrical |
| <b>Line</b>    | FG/MG: Curving band, horizontal, diagonal          | FG/MG: Diffuse edges, horizontal, diagonal | FG/MG: Vertical, diagonal, horizontal  |
| <b>Color</b>   | FG/MG: Tans and browns                             | FG/MG: Greens, tans and browns             | FG/MG: Brown, black                    |
| <b>Texture</b> | FG/MG: Fine to medium grain                        | FG/MG: Medium grain, medium density        | FG/MG: Fine grain                      |

### Proposed Activity Description (Facility)

|                | Landform/Water                                     | Vegetation                                 | Structures  |
|----------------|--|--|---|
| <b>Form</b>    | FG/MG: Slightly rolling/sloped to geometric masses | FG/MG: Groupings, strip, stippled          | FG/MG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG/MG: Horizontal                                  | FG/MG: Diffuse edges, horizontal, diagonal | FG/MG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | FG/MG: Tans and browns                             | FG/MG: Greens, tans and browns             | FG/MG: Dull gray  |
| <b>Texture</b> | FG/MG: Fine grain                                  | FG/MG: Medium grain, medium density        | FG/MG: Fine grain, matted, uniform                        |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
No

**Additional mitigating measures recommended?**  
Yes – See Simulations 4a and 4b

**Evaluators Names:**  
EPG Visual Personnel

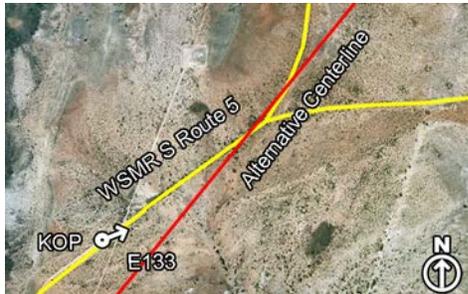
|  |
|--|
| <b>Date: May 5, 2011</b>                                 |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: Stallion WSA</b>                       |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from the construction and operation of the proposed Project, within an enclosed landscape setting with VRM Class II and III designation, associated with WSMR S Route 3607 and the Stallion WSA (to the east). The proposed Project would cross rolling terrain in a backdrop condition from a slightly superior view. Construction access disturbance would introduce weak contrast for landform elements of line and color into the landscape. Similarly, weak contrast to the vegetation element of line would be introduced. The proposed structures would be seen at approximately 0.9 mile and introduce moderate structure contrast into the landscape for form, line, color, and texture. Selective mitigation #7 (self supporting lattice structure) would reduce contrast in this area where the structures would be backdropped by landform.



*View north from Route 3607, west of Stallion WSA.*

|  |
|--|
| <b>Date:</b> May 6, 2011                                 |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> Veranito                           |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |   |
|---|---|---|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO13 WSMR S Route 5/ Veranito WSA<br><b>VRM Class: II</b> | <b>Location</b><br><br>Township: 2S<br><br>Range: 1E<br><br>Section: 11 | <b>Location Sketch</b><br> |
|---|---|---|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures |
|----------------|--|--|------------|
| <b>Form</b>    | FG: Relatively flat to gently rolling<br>MG: Horizontal geometric, pyramidal | FG: Amorphous patch, stippled<br>MG: Stippled                | NA         |
| <b>Line</b>    | FG: Horizontal, straight band<br>MG: Irregular horizontal, diagonal          | FG: Butt edge at road, diffuse edge<br>MG: Weak diffuse edge | NA         |
| <b>Color</b>   | FG/MG: Tans and browns   | FG/MG: Greens, tans and browns                               | NA         |
| <b>Texture</b> | FG/MG: Fine grain  | FG: Medium grain, medium density<br>MG: Fine grain           | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water                        | Vegetation                          | Structures   |
|----------------|---------------------------------------|-------------------------------------|--|
| <b>Form</b>    | FG: Relatively flat to gently rolling | FG: Amorphous patch, stippled       | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: diagonal band                     | FG: Butt edge at road, diffuse edge | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | FG: Tans and Browns                   | FG: Greens, tans and browns         | FG: Dull gray  |
| <b>Texture</b> | FG: Fine grain                        | FG: Medium grain, medium density    | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
No

**Additional mitigating measures recommended?**  
Yes

**Evaluators Names:**  
EPG Visual Personnel

|  |
|--|
| <b>Date: May 6, 2011</b>                                 |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: Veranito</b>                           |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Strong contrast would result from the construction and operation of the proposed Project in a landscape setting with designated VRM Class II land associated with WSMR S Route 5 (east of Veranito WSA). The proposed Project would cross relatively flat to gently rolling terrain and would be partially backdropped by adjacent terrain. Disturbance associated with construction access would introduce weak contrast to landform elements of line and color. Similarly, weak contrast would be introduced for vegetation elements of form and line. The proposed structures would be seen at approximately 0.3 mile and would introduce strong contrast for structure elements of form, line, and color, and texture into the landscape. Unobstructed views of the Project within the immediate foreground would result in an overall strong degree of contrast from this KOP. Selective mitigation measures #7 (self supporting lattice structure) and #10 (maximize span at crossing) would reduce contrast in this area.



*View northeast along Route 5, east of the Veranito WSA.*

|   |
|---|
| <b>Date:</b> May 6, 2011                                |
| <b>District/Field Office:</b> Socorro, NM               |
| <b>Resource Area:</b> Gordy's Hill SRMA                 |
| <b>Activity (program):</b> Two 500kV transmission lines |

|   |   |   |
|---|---|---|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO14 Gordy's Hill Recreation Area<br><b>VRM Class: IV</b> | <b>Location</b><br><br>Township: 2S<br><br>Range: 1E<br><br>Section: 17 | <b>Location Sketch</b><br> |
|---|---|---|

### Characteristic Landscape Description

|                | Landform/Water                       | Vegetation   | Structures                  |
|----------------|--------------------------------------|--|-----------------------------|
| <b>Form</b>    | FG: Flat to prominent geometric mass | FG: Geometric patches, stippled                                  | FG: Thin vertical           |
| <b>Line</b>    | FG: Horizontal, diagonal, curving    | FG: Butt edge, transitional and diffuse edges                    | FG: Vertical, weak diagonal |
| <b>Color</b>   | FG: Tans, browns, reddish browns     | FG: Greens, tans and browns<br>Dark/olive greens and tans/browns | FG: Brown                   |
| <b>Texture</b> | FG: Fine to medium grain             | FG: Medium grain   | FG: Fine grain              |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                        |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |                    | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|--------------------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |                    | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |                    | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |
| Elements | Degree of Contrast |                         |          |      |      |            |          |      |      |            |          |      |      |
|          | <b>Form</b>        |                         |          | x    |      |            |          |      |      | x          | x        |      |      |
|          | <b>Line</b>        |                         |          | x    |      |            |          |      |      | x          |          |      |      |
|          | <b>Color</b>       |                         |          |      | x    |            |          |      |      | x          | x        |      |      |
|          | <b>Texture</b>     |                         |          |      | x    |            |          |      |      | x          | x        |      |      |

**Does project design meet visual resource management objectives?**  
 Yes

**Additional mitigating measures recommended?**  
 Yes – See Simulation 5a and 5b

**Evaluators Names:**  
 EPG Visual Personnel

|   |
|---|
| <b>Date: May 6, 2011</b>                                |
| <b>District/Field Office: Socorro, NM</b>               |
| <b>Resource Area: Gordy's Hill SRMA</b>                 |
| <b>Activity (program): Two 500kV transmission lines</b> |

Strong contrast would result from the construction and operation of the proposed Project, within a panoramic landscape setting with VRM Class IV designation and associated with the Gordy Hill SRMA. The proposed Project would cross rolling terrain and would be partially skylined for a short duration as well as partially backdropped by adjacent terrain. Construction access disturbance would introduce weak contrast for landform elements of line and color into the landscape. Similarly, weak contrast to the vegetation element of line would be introduced. The proposed structures would be seen at approximately 0.4 mile with distribution lines visible. The proposed structures would introduce strong structure contrast into the landscape for form, line, color, and texture. Selective mitigation measures #7 (self supporting lattice) would reduce contrast in this area where backdrop conditions occur.



*View southeast towards the Gordy Hill SRMA.*

|  |
|--|
| <b>Date:</b> February 17, 2011                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> Quebradas Backcountry Byway        |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                            |
|--|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO15 Quebradas Backcountry Byway (north)<br><b>VRM Class:</b> IV | <b>Location:</b><br><br>Township: 2S<br><br>Range: 1E<br><br>Section: 29 | <b>Location Sketch</b><br> |
|--|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures |
|----------------|--|---|------------|
| <b>Form</b>    | FG/MG: Geometric masses, rolling<br>BG: Pyramidal, rugged                | FG: Complex clumped groupings, patches<br>MG/ BG: Homogeneous expansive and geometric patches | NA         |
| <b>Line</b>    | FG/MG: Band, horizontal, diagonal<br>BG: Irregular horizontal, diagonals | FG: Continuous, complex<br>MG /BG: Not discernible, weak diagonals                            | NA         |
| <b>Color</b>   | FG/MG: Light to dark brown<br>BG: Dulled bluish-tan                      | FG/MG: Olive green, greens and browns<br>MG/ BG: Dulled bluish-tan and green                  | NA         |
| <b>Texture</b> | FG/MG: Fine to medium grain<br>BG: Medium grain                          | FG/MG: Fine to medium, dense, even<br>MG/ BG: Not discernible                                 | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | NA             | NA         | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | NA             | NA         | FG: Brown, dull, gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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    |      |

**Does project design meet visual resource management objectives?**  
 Yes

**Additional mitigating measures recommended?**  
 No – See Simulation 6

**Evaluator Name(s):**  
 EPG Visual Personnel

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|--|
| <b>Date: February 17, 2011</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: Quebradas Backcountry Byway</b>        |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project within a focal landscape setting with VRM Class IV designation and associated with the Quebradas Backcountry Byway and the Rio Grande. The proposed Project crosses rolling terrain to river flats in a partially screened and backdropped condition from a superior view. Construction access disturbance to landform and vegetation would not be visible from the KOP due to screening by topography. The proposed structures would be visible at approximately 1 mile and introduce strong contrast to structure elements of line, with moderate contrast to form and weak contrast to color and texture. The viewing distance in consideration of the backdropped condition would result in a moderate-strong degree of contrast from the KOP.



*View to the northwest from the Quebradas Backcountry Byway, north of Socorro, New Mexico.*

|  |
|--|
| <b>Date:</b> February 17, 2011                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> Rio Grande                         |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO16 Rio Grande<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 2S<br><br>Range: 1E<br><br>Section: 19 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation                             | Structures |
|----------------|---|--|------------|
| <b>Form</b>    | FG: Strong directional, axial (water); low, flat (floodplain) | FG: Mounding, spherical, complex, tall | NA         |
| <b>Line</b>    | FG: Horizontal  | FG: Complex, irregular                 | NA         |
| <b>Color</b>   | FG: Dark brown, brown, blues                                  | FG: Variations of green, browns        | NA         |
| <b>Texture</b> | FG: Smooth (water); fine (floodplain)                         | FG: Fine to coarse, dense              | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |                    | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|--------------------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |                    | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |                    | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |
| Elements | Degree of Contrast |                         |          |      |      |            |          |      |      |            |          |      |      |
|          | <b>Form</b>        |                         |          |      | X    |            |          |      | X    | X          |          |      |      |
|          | <b>Line</b>        |                         |          |      | X    |            |          |      | X    | X          |          |      |      |
|          | <b>Color</b>       |                         |          |      | X    |            |          |      | X    | X          |          |      |      |
|          | <b>Texture</b>     |                         |          |      | X    |            |          |      | X    |            | X        |      |      |

|  |
|--|
| <b>Does project design meet visual resource management objectives?</b><br>NA |
| <b>Additional mitigating measures recommended?</b><br>Yes – See Simulation 7 |
| <b>Evaluator Name(s):</b><br>EPG Visual Personnel                            |

|  |
|--|
| <b>Date: February 17, 2011</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: Rio Grande</b>                         |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project in a focal landscape setting associated with views from the Rio Grande along Chaparral Loop Road. The proposed Project would cross flat terrain from a level view. Construction access disturbance would not be visible from the KOP because of the dense vegetative screening along the banks of the river. Portions of the proposed Project would be seen above and through breaks in the vegetative screening at approximately 0.3 mile and would introduce strong contrast to structure elements of form, line, and color, with moderate contrast to texture introduced into the landscape. The viewing distance from the Project with the Project crossing a focal landscape, in consideration of the presence of some vegetative screening, would result in a moderate-strong degree of contrast from this KOP. Selective mitigation measures #10 (maximize span at crossing) and #14 (selective vegetation removal) would reduce contrast at this crossing.



*View to the south from Chaparral Loop Road, crossing the Rio Grande.*

|   |
|---|
| <b>Date:</b> May 5, 2011                                |
| <b>District/Field Office:</b> Socorro, NM               |
| <b>Resource Area:</b> El Camino Real                    |
| <b>Activity (program):</b> Two 500kV transmission lines |

|   |   |   |
|---|---|---|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO17 State Route 408 (El Camino Real)<br><b>VRM Class: IV</b> | <b>Location</b><br><br>Township: 2S<br><br>Range: 1W<br><br>Section: 25 | <b>Location Sketch</b><br> |
|---|---|---|

### Characteristic Landscape Description

|                | Landform/Water                          | Vegetation                                   | Structures                         |
|----------------|---|--|------------------------------------|
| <b>Form</b>    | FG: Flat to triangular/geometric        | FG: Low patches, strips                      | FG: Thin vertical, geometric       |
| <b>Line</b>    | FG: Curving bands, horizontal, diagonal | FG: Butt and transitional edges              | FG: Vertical, horizontal, diagonal |
| <b>Color</b>   | FG: Light browns, and gray              | FG: Light to dark green, sage, golden, brown | FG: Brown, tan, grey, white        |
| <b>Texture</b> | FG: Fine to medium grain                | FG: Uneven medium grain and density          | FG: Fine grain                     |

### Proposed Activity Description (Facility)

|                | Landform/Water                   | Vegetation                                   | Structures   |
|----------------|----------------------------------|--|--|
| <b>Form</b>    | FG: Flat to triangular/geometric | FG: Low patches, strips,                     | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Horizontal                   | FG: Butt and transitional edges              | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | FG: Light browns, and gray       | FG: Light to dark green, sage, golden, brown | FG: Dull gray  |
| <b>Texture</b> | FG: Fine to medium grain         | FG: Uneven medium grain and density          | FG: Fine grain, matted, uniform                        |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
 Yes

**Additional mitigating measures recommended?**  
 Yes – See Simulation 8

**Evaluators Names:**  
 EPG Visual Personnel

|   |
|---|
| <b>Date: May 5, 2011</b>                                |
| <b>District/Field Office: Socorro, NM</b>               |
| <b>Resource Area: El Camino Real</b>                    |
| <b>Activity (program): Two 500kV transmission lines</b> |

Strong contrast would result from the construction and operation of the proposed Project in a panoramic landscape setting with designated VRM Class IV land (on the west of the road) viewed from land without visual resource management designation. The proposed Project would cross relatively level to rolling terrain and would be partially backdropped for travel route viewers along SR 408 with a level view. Disturbance associated with construction access would not be visible from the KOP. The proposed structures would be seen at approximately 0.3 mile and would introduce strong contrast for structure elements of form, line, and color, with moderate contrast introduced for texture into the landscape. Unobstructed views of the Project within close proximity would result in an overall strong degree of contrast from this KOP. Selective mitigation measure #10 (maximize span at crossing) would reduce contrast.



*View north from State Route 408, north of Socorro, New Mexico.*

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|--|
| <b>Date:</b> February 17, 2011                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                     |
|--|--|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO18 Socorro<br><b>VRM Class:</b> IV (viewed from Socorro) | <b>Location:</b><br><br>Township: 2S<br><br>Range: 1W<br><br>Section: 25 | Location Sketch<br> |
|--|--|---------------------|

### Characteristic Landscape Description

|                | Landform/Water                                      | Vegetation   | Structures  |
|----------------|---|--|---|
| <b>Form</b>    | FG: Flat<br>MG: Geometric plateau                   | FG: Tall individual, numerous, pyramidal and spherical, low patch/strip<br>MG: Low individual, stippled, spherical | FG/MG: numerous individual, tall narrow rectangular (buildings) |
| <b>Line</b>    | FG: Curving band (road)<br>MG: Horizontal, diagonal | FG: Butt edge (at road)<br>MG: Weak diffuse  | FG/MG: Vertical, horizontal, diagonal                           |
| <b>Color</b>   | FG/MG: Light browns, grey                           | FG/MG: Light to dark green, sage, golden, brown  | FG/MG: Brown, light yellow and salmon, white, deep red          |
| <b>Texture</b> | FG/MG: Fine grain                                   | FG/MG: Medium grain and density  | FG/MG: Fine grain   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | NA             | NA         | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | NA             | NA         | FG: Brown, dull, gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |                    | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|--------------------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |                    | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |                    | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |
| Elements | Degree of Contrast |                         |          |      |      |            |          |      |      |            |          |      |      |
|          | <b>Form</b>        |                         |          |      | X    |            |          |      | X    | X          |          |      |      |
|          | <b>Line</b>        |                         |          |      | X    |            |          |      | X    | X          |          |      |      |
|          | <b>Color</b>       |                         |          |      | X    |            |          |      | X    |            |          | X    |      |
|          | <b>Texture</b>     |                         |          |      | X    |            |          |      | X    |            |          | X    |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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|--|
| <b>Date: February 17, 2011</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from construction and operation of the proposed Project within a modified focal landscape setting with BLM VRM Class IV designated land. The proposed Project would cross foothills in rolling terrain which would be partially skylined for residences with interior views. Construction access disturbance to landform and vegetation would not be visible from the KOP because of the inferior viewing condition and the presence of vegetative screening. The proposed structures would be seen at approximately 0.8 mile and viewed in context with existing distribution lines. The Project would result in moderate structure contrast for form and line into the landscape and weak contrast for color and texture. The viewing distance and skylined condition, in consideration of the presence of existing distribution poles, would result in an overall weak-moderate degree of contrast from this KOP.



*View to the north from SR 408 north of Socorro, New Mexico.*

# VISUAL CONTRAST RATING WORKSHEET

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|--|
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> The Box SRMA                       |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO19 The Box SRMA<br><b>VRM Class: III and IV</b> (viewed from Class II) | <b>Location</b><br><br>Township: 3S<br><br>Range: 1W<br><br>Section: 31 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

## Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures |
|----------------|---|--|------------|
| <b>Form</b>    | FG: Rolling<br>MG: Geometric, pyramidal                           | FG/MG: Amorphous patches, stippled                                       | NA         |
| <b>Line</b>    | FG: Horizontal, diagonal<br>MG: Irregular, strong horizontal line | FG: Diffuse edges, horizontal diagonal<br>MG: Diffuse and digitate edges | NA         |
| <b>Color</b>   | FG: Browns, reddish brown<br>MG: Dark/reddish browns, tans        | FG/MG: Greens, tans and browns   | NA         |
| <b>Texture</b> | FG: Fine grain<br>MG: Fine to medium grain                        | FG/MG: Fine to medium grain, medium density                              | NA         |

## Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Thin vertical             |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluators Names:**  
EPG Visual Personnel

|  |
|--|
| <b>Date: May 6, 2011</b>                                 |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: The Box SRMA</b>                       |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project in a feature landscape setting associated with The Box SRMA (VRM Class II) and views towards land with VRM Class III and IV designations. The proposed Project would cross rolling terrain and would be backdropped by adjacent terrain for recreation viewers with slightly superior viewing conditions. Disturbance to landform and vegetation associated with construction access would not be visible from the KOP due to screening by topography and vegetation. The proposed structures would be seen at approximately 2.5 miles and introduce moderate contrast into the landscape to structure elements of form and line with weak contrast introduced for color and texture. The viewing distance with the Project occurring in a backdrop condition would result in a weak-moderate degree of contrast.



*View west from The Box SRMA towards the Magdalena Mountains.*

|  |
|--|
| <b>Date:</b> February 17, 2011                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO20 San Antonio (west) Residence<br><b>VRM Class: II</b> (viewed from land without VRM Classification) | <b>Location:</b><br>Township: 4S<br>Range: 1E<br>Section: 20 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures                         |
|----------------|--|--|------------------------------------|
| <b>Form</b>    | FG: Sloped to gently rolling, flat<br>BG: Horizontal geometric | FG: Clumped groupings to homogeneous patches<br>BG: Weak geometric patch | FG: Thin, vertical, geometric      |
| <b>Line</b>    | FG: Horizontal<br>BG: Horizontal, weak diagonal                | FG: Horizontal butt edge<br>BG: Weak horizontal                          | FG: Vertical, horizontal, diagonal |
| <b>Color</b>   | FG: Tan, browns<br>BG: Dulled blue-tan                         | FG: Light and dark greens, tans, browns<br>BG: dulled blue-green         | FG: white, reddish tan, browns     |
| <b>Texture</b> | FG/BG: Fine grain  | FG: Coarse to medium grain, medium density<br>BG: Fine grain             | FG: Fine grain, smooth             |

### Proposed Activity Description (Facility)

|                | Landform/Water     | Vegetation                              | Structures   |
|----------------|--------------------|---|--|
| <b>Form</b>    | FG: Gently rolling | FG: Homogeneous patch                   | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Weak diagonal  | FG: Weak butt edge                      | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | FG: Browns         | FG: Light and dark greens, tans, browns | FG: Dull gray  |
| <b>Texture</b> | FG: Fine grain     | FG: Medium grain                        | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
No

**Additional mitigating measures recommended?**  
No – See Simulation 9

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: February 17, 2011</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project within a modified landscape setting with VRM Class II designated land, as viewed from residences north of San Antonio, New Mexico. The proposed Project would cross flat to rolling terrain and would be partially skylined. Construction access disturbance would introduce weak contrast to landform elements of line and color. Similarly, weak contrast would be introduced to vegetation elements of form and line. The proposed structures would be seen at approximately 0.5 mile and viewed in context, with existing vertical structures (distribution lines) and other cultural modifications. The proposed structures would introduce a strong structure contrast to form and line, with moderate contrast introduced for color and texture.



*View to the southeast from residence along SR 1/Old US Highway 85 north of San Antonio, New Mexico.*

|  |
|--|
| <b>Date:</b> March 26, 2010                              |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO21 San Antonio (east)<br><b>VRM Class: II</b> | <b>Location:</b><br><br>Township: 4S<br><br>Range: 1E<br><br>Section: 27 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures   |
|----------------|---|--|--|
| <b>Form</b>    | FG: Relatively flat<br>BG: Pyramidal                                | FG: Few tall roughly spherical and grouped strip/patch<br>BG: Weak geometric patch                 | FG: Low repeating vertical with diagonal; few tall vertical with diagonal; low rectangular |
| <b>Line</b>    | FG: Straight band (road), horizontal<br>BG: Diagonal                | FG: Butt edge (at road)<br>BG: Weak butt edge  | FG: Vertical, diagonal, horizontal   |
| <b>Color</b>   | FG: Grey, light brown<br>BG: Dulled light browns and reddish-browns | FG: Light to dark greens, sage gold, gray, light to dark browns<br>BG: Dulled bluish-tan and green | FG: Rusted red and salmon, browns, grey, green, white, white with a hint of salmon         |
| <b>Texture</b> | FG: Fine grain<br>BG: Medium to fine grain                          | FG: Medium grain, dense<br>BG: Fine grain  | FG: Fine grain   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | NA             | NA         | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | NA             | NA         | FG: Brown, dull, gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |                    | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|--------------------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |                    | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |                    | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |
| Elements | Degree of Contrast |                         |          |      |      |            |          |      |      |            |          |      |      |
|          | <b>Form</b>        |                         |          |      | X    |            |          |      | X    | X          |          |      |      |
|          | <b>Line</b>        |                         |          |      | X    |            |          |      | X    | X          |          |      |      |
|          | <b>Color</b>       |                         |          |      | X    |            |          |      | X    |            |          | X    |      |
|          | <b>Texture</b>     |                         |          |      | X    |            |          |      | X    |            |          | X    |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: March 26, 2010</b>                              |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project in a focal landscape setting with VRM Class II designation and associated with residences, northeast of San Antonio, New Mexico. The proposed Project would cross flat terrain and would be partially screened for residences with level views. Dense vegetation lining the road provides screening for construction access disturbance to landform and vegetation. Portions of the proposed structures would be seen as the Project crosses the road at approximately 0.75 mile and would introduce moderate contrast of form and line into the landscape, with weak contrast for color and texture.



*View to the north from residences along Bosquecito Road near San Antonio, New Mexico.*

|   |
|---|
| <b>Date:</b> May 6, 2011                                |
| <b>District/Field Office:</b> Socorro, NM               |
| <b>Resource Area:</b> Sand Pedro ACEC                   |
| <b>Activity (program):</b> Two 500kV transmission lines |

|   |  |  |
|---|--|--|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project | <b>Location</b><br><br>Township: 5S<br><br>Range: 2E<br><br>Section: 6 | <b>Location Sketch</b><br> |
| <b>Key Observation Point:</b><br>SO22 US Route 380            |  |  |
| <b>VRM Class: II</b>  |  |  |

## Characteristic Landscape Description

|                | Landform/Water   | Vegetation                                  | Structures   |
|----------------|--|---|--|
| <b>Form</b>    | FG/MG: Relatively flat to low-rolling and geometric masses | FG/MG: Strip, stippled, horizontal patch    | FG/MG: Low, diagonal, repeating vertical, even ordered (guardrail) |
| <b>Line</b>    | FG/MG: Horizontal, straight band, diagonal                 | FG/MG: Butt edge, diffuse edges             | FG/MG: Diagonal, vertical  |
| <b>Color</b>   | FG/MG: Tans, browns/reddish brown                          | FG/MG: Olive green, greens, tans and browns | FG/MG: Dulled gray   |
| <b>Texture</b> | FG/MG: Fine grain, smooth                                  | FG/MG: Medium to fine grain                 | FG/MG: Fine grain  |

## Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG/MG: Tall vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG/MG: Complex angular; concave horizontal               |
| <b>Color</b>   | NA             | NA         | FG/MG: Dull gray   |
| <b>Texture</b> | NA             | NA         | FG/MG: Fine grain, matted, uniform, ordered              |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | Strong              | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |
| <b>Elements</b>    | Form    |                     |          |      | X    |            |          |      | X    | X          |          |      |      |
|                    | Line    |                     |          |      | X    |            |          |      | X    | X          |          |      |      |
|                    | Color   |                     |          |      | X    |            |          |      | X    | X          |          |      |      |
|                    | Texture |                     |          |      | X    |            |          |      | X    | X          |          |      |      |

**Does project design meet visual resource management objectives?**  
No

**Additional mitigating measures recommended?**  
No – See Simulation 10

**Evaluators Names:**  
EPG Visual Personnel

|   |
|---|
| <b>Date: May 6, 2011</b>                                |
| <b>District/Field Office: Socorro, NM</b>               |
| <b>Resource Area: Sand Pedro ACEC</b>                   |
| <b>Activity (program): Two 500kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting associated with US Route 380 and the San Pedro ACEC. The proposed Project would cross rolling terrain and would be primarily screened by topography. Construction access disturbance to landform and vegetation would not be visible from the KOP. A small portion of the Project would be seen at approximately 1.6 miles in a partial skyline condition and introduce strong contrast into the landscape for structure elements of form with moderate contrast introduced for line, color, and texture.



*View to the east from US Route 380, east of San Antonio, New Mexico.*

|  |
|--|
| <b>Date:</b> March 22, 2010                              |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> Bosque NWR                         |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO23 Bosque NWR<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 8S<br><br>Range: 3W<br><br>Section: 15 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures  |
|----------------|--|--|---|
| <b>Form</b>    | FG/MG: Flat to gently rolling  | FG/MG: Few, tall, spherical, pyramidal to narrow, conical, strip/patch | FG/MG: Repeating, narrow, vertical, rectangular, and triangular |
| <b>Line</b>    | FG: Straight bands (road and canal), horizontal<br>MG: Weak, undulating horizontal | FG: Butt edge (at road)<br>MG: Weak, digitate edges                    | FG/MG: Vertical, horizontal, diagonal                           |
| <b>Color</b>   | FG/MG: Light browns; gray, white, yellow (road)                                    | FG/MG: Light to dark green, golden, grays, light to dark brown         | FG/MG: Light brown, tan, white, gray, greens                    |
| <b>Texture</b> | FG/MG: Fine grain  | FG: Uneven, medium grain, low density<br>MG: Fine grain                | FG/MG: Fine grain   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Weak, thin, vertical      |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features            |         |      |      |            |         |      |      |            |         |      |      |
|----------|---------|---------------------|---------|------|------|------------|---------|------|------|------------|---------|------|------|
|          |         | Landform/Water Body |         |      |      | Vegetation |         |      |      | Structures |         |      |      |
|          |         | Strong              | Moderat | Weak | None | Strong     | Moderat | Weak | None | Strong     | Moderat | Weak | None |
| Elements | Form    |                     |         |      | X    |            |         |      | X    |            |         |      | X    |
|          | Line    |                     |         |      | X    |            |         |      | X    |            |         |      | X    |
|          | Color   |                     |         |      | X    |            |         |      | X    |            |         |      | X    |
|          | Texture |                     |         |      | X    |            |         |      | X    |            |         |      | X    |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: March 22, 2010</b>                              |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: Bosque NWR</b>                         |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a highly modified landscape setting associated with views from the Bosque National Wildlife Refuge along Old US Highway 85. The proposed Project would cross relatively flat to gently rolling terrain in a backdropped condition. Disturbance to landform and vegetation elements of form, line, color, and texture would not be visible from the KOP. The Project may be visible at approximately 4.5 miles within the valley through breaks in the vegetative screening and, if visible, weak contrast would be introduced into the landscape for structure elements of form, line, color, and texture. The viewing distance with the Project occurring in a modified landscape with a backdropped condition would result in a weak degree of contrast from this KOP.



*View to the north from Old US Highway 85 just beyond the Bosque National Wildlife Refuge.*

|  |
|--|
| <b>Date:</b> March 1, 2010                               |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b>                                    |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                               |
|--|--|-------------------------------|
| <p><b>Project Name:</b><br/>SunZia Southwest Transmission Project</p> <p><b>Key Observation Point:</b><br/>SO24 Willow Springs and Whispering Mountain Ranches</p> <p><b>VRM Class: IV</b> (KOP on private land viewing Class IV to the northeast)</p> | <p><b>Location:</b> Coordinates</p> <p>Latitude:<br/>33° 52'54.83" N</p> <p>Longitude:<br/>107° 2'25.13" W</p> | <p><b>Location Sketch</b></p> |
|--|--|-------------------------------|

## Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures  |
|----------------|--|---|---|
| <b>Form</b>    | FG: Smooth, rolling<br>MG: Complex, numerous, flat-top pyramidal or mesa | FG/MG: Sparse, low, irregular; spherical, individual and few patches and strips | FG/MG: Repeating, vertical, narrow, cylindrical with horizontal and diagonal members, rectangular and pyramidal |
| <b>Line</b>    | FG: Weak, broken, undulating<br>MG: Complex, irregular, horizontal       | FG: Not discernible<br>MG: Weak, broken; irregular, diffuse                     | FG/MG: Vertical, diagonal, horizontal   |
| <b>Color</b>   | FG/MG: Light to medium brown, light to medium reddish brown              | FG/MG: Golden, gray, dark green   | FG/MG: Brown, gray, white, rust red   |
| <b>Texture</b> | FG/MG: Fine grain  | Fine grain, sparse, low density   | Fine grain  |

## Proposed Activity Description (Facility)

|                | Landform/Water   | Vegetation   | Structures   |
|----------------|--|--|--|
| <b>Form</b>    | FG: Smooth, rolling                                      | FG: Carpeted, low, to sparse, irregular, amorphous | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Weak, broken, undulating, horizontal                 | FG: Weak, butt edge (at road)                      | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | FG: Light to medium brown, light to medium reddish brown | FG: Golden, gray, dark green                       | FG: Dull gray  |
| <b>Texture</b> | FG: Fine grain   | FG: Fine grain, low density, sparse                | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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|--|
| <b>Date: March 1, 2010</b>                               |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area:</b>                                    |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from construction and operation of the proposed Project within a feature landscape setting with VRM Class IV designated land and associated with the future Willow Springs development. The proposed Project would cross rolling terrain and would be backdropped by adjacent terrain for residences with views. Construction access disturbance to the landform would be visible from the KOP and introduce weak contrast to line and color. The existing vegetation is sparse and does not offer screening of the Project; however, construction access disturbance to vegetation may be partially visible. The proposed structures would be seen at approximately 0.5 mile and viewed in context with existing transmission line structures visible at approximately 0.6 mile. The proposed structures would be larger than the existing structures and would introduce strong contrast to form and line, with moderate contrast introduced for color and texture. The viewing distance of the proposed Project from the KOP, in consideration of the Project occurring in a backdropped condition with the presence of existing structures, would result in a moderate-strong degree of contrast. Selective mitigation measure #7 would reduce contrast where landform would provide a backdrop condition.



*View to the northeast from an unpaved road within the Willow Springs development.*

|  |
|--|
| <b>Date:</b> February 17, 2010                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> Craig National Historic Site       |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                            |
|--|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO27 Fort Craig National Historic Site<br><b>VRM Class: IV</b> (viewed from Class I) | <b>Location:</b><br><br>Township: T03S<br><br>Range: R01W<br><br>Section: 31 | <b>Location Sketch</b><br> |
|--|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation                    | Structures                              |
|----------------|---|-------------------------------|---|
| <b>Form</b>    | FG/MG: Relatively flat, gently rolling<br>BG: Elongated, geometric mass | FG/MG: Low patches            | FG: Vertical, rectangular (ruin)        |
| <b>Line</b>    | FG/MG: Horizontal<br>BG: Undulating, broken horizontal                  | FG/MG: Transitional edge      | FG: Vertical, horizontal                |
| <b>Color</b>   | FG/MG: Light tan, gray<br>BG: Dulled blue-green                         | FG/MG: Golden, browns, greens | FG: Tans, light browns                  |
| <b>Texture</b> | FG/MG: Medium to fine grain<br>BG: Fine grain, silhouette               | FG/MG: Medium to fine grain   | FG: Coarse (wall) and fine grain (ruin) |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Weak, thin, vertical      |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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    |

**Does project design meet visual resource management objectives?**  
 Yes

**Additional mitigating measures recommended?**  
 No

**Evaluator Name(s):**  
 EPG Visual Personnel

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|--|
| <b>Date: February 17, 2010</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: Craig National Historic Site</b>       |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting with VRM Class IV designation and viewed from the Fort Craig National Historic Site. The proposed Project would cross flat terrain in a backdropped condition from a slightly inferior view. Construction access disturbance to landform and vegetation would not be visible from the KOP. The proposed structures might be visible at approximately 5.5 miles and would likely blend into the landscape setting. However, the structures would have the potential to introduce weak contrast to structure elements of form, line, color, and texture. The viewing distance with the Project in a backdropped condition could result in a weak degree of contrast introduced from the KOP.



*View to the northwest from the Fort Craig National Historic Site.*

|  |
|--|
| <b>Date:</b> March 3, 2010                               |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> I-25 Corridor                      |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                     |
|--|--|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO28 Rest Area – Fort Craig/I-25<br><b>VRM Class:</b> IV | <b>Location:</b><br><br>Township: 8S<br><br>Range: 3W<br><br>Section: 15 | Location Sketch<br> |
|--|--|---------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation                                       | Structures                        |
|----------------|---|--|-----------------------------------|
| <b>Form</b>    | FG/MG: Flat to gently rolling<br>BG: Jagged, mountain silhouettes | FG/MG: Homogeneous, expansive patch              | FG: Short, thin, vertical (fence) |
| <b>Line</b>    | FG/MG: Horizontal<br>BG: Irregular, layered horizontal            | FG/MG: Butt edge (at asphalt), weak diffuse edge | FG: Low vertical                  |
| <b>Color</b>   | FG/MG: Reddish brown, gray<br>BG: Dulled bluish-tan               | FG/MG: Olive green, greens, tans, and browns     | FG: Brown                         |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Fine to medium grain                     | FG/MG: Medium grain and density                  | FG: Fine grain, even, ordered     |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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    |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: March 3, 2010</b>                               |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: I-25 Corridor</b>                      |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting with VRM Class IV designation and associated with views from a rest area on I-25 near Fort Craig. The proposed Project would cross flat terrain in a partially backdropped condition from a level view. Massed low vegetation would offer screening for construction access disturbance to landform and vegetation. The proposed structures would be seen at approximately 1.5 miles and would introduce moderate contrast for structure elements of form and line, with weak contrast introduced for color and texture.



*View to the northwest from a rest area on I-25 near Fort Craig.*

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| <b>Date:</b> February 17, 2011                           |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> El Camino Real                     |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |   |
|---|--|---|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project | <b>Location:</b><br>Township: 9S<br>Range: 4W<br>Section: 13 | <b>Location Sketch</b><br> |
| <b>Key Observation Point:</b><br>SO30 SR 1 (El Camino Real)   |  |   |
| <b>VRM Class:</b> NA  |  |   |

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation  | Structures                                  |
|----------------|---|---|---|
| <b>Form</b>    | FG: Geometric, plateaus<br>MG: Rugged, geometric                    | FG: Stippled, geometric patch, low homogeneous expansive (grasses)<br>MG: Expansive homogeneous | FG: Geometric (bridges, signs); transparent |
| <b>Line</b>    | FG: Diagonals, horizontal, curving band<br>MG: Irregular horizontal | FG: Butt edges, diffuse edge<br>MG: Not   | FG: Vertical, horizontal, diagonal          |
| <b>Color</b>   | FG: Tans and browns<br>MG: Dulled bluish-browns (outcrops)          | FG: Olives, tans, and browns<br>MG: Dulled bluish-tan   | FG: Gray                                    |
| <b>Texture</b> | FG: Medium to fine grain<br>MG: Medium grain                        | FG: Fine to medium grain<br>MG: Fine grain  | FG: Fine grain                              |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                                     |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, geometric, transparent               |
| <b>Line</b>    | NA             | NA         | FG: Thin, triangular, long, horizontal, convex |
| <b>Color</b>   | NA             | NA         | FG: Gray, light gray                           |
| <b>Texture</b> | NA             | NA         | FG: Coarse to medium, uniform, ordered         |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |  |  |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|--|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |  |
|          |         | 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    |      |  |  |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**

Yes – See Simulation 11

**Evaluator Name(s):**

EPG Visual Personnel

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| <b>Date: February 17, 2011</b>                           |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: El Camino Real</b>                     |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project in a focal/enclosed landscape setting associated with New Mexico SR 1 (El Camino Real National Byway). The proposed Project would cross relatively flat to steep terrain and would be partially skylined and backdropped. Existing disturbance similar to that required for construction access is not visible from the KOP; thus any disturbance to landform and vegetation associated with construction access for the proposed Project will not be visible. The proposed Project would be seen at approximately 0.9 mile and introduce strong contrast into the landscape for structure elements of form and line, with moderate contrast introduced for color and texture. The viewing distance with a portion of the Project in a skylined condition would result in a moderate-strong degree of contrast from the KOP.



*View to the southeast from New Mexico State Route 1 (El Camino Real National Byway).*

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| <b>Date:</b> May 25, 2011                                |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> Gran Quivira                       |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO31a Gran Quivira unit of Salinas Pueblo Missions National Monument (Link E83)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 1S<br><br>Range: 8E<br><br>Section: 3 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water                      | Vegetation  | Structures  |
|----------------|-------------------------------------|---|---|
| <b>Form</b>    | FG/MG: Low, rolling hills, flat     | FG/MG: Amorphous patches, stippled                                  | FG: Low, rectangular, geometric (ruins, residences) |
| <b>Line</b>    | FG/MG: Horizontal and simple angles | FG/MG: Digitate to diffuse edges, weak diagonal but edge (pipeline) | FG: Horizontal, vertical, diagonal                  |
| <b>Color</b>   | FG/MG: Tans and browns              | FG/MG: Dark greens and browns                                       | FG: Browns, tans, reddish brown, white              |
| <b>Texture</b> | FG/MG: Fine grain                   | FG/MG: Fine to medium grain   | FG: Medium to fine grain                            |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |   |  |   |  |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|---|--|---|--|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |   |  |   |  |
|          |         | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |   |  |   |  |
| Elements | Form    |                         |          |      | X    |            |          |      |      |            |          |      |      | X |  |   |  |
|          | Line    |                         |          |      | X    |            |          |      |      |            |          |      |      | X |  |   |  |
|          | Color   |                         |          |      | X    |            |          |      |      |            |          |      |      |   |  | X |  |
|          | Texture |                         |          |      | X    |            |          |      | X    |            |          |      |      |   |  | X |  |

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| <p><b>Does project design meet visual resource management objectives?</b><br/>NA</p> <p><b>Additional mitigating measures recommended?</b><br/>No – See Simulation 47a</p> <p><b>Evaluator Name(s):</b><br/>EPG Visual Personnel</p> |
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| <b>Date: May 25, 2011</b>                                |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: Gran Quivira</b>                       |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project within a panoramic landscape, viewed from the Gran Quivira unit of Salinas Pueblo Missions National Monument. The Project would cross flat to slightly rolling terrain which would be backdropped by adjacent terrain and partially skylined. Construction access disturbance to landform and vegetation would be visible from the KOP although contrast would be weak. The proposed structures would be seen at approximately 2.0 miles and would introduce moderate contrast to structure elements of form and line with weak contrast for color and texture. The viewing distance of the proposed Project from the KOP, in consideration of the Project occurring in a partial skyline condition, would result in an overall moderate-weak degree of contrast.



*View to the north from the Gran Quivira unit of Salinas Pueblo Missions National Monument.*

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| <b>Date:</b> May 25, 2011                                |
| <b>District/Field Office:</b> Socorro, NM                |
| <b>Resource Area:</b> Gran Quivira                       |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>SO31b Gran Quivira unit of Salinas Pueblo Missions National Monument (Link E84)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 1S<br><br>Range: 8E<br><br>Section: 3 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water                      | Vegetation  | Structures  |
|----------------|-------------------------------------|---|---|
| <b>Form</b>    | FG/MG: Low, rolling hills, flat     | FG/MG: Amorphous patches, stippled                                  | FG: Low, rectangular, geometric (ruins, residences) |
| <b>Line</b>    | FG/MG: Horizontal and simple angles | FG/MG: Digitate to diffuse edges, weak diagonal but edge (pipeline) | FG: Horizontal, vertical, diagonal                  |
| <b>Color</b>   | FG/MG: Tans and browns              | FG/MG: Dark greens and browns                                       | FG: Browns, tans, reddish brown, white              |
| <b>Texture</b> | FG/MG: Fine grain                   | FG/MG: Fine to medium grain   | FG: Medium to fine grain                            |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Weak, thin, vertical      |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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    |

|  |
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| <b>Does project design meet visual resource management objectives?</b><br>NA |
| <b>Additional mitigating measures recommended?</b><br>No                     |
| <b>Evaluator Name(s):</b><br>EPG Visual Personnel                            |

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|--|
| <b>Date: May 25, 2011</b>                                |
| <b>District/Field Office: Socorro, NM</b>                |
| <b>Resource Area: Gran Quivira</b>                       |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project within a panoramic landscape, viewed from the Gran Quivira unit of Salinas Pueblo Missions National Monument. The Project would cross flat to slightly rolling terrain in screened and skyline conditions from a superior view. Construction access disturbance to landform and vegetation would not be visible from the KOP. The proposed structures would be seen at approximately 4.3 miles and would introduce moderate contrast for the structure element of line with weak contrast for form, color, and texture. The viewing distance of the proposed Project from the KOP, in consideration of the Project occurring in a partial skyline condition, would result in an overall weak degree of contrast.



*View to the north from the Gran Quivira unit of Salinas Pueblo Missions National Monument.*

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| <b>Date:</b> February 24, 2011                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> San Pedro River Valley             |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project | <b>Location:</b><br>Township: 8S<br>Range: 17E<br>Section: 18 | <b>Location Sketch</b><br> |
| <b>Key Observation Point:</b><br>TU1 Mammoth Residences       |   |                            |
| <b>VRM Class:</b> NA  |   |                            |

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures              |
|----------------|---|--|-------------------------|
| <b>Form</b>    | FG: Flat to undulating rolling hills<br>BG: Irregular, rugged                               | FG: Individual, rounded and horizontal strip/patch, stippled | FG: Thin, vertical      |
| <b>Line</b>    | FG: Horizontal to sloping, concave, diagonal, horizontal<br>BG: Irregular, horizontal bands | FG: Horizontal, butt edge (at road and wash), diffuse edge   | FG: Vertical            |
| <b>Color</b>   | FG: Browns, gray<br>BG: Dulled, bluish-green and reddish-brown                              | FG: Greens, grays, tans                                      | FG: Dull brown and gray |
| <b>Texture</b> | FG: Fine grain<br>BG: Medium to fine grain  | FG: Medium to fine grain, medium density                     | FG: Fine grain          |

### Proposed Activity Description (Facility)

|                | Landform/Water                  | Vegetation   | Structures                    |
|----------------|---------------------------------|--|-------------------------------|
| <b>Form</b>    | FG: Undulating to rolling hills | FG: Individual, rounded and horizontal strip/patch, stippled | FG: Thin, vertical            |
| <b>Line</b>    | FG: Weak, horizontal            | FG: Horizontal, butt edge (at road and wash), diffuse edge   | FG: Vertical                  |
| <b>Color</b>   | FG: Brown                       | FG: Greens, grays, tans                                      | FG: Dull gray                 |
| <b>Texture</b> | FG: Fine grain                  | FG: Medium to fine grain, medium density                     | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |  |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |
|          |         | 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    |  |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: February 24, 2011</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: San Pedro River Valley</b>             |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from construction and operation of the proposed Project within a modified landscape setting near residences along the northern portion of Mammoth. The proposed Project would cross rolling terrain and would primarily be backdropped for residential viewers with level views. Disturbance to the landform associated with construction access would be visible from the KOP while crossing rolling terrain. The Project would introduce moderate contrast to landform elements of line, with weak contrast for form, color, and texture. Similarly, moderate contrast would be introduced for the vegetative element of line, with weak contrast introduced for form. The proposed structures would be seen at approximately 1.1 miles and would be screened by vegetation for residences with foreground views of the Project. Additionally, the Project would be seen in the presence of an existing transmission line which would be perpendicular to the proposed Project. The proposed structures would be larger than the existing structures and would introduce moderate contrast to form and line, with weak contrast introduced for color and texture.



*Residential view to the north from Riverside Drive in Mammoth, Arizona.*

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| <b>Date:</b> February 16, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> San Pedro River Valley             |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU2 SR 77<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 8S<br><br>Range: 17E<br><br>Section: 18 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures   |
|----------------|--|--|--|
| <b>Form</b>    | Flat to moderately rolling   | Amorphous patches; numerous, low, spherical, tall columnar | Regular, decreasing vertical to few, geometric; numerous vertical on horizon |
| <b>Line</b>    | Bold, curving band (road); simple, undulating horizontal             | Butt edge (at road); weak, irregular, transitional edge    | Vertical with connecting horizontal and diagonal                             |
| <b>Color</b>   | Light to dark gray, white, yellow (road); light brown, reddish brown | Light sage, light tan, green, reddish brown, brown         | Reddish brown, light brown, gray, yellow, blue, green                        |
| <b>Texture</b> | Fine grain   | Uneven, coarse to medium grain, medium density             | Fine grain   |

### Proposed Activity Description (Facility)

|                | Landform/Water   | Vegetation  | Structures   |
|----------------|--|---|--|
| <b>Form</b>    | Rolling  | Numerous, low, spherical; tall columnar               | Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | Simple, broken, undulating, horizontal                               | Weak, irregular transitional edge                     | Complex, angular; concave, horizontal              |
| <b>Color</b>   | Light to dark gray, white, yellow (road); light brown, reddish brown | Light sage, light tan, green, reddish brown and brown | Dull gray  |
| <b>Texture</b> | Fine grain   | Uneven, medium grain and density                      | Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: February 16, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: San Pedro River Valley</b>             |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from construction and operation of the proposed Project within a modified landscape setting along SR 77. The Project would cross rolling terrain and be partially skylined. Disturbance to landform and vegetation associated with construction access would be visible from the KOP and would introduce weak contrast to landform elements of line and color. The proposed structures would cross SR 77 and would be viewed in context with existing transmission lines/structures on both sides of the. The proposed structures would be larger than the existing transmission lines and would introduce moderate contrast to form and line, with weak contrast introduced for color and texture. The Project viewed in context of existing transmission lines where construction access would be visible would result in an overall moderate degree of contrast from this KOP. Selective mitigation measures and #10 (maximize span at crossing) would reduce contrast in this area.



*View to the north from SR 77 (Copper Corridor Scenic Road East).*

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| <b>Date:</b> February 24, 2011                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> Arizona Trail                      |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU3 Arizona National Scenic Trail (Black Hills)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 7S<br><br>Range: 15E<br><br>Section: 36 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

## Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures |
|----------------|--|--|------------|
| <b>Form</b>    | FG: Low, rolling to high, rolling or mounded<br>BG: Irregular, horizontal                                | FG: Amorphous patches, numerous, individual spherical, V-shaped, clumped, columnar | NA         |
| <b>Line</b>    | FG: Multiple broken, weak, undulating horizontal; bold, undulating, horizontal<br>BG: Rugged, horizontal | FG: Multiple, weak transitional edge   | NA         |
| <b>Color</b>   | FG/BG: Light brown, reddish brown  | FG: Light green, green, gray, dark brown   | NA         |
| <b>Texture</b> | FG: Medium to fine grain, smooth<br>BG: Medium grain   | FG: Coarse to medium grain, medium density   | NA         |

## Proposed Activity Description (Facility)

|                | Landform/Water                                   | Vegetation   | Structures   |
|----------------|--|--|--|
| <b>Form</b>    | FG: Low, rolling                                 | FG: Amorphous patches, numerous, individual spherical, "v" shaped, clumped, columnar | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Multiple, broken, weak undulating horizontal | FG: Multiple, weak transitional edge   | FG: Complex, angular: concave, horizontal              |
| <b>Color</b>   | FG: Light brown, reddish brown                   | FG: Light green, green, gray, dark brown   | FG: Dull gray  |
| <b>Texture</b> | FG: Smooth, fine grain                           | FG: Coarse to medium grain, medium density   | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: February 24, 2011</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: Arizona Trail</b>                      |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Strong contrast would result from construction and operation of the proposed Project within an enclosed landscape setting with minimal cultural modifications. The proposed Project would cross rolling terrain and would be partially backdropped for Arizona National Scenic Trail viewers with a superior view. Disturbance to the landform (associated with construction access and tower pad clearing) would be visible from the KOP and would introduce moderate contrast to landform elements of line and color, with weak contrast introduced for form and texture. Disturbance to vegetation would introduce weak contrast to the vegetation elements of form and line. The proposed structures would be seen at approximately 0.2 mile in a partially backdropped condition although the project would introduce strong structure contrast for form, line, color, and texture. The overall project contrast that would be viewed in close proximity in an intact landscape setting would result in a strong level of contrast from this KOP. Selective mitigation measures # 7 (self supporting lattice structures) and #10 (maximize span at crossing) would reduce contrast in this area.



*View to the southeast from the Arizona National Scenic Trail.*

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| <b>Date:</b> February 15, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU4 Oracle Residences<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 9S<br><br>Range: 15E<br><br>Section: 22 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures  |
|----------------|--|--|---|
| <b>Form</b>    | FG/MG: Gently to moderately rolling to irregular, rugged     | FG/MG: Clumped, low to stippled to patch           | FG: Thin, vertical (transmission towers), sweeping (conductors) |
| <b>Line</b>    | FG/MG: Horizontal, slightly undulating to jagged and angular | FG/MG: Diffuse edge and weak butt edge (pipe line) | FG: Vertical, diagonal, curving (conductors)                    |
| <b>Color</b>   | FG /MG: Reddish browns                                       | FG/MG: Greens, golden                              | MG: Dull gray   |
| <b>Texture</b> | FG/MG: Fine to medium grain                                  | FG/MG: Medium to fine grain                        | MG: Fine grain  |

### Proposed Activity Description (Facility)

|                | Landform/Water                         | Vegetation                              | Structures                    |
|----------------|--|---|-------------------------------|
| <b>Form</b>    | FG/MG: Gently to moderately rolling    | FG/MG: Clumped low to stippled to patch | FG: Thin, vertical            |
| <b>Line</b>    | FG/MG: Horizontal, slightly undulating | FG/MG: Weak butt edge                   | FG: Vertical                  |
| <b>Color</b>   | FG /MG: Reddish browns                 | FG/MG: Greens, golden                   | FG: Dull gray                 |
| <b>Texture</b> | FG/MG: Fine to medium grain            | FG/MG: Medium to fine grain             | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No – See Simulation 36

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: February 15, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from construction and operation of the proposed Project within a modified landscape setting associated with residences near Oracle, Arizona. The proposed Project would cross rolling terrain and would be backdropped by terrain. Disturbance to the landform and vegetation associated with construction access would be visible from the KOP, which is associated with superior views, and would introduce moderate contrast to the landform element of line, with weak contrast introduced for form, color, and texture. The proposed structures would be seen at approximately 1.0 mile and would parallel an existing transmission line (approx. 0.95 mile). In addition, a pipeline corridor would be perpendicular to the proposed Project. The proposed structures would be larger than the existing transmission line and would introduce moderate contrast to form and line, with weak contrast introduced for color and texture.



*View to the northwest from residences along Rockliffe Boulevard in Oracle, Arizona.*

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|--|
| <b>Date:</b> February 15, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> Arizona Trail                      |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU5 Arizona National Scenic Trail (Tiger Mine Trailhead)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 9S<br>Range: 16E<br>Section: 17 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation  | Structures |
|----------------|---|---|------------|
| <b>Form</b>    | FG/MG: Rolling terrain, pyramidal<br>BG: Rough, rugged          | FG/MG: Low stippled, grouped/clumped<br>BG: Indistinct            | NA         |
| <b>Line</b>    | FG/MG: Undulating, angular/diagonal<br>BG: Irregular horizontal | FG /MG: Diffuse<br>BG: Indistinct                                 | NA         |
| <b>Color</b>   | FG/MG: Brown, reddish-brown<br>BG: Dulled bluish-brown          | FG/MG: Variations of green, grays, brownish red<br>BG: Indistinct | NA         |
| <b>Texture</b> | FG/MG: Fine to medium grain<br>BG: Medium grain                 | FG/MG: Medium grain<br>BG: Fine grain                             | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                               |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, geometric, transparent         |
| <b>Line</b>    | NA             | NA         | FG: Thin, triangular, horizontal, convex |
| <b>Color</b>   | NA             | NA         | FG: Dark gray, light gray                |
| <b>Texture</b> | NA             | NA         | FG: Coarse, uniform, ordered             |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |                    | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|--------------------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |                    | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |                    | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |
| Elements | Degree of Contrast |                         |          |      |      |            |          |      |      |            |          |      |      |
|          | <b>Form</b>        |                         |          | x    |      |            |          | x    |      | x          |          |      |      |
|          | <b>Line</b>        |                         | x        |      |      |            | x        |      |      | x          |          |      |      |
|          | <b>Color</b>       |                         |          | x    |      |            |          |      | x    |            | x        |      |      |
|          | <b>Texture</b>     |                         |          | x    |      |            |          |      | x    |            | x        |      |      |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 Yes – See Simulation 37a and 37b

**Evaluator Name(s):**  
 EPG Visual Personnel

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|--|
| <b>Date: February 15, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: Arizona Trail</b>                      |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from construction and operation of the proposed Project within a panoramic landscape setting with few cultural modifications. The proposed Project would cross rolling terrain and would be partially backdropped by adjacent terrain. Some disturbance to the landform and vegetation (associated with construction access and tower pad clearing) would be visible from the KOP and introduce moderate contrast to landform elements of line, with weak contrast introduced for form, color, and texture. The proposed structures would be seen at approximately 0.7 mile and introduce strong structure contrast into the landscape for form and line, with moderate contrast for color and texture. Selective mitigation measures #7 (self supporting lattice structures) and #10 (maximize span at crossing) would reduce contrast in this setting.



*View to the north from the Arizona National Scenic Trail, Tiger Mine Trailhead, Arizona.*

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| <b>Date:</b> January 25, 2010                            |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> San Pedro River Valley             |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                     |
|--|--|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU6 San Manuel<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 09S<br><br>Range: 17E<br><br>Section: 10 | Location Sketch<br> |
|--|--|---------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation                                 | Structures                              |
|----------------|--|--|---|
| <b>Form</b>    | FG: Relatively flat to low-rolling to trapezoidal (tailings) | FG: Diagonal rows, patches/strip, stippled | FG: Geometric (building), thin vertical |
| <b>Line</b>    | FG: Horizontal, diagonal                                     | FG: Diagonal, horizontal, diffuse          | FG: Vertical, horizontal                |
| <b>Color</b>   | FG: Reddish brown, tans                                      | FG: Tans, olive green, greens, browns      | FG: Gray, white                         |
| <b>Texture</b> | FG: Fine to medium grain, smooth                             | FG: Fine to medium grain                   | FG: Fine grain                          |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | NA             | NA         | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | NA             | NA         | FG: Brown, dull, gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |                    | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|--------------------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |                    | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |                    | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |
| Elements | Degree of Contrast |                         |          |      |      |            |          |      |      |            |          |      |      |
|          | Form               |                         |          |      | X    |            |          |      | X    |            |          |      | X    |
|          | Line               |                         |          |      | X    |            |          |      | X    |            |          |      | X    |
|          | Color              |                         |          |      | X    |            |          |      | X    |            |          |      | X    |
|          | Texture            |                         |          |      | X    |            |          |      | X    |            |          |      | X    |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No – See Simulation 38

**Evaluator Name(s):**  
 EPG Visual Personnel

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|--|
| <b>Date: January 25, 2010</b>                            |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: San Pedro River Valley</b>             |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from construction and operation of the proposed Project within a highly modified landscape setting associated with dispersed residential northeast of San Manuel (San Pedro River Valley). The proposed Project would cross rolling terrain and would be backdropped by the existing mine for residences with inferior views. Existing disturbance is not visible from the KOP; therefore disturbance associated with the Project would not be visible from the KOP. The proposed structures will be seen at approximately 1.0 mile and viewed in context of the existing mine landform disturbance. Color contrast is anticipated to be stronger and the structures will not blend in to the landscape as well as typical backdropped conditions with the presence of vegetation. The proposed structures would introduce moderate contrast for structure elements of form, line, color, and texture into the landscape.



*View to the southwest from residence near San Manuel, Arizona.*

|  |
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| <b>Date:</b> February 17, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> San Pedro River Valley             |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                     |
|---|---|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU7 San Manuel (west)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 10S<br><br>Range: 16E<br><br>Section: 6 | Location Sketch<br> |
|---|---|---------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation  | Structures                                       |
|----------------|---|---|--|
| <b>Form</b>    | FG: Low, rolling<br>BG: Irregular, rugged                               | FG: Clumped and "V"-shaped, individual to patch<br>BG: Low, homogeneous | FG: Low, wide, cylindrical (screened water tank) |
| <b>Line</b>    | FG: Diagonal, undulating horizontal<br>BG: Irregular, broken horizontal | FG: Diffuse edge<br>BG: Weak, digitate edge                             | FG: Vertical, horizontal                         |
| <b>Color</b>   | FG: Reddish brown, light brown<br>BG: Brown                             | FG: Olive green, green, golden<br>BG: Dark bluish-green                 | FG: Tan, brown, white, yellow, red               |
| <b>Texture</b> | FG: Fine grain<br>BG: Medium grain                                      | FG: Coarse to medium grain<br>BG: Fine grain                            | FG: Fine grain                                   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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    |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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|--|
| <b>Date: February 17, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: San Pedro River Valley</b>             |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a feature landscape setting which is primarily modified by development in San Manuel. The proposed Project would cross relatively flat terrain and would be screened by vegetation and backdropped by adjacent terrain. The landform and vegetation in the immediate foreground would provide screening for disturbance and potentially the proposed structures. If the proposed structures are partially visible in breaks in the landform and vegetation screening, they would be seen at a distance of approximately 1.5 miles which would reduce contrast and may be limited to the upper portion of the structures. The landform and vegetative screening, and background condition would result in an overall weak degree of contrast from this KOP.



*View to the southwest from residences along Webb Drive in San Manuel, Arizona.*

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| <b>Date:</b> February 17, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> San Pedro River Valley             |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU8 Mount Lemmon Road<br><b>VRM Class:</b> NA | <b>Location:</b><br>Township: 10S<br>Range: 16E<br>Section: 21 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

## Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures                            |
|----------------|--|---|---------------------------------------|
| <b>Form</b>    | FG: Rounded mass to relatively flat<br>MG: Slight, diagonal plain<br>BG: Rugged horizontal | FG: Clumped groups to indistinct large patches; few, individual, spherical<br>MG: Large patches | FG: Low, scattered, rectangular       |
| <b>Line</b>    | FG: Bold, diagonal, horizontal<br>MG: Simple horizontal<br>BG: Irregular horizontal        | FG: Weak, diffuse edges<br>MG: Diagonal strips  | FG: Weak, short, horizontal, vertical |
| <b>Color</b>   | FG: Light reddish brown, light brown, brown<br>MG/BG: Dulled light browns                  | FG: Light to dark green, light browns<br>MG: Dulled blue-green                                  | FG: White, red, gray,                 |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Fine to medium grain  | FG: Medium grain and density<br>MG: Fine grain  | FG: Fine grain                        |

## Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Weak, thin, vertical      |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

| Degree of Contrast |         | Features            |         |      |      |            |         |      |      |            |         |      |      |
|--------------------|---------|---------------------|---------|------|------|------------|---------|------|------|------------|---------|------|------|
|                    |         | Landform/Water Body |         |      |      | Vegetation |         |      |      | Structures |         |      |      |
|                    |         | Strong              | Moderat | Weak | None | Strong     | Moderat | Weak | None | Strong     | Moderat | Weak | None |
| Elements           | Form    |                     |         |      | X    |            |         |      | X    |            |         |      | X    |
|                    | Line    |                     |         |      | X    |            |         |      | X    |            |         |      | X    |
|                    | Color   |                     |         |      | X    |            |         |      | X    |            |         |      | X    |
|                    | Texture |                     |         |      | X    |            |         |      | X    |            |         |      | X    |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: February 17, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: San Pedro River Valley</b>             |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a panoramic landscape setting associated with Mount Lemmon Road. The proposed Project would cross relatively flat to gently rolling terrain associated with the San Pedro River Valley. Recreation viewers with superior views of the Project would be backdropped by adjacent terrain. Similar existing disturbance (from a pipeline that the proposed Project parallels) required for construction access would not be visible from this KOP; therefore any disturbance associated with construction would not be visible. The structures would be visible at approximately 3.5 miles and would blend into the landscape setting resulting in weak structure contrast for form, line, color, and texture.



*View to the northeast from Mount Lemmon Road.*

|  |
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| <b>Date:</b> February 23, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> San Pedro River Valley             |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                            |
|--|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU9 San Pedro River Valley (north)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 12S<br><br>Range: 19E<br><br>Section: 33 | <b>Location Sketch</b><br> |
|--|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures                                       |
|----------------|---|--|--|
| <b>Form</b>    | FG: Flat to gently rolling<br>MG: Rolling, semi-rugged                  | FG: Individual, rounded, clumped; tall, columnar<br>MG: Low, expansive patch       | FG: Geometric, rectangular                       |
| <b>Line</b>    | FG: Horizontal, straight<br>MG: Gently undulating, horizontal; diagonal | FG: Spherical; straight, vertical<br>MG: Weak transitional edge                    | FG: Straight, horizontal, vertical, and diagonal |
| <b>Color</b>   | FG: Brown, reddish brown<br>MG: Dark brown, reddish brown               | FG: Greens, dark green, brown<br>MG: Greens  | FG: Dark red, tan, brown, dulled green           |
| <b>Texture</b> | FG: Fine grain<br>MG: Medium to coarse                                  | FG: Uneven, coarse grain, medium density<br>MG: Even, medium grain, medium density | FG: Fine to medium, even, ordered                |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|                    |          | Features                |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|----------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |          | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |          | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |
| Degree of Contrast | Elements |                         |          |      |      |            |          |      |      |            |          |      |      |
|                    | Form     |                         |          |      | X    |            |          |      | X    |            |          | X    |      |
|                    | Line     |                         |          |      | X    |            |          |      | X    |            |          | X    |      |
|                    | Color    |                         |          |      | X    |            |          |      | X    |            |          | X    |      |
|                    | Texture  |                         |          |      | X    |            |          |      | X    |            |          | X    |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: February 23, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: San Pedro River Valley</b>             |
| <b>Activity (program): Two 500 kV transmission lines</b> |

The Project may not be visible for dispersed residences in the San Pedro River Valley with inferior views. The proposed Project would cross rolling terrain and would be primarily screened by foreground landform and vegetation. If visible, the proposed structures would occur approximately 2.5 miles from this KOP resulting in weak contrast to form, line, color, and texture. The landform screening and distance that the Project would occur from the KOP would result in an overall weak degree of contrast.



*View southwest from residences along Cascabel Road in the San Pedro River Valley.*

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| <b>Date:</b> February 23, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> San Pedro River Valley             |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |   |
|--|--|---|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU10 Cascabel Road<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 15S<br><br>Range: 20E<br><br>Section: 21 | <b>Location Sketch</b><br> |
|--|--|---|

### Characteristic Landscape Description

|                | Landform/Water                                     | Vegetation                          | Structures               |
|----------------|--|-------------------------------------|--------------------------|
| <b>Form</b>    | FG: Gently to moderately rolling; bold band (road) | FG: Low, medium height, indistinct  | FG: Thin, vertical       |
| <b>Line</b>    | FG: Horizontal, undulating, diagonal, angular      | FG: Butt edge (at road), indistinct | FG: Vertical, horizontal |
| <b>Color</b>   | FG: Brown, light tan, beige                        | FG: Variations of green             | FG: Brown, light gray    |
| <b>Texture</b> | FG: Fine to medium grain                           | FG: Medium grain and density        | FG: Fine grain           |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall vertical, geometric, triangular transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal            |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered             |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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        |      |      |

|  |
|--|
| <b>Does project design meet visual resource management objectives?</b><br>NA   |
| <b>Additional mitigating measures recommended?</b><br>Yes - See Simulations 39 |
| <b>Evaluator Name(s):</b><br>EPG Visual Personnel                              |

|  |
|--|
| <b>Date: February 23, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: San Pedro River Valley</b>             |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from construction and operation of the proposed Project, within an enclosed landscape setting that is modified by dispersed residences in the San Pedro River Valley south of Cascabel. Within the valley, the proposed Project would cross low rolling terrain and would be partially screened by vegetation for travel route viewers on Cascabel Road with level views, Disturbance associated with construction access would be screened by landform and vegetation. The proposed structures would introduce strong contrast to structure form and line with moderate contrast introduced for color and texture while crossing Cascabel Road. The project would be skylined when crossing along the escarpment ridge resulting in moderate-strong contrast. Selective mitigation measures #10 (maximize span at crossing) would reduce contrast in this area.



*View to the northwest from residences along Cascabel Road.*

|  |
|--|
| <b>Date:</b> March 2, 2011                               |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> San Pedro River Valley             |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU11 Cascabel Road (south)<br><b>VRM Class:</b> NA | <b>Location</b><br><br>Township: 15S<br><br>Range: 20E<br><br>Section: 15 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures  |
|----------------|---|--|---|
| <b>Form</b>    | FG: Mounded, gently rolling, geometric<br>MG: Flat to low rolling<br>BG: Irregular, horizontal  | FG: Amorphous strip, numerous small, low, spherical        | FG: Tall, vertical, diagonal, horizontal, geometric |
| <b>Line</b>    | FG: Curving band, broken horizontal and diagonal<br>MG: Horizontal<br>BG: Irregular, horizontal | FG: Diffuse edge, transitional edge                        | FG: Complex, angular, horizontal, vertical          |
| <b>Color</b>   | FG: Light brown, tan, reddish brown; gray, yellow (road)  | FG: Light to medium green, golden, light and dark brown    | FG: Brown, dull gray                                |
| <b>Texture</b> | FG: Fine to medium grain<br>MG/BG: Fine to medium grain   | FG: Coarse to medium grain, uneven, medium to high density | FG: Fine grain, matted, uniform, ordered            |

### Proposed Activity Description (Facility)

|                | Landform/Water                     | Vegetation   | Structures   |
|----------------|------------------------------------|--|--|
| <b>Form</b>    | FG: Rolling                        | FG: Numerous small, low spherical                      | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Broken horizontal and diagonal | FG: Diffuse edge, weak butt edge                       | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | FG: Light brown/tan                | FG: Light to medium green, gold, light, and dark brown | FG: Dull gray  |
| <b>Texture</b> | FG: Fine grain                     | FG: Medium grain/medium density                        | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

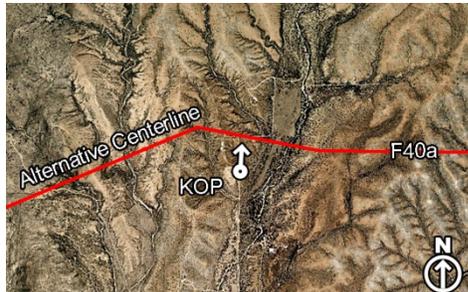
|  |
|--|
| <b>Date: March 2, 2011</b>                               |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: San Pedro River Valley</b>             |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from construction and operation of the proposed Project within a modified landscape setting associated with dispersed residences in the San Pedro River Valley. The proposed Project would cross foothills in rolling terrain and would be skylined for travel route viewers on Cascabel Road. Disturbance associated with construction access would be partially visible and would introduce weak contrast for the landform and vegetation elements of form, line, color, and texture. The proposed structures would be seen at approximately 0.2 mile and viewed in context with existing transmission lines (approximately 0.75 mile). The proposed structures would be larger than the existing transmission lines and would introduce strong contrast to structure elements of line, with moderate contrast to form, and weak contrast for color and texture. The viewing distance, skyline condition, and visible access, with consideration to existing structures visible, would result in an overall moderate-strong degree of contrast from this KOP. Selective mitigation measure #10 (maximize span at crossing) would reduce contrast at this crossing.



*View to the north from residences along Cascabel Road north of Benson, Arizona.*

|  |
|--|
| <b>Date:</b> December 13, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |   |
|--|--|---|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU12 Wrong Mountain Road Residence<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 16S<br><br>Range: 18E<br><br>Section: 14 | <b>Location Sketch</b><br> |
|--|--|---|

## Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures                                    |
|----------------|--|---|---|
| <b>Form</b>    | FG: Low, rolling, band (road)<br>MG: Geometric, pyramidal mountain                                 | FG: Homogeneous, low, growing, amorphous patches<br>MG: Low, not distinct | FG: Geometric, blocky; tall, vertical, narrow |
| <b>Line</b>    | FG: Layered, horizontal lines, diagonal, and straight; gently undulating<br>MG: Jagged, horizontal | FG: Butt edge (at road); weak, diffuse edge<br>MG: Weak, diffuse edge     | FG: Straight, vertical, thin                  |
| <b>Color</b>   | FG: Browns and tans<br>MG: Dark brown and tans   | FG: Greens, tans, browns<br>MG: Dark green, tans, browns                  | FG: Dark gray                                 |
| <b>Texture</b> | FG: Fine grain<br>MG: Fine to medium grain   | FG: Fine to medium, low density, sparse<br>MG: Fine grain, stippled       | FG: Smooth                                    |

## Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

## Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: December 13, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from construction and operation of the proposed Project within a modified feature landscape setting associated with dispersed residences along Wrong Mountain Road. The proposed Project would cross foothills in rolling terrain and would be backdropped by adjacent terrain. Existing access roads and disturbance is screened by topography, therefore construction access disturbance to landform and vegetation would not be visible from this KOP. The proposed structures would be seen at approximately 0.15 mile and would parallel existing transmission lines that are visible at approximately 0.3 mile. In addition, other smaller distribution lines are visible in the landscape. The proposed structures would be larger than the existing structures and would introduce moderate contrast to form, line, color, and texture. The viewing distance, in the presence of existing similar structures, would result in an overall moderate degree of contrast introduced at this KOP.



*View to the north from residences along Wrong Mountain Road.*

|  |
|--|
| <b>Date:</b> January 21, 2011                            |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> Cienega Creek Preserve             |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU13 Arizona Trail (Cienega Creek Preserve Trailhead)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 16S<br>Range: 17E<br>Section: 30 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures                   |
|----------------|--|--|------------------------------|
| <b>Form</b>    | FG: Flat to moderately rolling terrain<br>MG: Bold rugged    | FG: Homogeneous expansive patches, stippled<br>MG: Geometric patches                     | FG: Geometric, thin vertical |
| <b>Line</b>    | FG: Undulating horizontal<br>MG: Convex horizontal, diagonal | FG: Weak butt edge (at trail), weak transitional and diffuse edges<br>BG: Digitate edges | FG: Diagonal, vertical       |
| <b>Color</b>   | FG: Tans, reddish-brown<br>MG: Tans, browns (outcrops)       | FG: Green, olive, golden<br>BG: Bluish-green   | FG: Gray, brown, dull gray   |
| <b>Texture</b> | FG: Fine grain<br>BG: Medium grain                           | FG: Medium grain and dense<br>BG: Fine grain   | FG: Fine grain               |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | NA             | NA         | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | NA             | NA         | FG: Brown, dull, gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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    |      |

|   |
|---|
| <p><b>Does project design meet visual resource management objectives?</b><br/>NA</p> <p><b>Additional mitigating measures recommended?</b><br/>Yes – See Simulation 40a and 40b</p> <p><b>Evaluator Name(s):</b><br/>EPG Visual Personnel</p> |
|---|

|  |
|--|
| <b>Date: January 21, 2011</b>                            |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: Cienega Creek Preserve</b>             |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project within feature landscape setting with cultural modifications.. The proposed Project would cross rolling terrain and would be backdropped by adjacent terrain for viewers associated with the Cienega Creek Preserve and the Arizona National Scenic Trail in a backdropped condition from an inferior view. Disturbance to landform and vegetation associated with construction access would be visible from this KOP with superior views of the Project. The proposed Project would be visible at approximately 1 mile, and would be viewed in context with 2 existing 345kV transmission lines visible at 1.4 miles. The proposed structures would introduce moderate contrast to structure elements of form and line, with weak contrast introduced for color and texture. Backdropped views of the Project viewed within the foreground with existing modifications would result in a weak-moderate level of contrast. Selective mitigation measures #5 and # 7 would reduce contrast in this area.



*View to the northeast from the Cienega Creek Preserve Trailhead, Arizona.*

|  |
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| <b>Date:</b> March 2, 2011                               |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                            |
|--|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU14 SR 83<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 16S<br><br>Range: 16E<br><br>Section: 26 | <b>Location Sketch</b><br> |
|--|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures   |
|----------------|--|---|--|
| <b>Form</b>    | FG: Low, rolling to flat<br>MG: Low, irregular horizontal<br>BG: Irregular horizontal                                      | FG/MG: Low, amorphous patches and grouped, tall                           | FG/MG: Tall, vertical, transparent, complex, geometric (buildings) |
| <b>Line</b>    | FG: Multiple curving bands, horizontal<br>MG: Broken, irregular horizontal<br>BG: Broken, irregular horizontal, silhouette | FG/MG: Straight to curving, butt edge (at roads), weak, transitional edge | FG/MG: Angular, diagonal, circular, horizontal, and vertical       |
| <b>Color</b>   | FG/MG: Brown, tan<br>BG: Dulled blue-green   | FG/MG: Variation of greens, golden  | FG/MG: White, brown, dull gray                                     |
| <b>Texture</b> | FG/MG/BG: Fine grain, smooth   | FG/MG: Fine to medium grain, uneven, random                               | FG/MG: Fine grain  |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|                    |          | Features                |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|----------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |          | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |          | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |
| Degree of Contrast | Elements |                         |          |      |      |            |          |      |      |            |          |      |      |
|                    | Form     |                         |          |      | X    |            |          |      |      |            |          |      | X    |
|                    | Line     |                         |          |      | X    |            |          |      |      | X          |          |      |      |
|                    | Color    |                         |          |      | X    |            |          |      |      | X          |          |      | X    |
|                    | Texture  |                         |          |      | X    |            |          |      |      | X          |          |      | X    |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No – See Simulation 41

**Evaluator Name(s):**  
 EPG Visual Personnel

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|--|
| <b>Date: March 2, 2011</b>                               |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project in a modified panoramic landscape setting associated with the South Sonoita Highway (Patagonia-Sonoita Scenic Road). The proposed Project would cross relatively flat to slightly rolling terrain in a partially backdropped condition. Dense vegetation would screen construction access and would not be visible from this KOP. The proposed Project would be seen at approximately 1.3 miles and viewed in context with existing transmission lines. The proposed structures would introduce moderate contrast for structure elements of line into the landscape and weak contrast for form, color, and texture. The presence of similar structures in consideration with partially backdropped conditions would result in an overall moderate-weak degree of contrast from this KOP.



*View to the southeast from SR 83.*

|  |
|--|
| <b>Date:</b> December 14, 2010                           |
| <b>District/Field Office:</b> Tucson                     |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU15 Civano<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 15S<br><br>Range: 15E<br><br>Section: 12 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation  | Structures   |
|----------------|---|---|--|
| <b>Form</b>    | FG/MG: Gently rolling to flat<br>BG: Layered pyramidal  | FG: Individual roughly spherical<br>MG: Homogeneous patch | FG: Geometric/rectangular (buildings)<br>MG: Tall thin vertical, transparent |
| <b>Line</b>    | FG/MG: Horizontal<br>BG: Irregular horizontal, diagonal | FG: Diagonal, vertical<br>MG: Horizontal                  | FG: Vertical, horizontal, diagonals<br>MG: Repeating vertical, horizontal    |
| <b>Color</b>   | FG/MG: Tans and browns<br>BG: Bluish-tan and purple     | FG/MG: Olive greens, browns, silver/green                 | FG: Tan, sienna, browns<br>MG: Dull gray                                     |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Fine grain                     | FG/MG: Medium grain                                       | FG: Fine to medium grain<br>MG: Fine grain                                   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | NA             | NA         | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | NA             | NA         | FG: Brown, dull, gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                                |

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |      |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No

**Evaluator Name(s):**  
 EPG Visual Personnel

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|--|
| <b>Date: December 14, 2010</b>                           |
| <b>District/Field Office: Tucson</b>                     |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate contrast would result from the construction and operation of the proposed Project in a highly modified panoramic landscape setting associated with residences at Civano, Arizona. The Project would cross flat land and would be partially backdropped by distant terrain for residences with superior views. Due to existing development and vegetation, construction access disturbance would not be visible from this KOP. The structures will be visible at approximately 0.50 mile, behind existing similar structures visible at 0.50 mile. The proposed structures would be larger and introduce strong contrast for structure elements of form, with moderate contrast for line and weak contrast for color and texture introduced into the landscape. Superior views of the Project from residences while viewed in context with the developed area of Tucson would result in an overall moderate degree of contrast from this KOP.



*View to the southeast from residences in Civano, Arizona.*

|  |
|--|
| <b>Date:</b> January 21, 2011                            |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> Saguaro National Park              |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU16 Saguaro National Park (east)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 14S<br>Range: 16E<br>Section: 32 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures   |
|----------------|--|---|--|
| <b>Form</b>    | FG: Gently to moderately rolling<br>MG: Flat, level<br>BG: Low, mountain silhouettes | FG: Individual, clumped; tall columnar in expansive patch<br>MG: Low, homogeneous expansive patch | FG: Low, geometric<br>MG: Transparent, vertical and low, multiple, cubic |
| <b>Line</b>    | FG: Undulating horizontal<br>MG: Straight horizontal<br>BG: Irregular horizontal     | FG: Vertical, diagonal, indistinct<br>MG: Weak, transitional edge                                 | FG: Straight, rectangular<br>MG: Vertical, weak horizontal               |
| <b>Color</b>   | FG/MG: Brown and tans<br>BG: Dulled bluish-tan                                       | FG: Variations of greens, browns, golden<br>MG: Green, dark green                                 | FG: Tan, gray<br>MG: Light gray, brown, white, light red                 |
| <b>Texture</b> | FG/MG/BG: Fine grain   | FG: Coarse, rough, dense<br>MG: Medium, uniform, stippled   | FG: Fine grain, smooth<br>MG: Fine to medium grain, even, ordered        |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|                    |                | Features                |         |      |      |            |         |      |      |            |         |      |      |  |  |  |  |  |  |  |   |
|--------------------|----------------|-------------------------|---------|------|------|------------|---------|------|------|------------|---------|------|------|--|--|--|--|--|--|--|---|
|                    |                | Landform/<br>Water Body |         |      |      | Vegetation |         |      |      | Structures |         |      |      |  |  |  |  |  |  |  |   |
|                    |                | Strong                  | Moderat | Weak | None | Strong     | Moderat | Weak | None | Strong     | Moderat | Weak | None |  |  |  |  |  |  |  |   |
| Degree of Contrast |                |                         |         |      |      |            |         |      |      |            |         |      |      |  |  |  |  |  |  |  |   |
| <b>Elements</b>    | <b>Form</b>    |                         |         |      | x    |            |         |      |      |            |         |      | x    |  |  |  |  |  |  |  | x |
|                    | <b>Line</b>    |                         |         |      | x    |            |         |      |      |            |         |      | x    |  |  |  |  |  |  |  | x |
|                    | <b>Color</b>   |                         |         |      | x    |            |         |      |      |            |         |      | x    |  |  |  |  |  |  |  | x |
|                    | <b>Texture</b> |                         |         |      | x    |            |         |      |      |            |         |      | x    |  |  |  |  |  |  |  | x |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No – See Simulation 42

**Evaluator Name(s):**  
 EPG Visual Personnel

|  |
|--|
| <b>Date: January 21, 2011</b>                            |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: Saguaro National Park</b>              |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a modified panoramic landscape setting with the Project occurring in the Rincon Valley, south of Tucson and viewed from Saguaro National Park (east). The Project would cross flat terrain and would be backdropped by terrain for Saguaro National Park viewers with superior views. Existing disturbance paralleling the proposed Project, similar to that required for construction access, is not visible from the KOP; thus disturbance to the landform and vegetation associated with construction access would not be visible. The structures would be visible at 2.0 miles due to minimal vegetative screening; however it would parallel an existing transmission line (approx. 2.1 miles). The proposed structures would be larger than the existing structures and would introduce weak contrast to structure elements of form, line, color, and texture to the landscape. The viewing distance of the proposed Project in a background condition with some vegetative screening would result in an overall weak degree of contrast for this KOP.



*View west from a picnic area within the Saguaro National Park.*

|   |
|---|
| <b>Date:</b> August 8, 2011                             |
| <b>District/Field Office:</b> Tucson, AZ                |
| <b>Resource Area:</b> NA                                |
| <b>Activity (program):</b> Two 500kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU17 Alvernon<br><b>VRM Class:</b> NA | <b>Location</b><br><br>Township: 15S<br><br>Range: 14E<br><br>Section: 4 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures  |
|----------------|---|--|---|
| <b>Form</b>    | FG: Level<br>MG: flat<br>BG: Pyramidal and trapezoidal                            | FG : Clumped; Spherical<br>MG to BG: Not distinguishable | FG: tall vertical triangular transparent and curving horizontal, low boxy<br>MG: Tall, thin |
| <b>Line</b>    | FG: Horizontal<br>BG: irregular, undulating                                       | FG: Digitate edges<br>MG to BG: Not distinguishable      | FG: complex geometric angular, horizontal, and vertical; straight<br>MG: vertical           |
| <b>Color</b>   | FG: light brown, beige<br>BG: Dark brown and purple due to atmospheric conditions | FG: Green, olive green; browns, tans                     | FG/MG: dull grey, Brown, light grey, green  |
| <b>Texture</b> | FG: Fine<br>BG: Fine  | FG: medium to coarse grain, medium density               | FG/MG: fine to medium grain   |

### Proposed Activity Description (Facility)

|                | Landform/Water           | Vegetation                                 | Structures   |
|----------------|--------------------------|--|--|
| <b>Form</b>    | FG: Level                | FG : Clumped; Spherical                    | FG: tall vertical narrow columnar, horizontal arms, diagonal, and curving (conductors) |
| <b>Line</b>    | FG: Horizontal           | FG: Digitate edges                         | FG: bold vertical and horizontal   |
| <b>Color</b>   | FG: Beige, tans          | FG: Green, olive green; browns, tans       | FG: dull grey, light grey  |
| <b>Texture</b> | FG: Fine to medium grain | FG: medium to coarse grain, medium density | FG: fine grain matted uniform  |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluators Names:**  
EPG Visual Personnel

|   |
|---|
| <b>Date: August 8, 2011</b>                             |
| <b>District/Field Office: Tucson, AZ</b>                |
| <b>Resource Area: NA</b>                                |
| <b>Activity (program): Two 500kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project within a heavily developed landscape associated with a residential/industrial complex south of Tucson. The Project would cross flat land with a level view. Construction access disturbance to landform and vegetation would be visible from the KOP as the Project would be seen from less than 0.1 mile and would introduce moderate contrast into the landscape for structure elements because of surrounding development and an existing transmission line in the view.



*View northwest from residences in Tucson, Arizona*

|  |
|--|
| <b>Date:</b> December 21, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> Tucson Mountain Parks              |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                     |
|--|--|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU18 Gates Pass Road<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 14S<br><br>Range: 12E<br><br>Section: 12 | Location Sketch<br> |
|--|--|---------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation  | Structures                                     |
|----------------|---|---|--|
| <b>Form</b>    | FG/MG: Gently sloping to valley floor, flat<br>BG: Complex, rugged (mountain)   | FG: Clumped, individual vertical, "V"-shaped, low rough spherical<br>MG: Intermittent patches, stippled | FG/MG: Geometric, rectangular; vertical        |
| <b>Line</b>    | FG/MG: Horizontal<br>BG: Irregular, mountainous silhouettes                     | FG/MG: Irregular, complex   | FG/MG: Vertical, horizontal, diagonal          |
| <b>Color</b>   | FG/MG: Tans and browns<br>BG: Brown; blue hues caused by atmospheric conditions | FG/MG: Olive greens, browns, greens   | FG/MG: Tan-pink, browns, whites, grays, whites |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Medium to fine grain                                   | FG/MG: Medium to fine grain   | FG/MG: Complex and dense, ordered              |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Weak, thin, vertical      |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |  |  |  |  |   |  |  |  |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|--|--|--|---|--|--|--|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |  |  |  |   |  |  |  |
|          |         | 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 |  |  |  |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No

**Evaluator Name(s):**  
 EPG Visual Personnel

|  |
|--|
| <b>Date: December 21, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: Tucson Mountain Parks</b>              |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a highly modified landscape setting in the Tucson area, as viewed from Gates Pass Road. The Project would cross flat terrain however existing development would dominate the view and obscure project contrast. If visible, the structures would be seen at approximately 3.5 miles, and would likely blend into the modified landscape setting. The viewing distance, in consideration of the Project occurring in a backdropped condition in a highly modified landscape, would result in an overall weak degree of contrast from this KOP.



*View to the northeast from Gates Pass Road.*

|  |
|--|
| <b>Date:</b> January 21, 2011                            |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> Santa Cruz River                   |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU19 Santa Cruz River Park/Anza National Historic Trail<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 14S<br><br>Range: 13E<br><br>Section: 2 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation                                 | Structures  |
|----------------|---|--|---|
| <b>Form</b>    | FG: Level; trapezoidal (channel)<br>MG: Flat<br>BG: Pyramidal and trapezoidal | FG : Strip and clumped, numerous, tall     | FG: Tall, vertical, geometric, triangular, transparent; curving horizontal, short, repeating, vertical with horizontal, low cubical<br>MG: Tall, thin |
| <b>Line</b>    | FG: Horizontal, angular, curving band<br>BG: Irregular, horizontal silhouette | FG: Butt edge (in wash)                    | FG: Complex, angular, horizontal, vertical<br>MG: Vertical, horizontal  |
| <b>Color</b>   | FG: Brown, dark brown<br>BG: Blue due to atmospheric conditions               | FG: Green, olive green, brown, golden      | FG/MG: Dull gray, brown, light gray, light red  |
| <b>Texture</b> | FG: Fine to medium grain<br>BG: Fine grain                                    | FG: Medium to coarse grain, medium density | FG/MG: Fine to medium grain   |

### Proposed Activity Description (Facility)

|                | Landform/Water                   | Vegetation                                 | Structures  |
|----------------|----------------------------------|--|---|
| <b>Form</b>    | FG: Level; trapezoidal (channel) | FG : Strip and clumped                     | FG: Tall, vertical, geometric, narrow columnar, horizontal arms, diagonal, and curving (conductors) |
| <b>Line</b>    | FG: Horizontal                   | FG: Butt edge                              | FG: Bold, vertical; concave, horizontal   |
| <b>Color</b>   | FG: Brown, dark brown            | FG: Green, olive green, brown, golden      | FG: Dull gray   |
| <b>Texture</b> | FG: Fine to medium grain         | FG: Medium to coarse grain, medium density | FG: Fine grain, matted, uniform, ordered  |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No – See Simulation 43

**Evaluator Name(s):**  
 EPG Visual Personnel

|  |
|--|
| <b>Date: January 21, 2011</b>                            |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: Santa Cruz River</b>                   |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from construction and operation of the proposed Project within a highly modified landscape setting along the Santa Cruz River Parkway in Tucson. The proposed Project would cross flat terrain within the channelized Santa Cruz River. Construction access would occur within the Santa Cruz River channel and would introduce weak contrast to landform and vegetation for elements of line, color, and texture. The proposed structures would be seen in the immediate foreground paralleling similar existing transmission line structures. However, the proposed structures would be larger than the existing structures and would introduce strong structure contrast to form and line, with moderate contrast introduced for color and texture. The viewing distance, in consideration of the presence of existing similar structures in a modified landscape setting, would result in an overall moderate-strong degree of contrast from this KOP.



*View to the south from the Santa Cruz River Parkway in Tucson, Arizona.*

|  |
|--|
| <b>Date:</b> December 15, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> Sky Island National Scenic Byway   |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |   |
|---|--|---|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU20 Sky Island National Scenic Byway<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 13S<br><br>Range: 15E<br><br>Section: 26 | <b>Location Sketch</b><br> |
|---|--|---|

### Characteristic Landscape Description

|                | Landform/Water                              | Vegetation   | Structures  |
|----------------|---|--|---|
| <b>Form</b>    | FG/MG: Gently sloping to valley floor, flat | FG: Clumped, individual, vertical, "V"-shaped; low, rough, spherical<br>MG: Intermittent patches, stippled | FG/MG: Geometric, rectangular, thin vertical      |
| <b>Line</b>    | FG/MG: Horizontal, straight bands (road)    | FG/MG: Irregular, complex  | FG/MG: Vertical, horizontal                       |
| <b>Color</b>   | FG/MG: Tans and browns, gray, white (road)  | FG/MG: Olive greens, browns, greens  | FG/MG: Tan, browns, whites, green, yellow (signs) |
| <b>Texture</b> | FG/MG: Fine grain                           | FG/MG: Medium to fine grain  | FG/MG: Fine grain                                 |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Weak, thin, vertical      |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|                    |          | Features                |          |      |      |            |          |      |      |            |          |      |      |  |  |  |  |  |  |  |   |  |  |  |  |
|--------------------|----------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|--|--|--|--|--|--|---|--|--|--|--|
|                    |          | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |  |  |  |  |  |  |   |  |  |  |  |
|                    |          | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |  |  |  |  |  |  |  |   |  |  |  |  |
| Degree of Contrast | Elements |                         |          |      | X    |            |          |      |      |            |          |      | X    |  |  |  |  |  |  |  | X |  |  |  |  |
|                    | Form     |                         |          |      | X    |            |          |      |      |            |          |      | X    |  |  |  |  |  |  |  | X |  |  |  |  |
|                    | Line     |                         |          |      | X    |            |          |      |      |            |          |      | X    |  |  |  |  |  |  |  | X |  |  |  |  |
|                    | Color    |                         |          |      | X    |            |          |      |      |            |          |      | X    |  |  |  |  |  |  |  | X |  |  |  |  |
|                    | Texture  |                         |          |      | X    |            |          |      |      |            |          |      | X    |  |  |  |  |  |  |  | X |  |  |  |  |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: December 15, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: Sky Island National Scenic Byway</b>   |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a highly modified landscape setting along the Sky Island Scenic Byway (Catalina Highway). The Project would cross flat terrain and would be backdropped by existing development. The structures may be visible at approximately 3.6 miles, but would likely blend into the landscape; however, they have the potential to introduce weak structure contrast to form, line, color, and texture. The viewing distance, in consideration of the Project occurring in a backdropped condition in a highly modified setting, would result in an overall weak degree of contrast introduced from this KOP.



*View to the southwest from the Sky Island National Scenic Byway.*

|  |
|--|
| <b>Date:</b> January 21, 2011                            |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> Rillito River                      |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                     |
|--|--|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU21 Mehl Park Residence<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 13S<br><br>Range: 14E<br><br>Section: 27 | Location Sketch<br> |
|--|--|---------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation                                | Structures   |
|----------------|--|---|--|
| <b>Form</b>    | FG: Level; trapezoidal channel<br>MG: Gently rolling<br>BG: Rugged   | FG/MG: Not distinctive                    | FG: Narrow, long, tall; low, thin, paralleling, horizontal, and vertical<br>MG: Square, rectangular                                |
| <b>Line</b>    | FG: Horizontal, curving band (path)<br>MG: Undulating, horizontal<br>BG: Broken, irregular, jagged, horizontal | FG/ MG: Regular, complex                  | FG: Straight, repeating, rhythmic (fence); tall, thin; long, numerous, low, rectangular<br>MG: Geometric, horizontal, and vertical |
| <b>Color</b>   | FG/MG: Brown, dark brown<br>BG: Browns   | FG/ MG: Green, olive green, brown, golden | FG: Gray, light gray, brown<br>MG: Dull brown, white, beige  |
| <b>Texture</b> | FG: Fine grain<br>MG/ BG: Fine to medium grain   | FG /MG: Medium grain, dense               | FG: Fine<br>MG: Medium   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, narrow, columnar, horizontal arms, diagonal, and curving (conductors) |
| <b>Line</b>    | NA             | NA         | FG: Bold, vertical, horizontal; weak, concave (lines/wire)   |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered   |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features             |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|----------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/ Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No – See Simulation 44

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: January 21, 2011</b>                            |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: Rillito River</b>                      |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from construction and operation of the proposed Project within a modified landscape setting associated with Mehl Park in Tucson, Arizona. The proposed Project would cross flat terrain while immediately adjacent to existing residences and recreation viewers in Mehl Park. Disturbance to landform and vegetation associated with construction access would not be visible from the KOP because of vegetation screening. The proposed structures would be seen in the immediate foreground and would parallel existing transmission lines. However, the proposed structures would be larger and would introduce strong structure contrast to form and line, with moderate contrast introduced for color and texture. The viewing distance with consideration for the presence of existing similar structures in a modified landscape setting would result in an overall moderate-strong degree of contrast from this KOP.



*View to the northeast from along a walking path within Mehl Park in Tucson, Arizona.*

|  |
|--|
| <b>Date:</b> December 15, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU22 River Road<br><b>VRM Class:</b> NA | <b>Location:</b><br>Township: 13S<br>Range: 14E<br>Section: 21 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures                                    |
|----------------|--|--|---|
| <b>Form</b>    | FG: Level band (road), geometric mass<br>MG: Slightly undulating<br>BG: Bold, jagged | FG/MG: Low, irregular, patches                     | FG/MG: Thin tall, rectangular                 |
| <b>Line</b>    | FG: Horizontal, curving, diagonal<br>MG: Horizontal<br>BG: Irregular, horizontal     | FG/MG: Low, irregular, broken; butt edge (at road) | FG/MG: Vertical, diagonal, horizontal         |
| <b>Color</b>   | FG: Tan; gray, white (road)<br>MG/BG: Brown; red                                     | FG/MG: Dull green, olive green                     | FG/MG: Grays, browns; green and white (signs) |
| <b>Texture</b> | FG: Fine grain<br>MG/BG: Fine grain  | FG/MG: Medium grain and density, clumped           | FG/MG: Fine grain                             |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, narrow, columnar, horizontal arms, diagonal, and curving (conductors) |
| <b>Line</b>    | NA             | NA         | FG: Bold, vertical, horizontal; weak, concave (lines/wires)  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered   |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: December 15, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project within a highly modified landscape setting along River Road in Tucson, Arizona. The proposed Project would cross relatively flat terrain and would be viewed in context with existing vertical structures and development. Disturbance to landform and vegetation associated with construction access would not be visible from the KOP because of vegetative screening. The proposed structures would be partially screened by vegetation associated with the river, approximately 0.2 mile, and would result in strong contrast. The viewing distance in consideration of intermittent screening would result in an overall moderate-strong degree of contrast from this KOP.



*View to the southeast from River Road in Tucson, Arizona.*

|  |
|--|
| <b>Date:</b> December 15, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                     |
|--|--|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU23 Oracle Road<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 13S<br><br>Range: 13E<br><br>Section: 11 | Location Sketch<br> |
|--|--|---------------------|

### Characteristic Landscape Description

|                | Landform/Water                            | Vegetation                                       | Structures   |
|----------------|---|--|--|
| <b>Form</b>    | FG/MG: Flat to gently sloping             | FG/MG: Medium height, "V"-shaped, grouped/ strip | FG/MG: Geometric, low, rectangular (buildings), thin, vertical |
| <b>Line</b>    | FG/MG: Horizontal, diagonal bands (roads) | FG/MG: Butt edges at road and structures         | FG/MG: Vertical, weak, broken horizontal                       |
| <b>Color</b>   | FG/MG: Tans, browns, gray, white          | FG/MG: Olive greens, dark brown                  | FG/MG: Tan, browns, whites, green                              |
| <b>Texture</b> | FG/MG: Fine grain, smooth                 | FG/MG: Medium grain                              | FG/MG: Medium to fine grain                                    |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |  |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |
|                    |         | 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    |  |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No

**Evaluator Name(s):**  
 EPG Visual Personnel

|  |
|--|
| <b>Date: December 15, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a highly modified landscape setting in the Tucson area, as viewed from Oracle Road. The Project would cross flat terrain and would be backdropped and partially screened by development and vegetation. Construction disturbance to the landform and vegetation associated with access would not be visible due to screening by development and vegetation. The structures would be seen at approximately 1.4 miles and would likely blend into the landscape setting; however, they have the potential to introduce weak structure contrast to form, line, color, and texture.



*View to the south along Oracle Road (southbound).*

|  |
|--|
| <b>Date:</b> March 2, 2011                               |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU24 Silverbell Road Residence<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 13S<br><br>Range: 13E<br><br>Section: 7 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures   |
|----------------|--|---|--|
| <b>Form</b>    | FG: Sloped, mounds with flat tops<br>MG: Bold complex irregular pyramidal                                      | FG: Individual and grouped, low, spherical, clumped | FG: Tall, narrow, cylindrical, rectangular; narrow, horizontal |
| <b>Line</b>    | FG: Curving band (road), horizontal; geometric, diagonal<br>MG: Bold, complex, irregular, horizontal, diagonal | FG: Weak, butt edge; indistinguishable              | FG: Vertical, horizontal, diagonal                             |
| <b>Color</b>   | FG: Light to dark gray (road); light brown, reddish brown<br>MG: Grays, light green and brown                  | FG: Light to dark green, golden, brown, reds        | FG: White, brown, reds, tans, white, blue                      |
| <b>Texture</b> | FG: Fine to medium grain<br>BG: Medium grain   | FG: Medium grain; random, medium density            | FG: Fine grain   |

### Proposed Activity Description (Facility)

|                | Landform/Water                 | Vegetation  | Structures   |
|----------------|--------------------------------|---|--|
| <b>Form</b>    | FG: Flat                       | FG: Individual and grouped, low, spherical, clumped | FG: Tall, vertical, geometric, narrow, columnar, horizontal arms |
| <b>Line</b>    | FG: Weak, horizontal           | FG: Weak, butt edge; indistinguishable              | FG: Bold, vertical, horizontal; weak, concave (lines/wires)      |
| <b>Color</b>   | FG: Light brown, reddish brown | FG: Light to dark green, golden, brown, reds        | FG: Dull gray  |
| <b>Texture</b> | FG: Fine grain                 | FG: Medium grain; random, medium density            | FG: Fine grain, matted, uniform, ordered                         |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No

**Evaluator Name(s):**  
 EPG Visual Personnel

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|--|
| <b>Date: March 2, 2011</b>                               |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from construction and operation of the proposed Project within a highly modified landscape setting associated with residences near Silverbell Road in Tucson, Arizona. The proposed Project would cross relatively flat terrain and would be partially backdropped by existing terrain. Disturbance associated with construction access would be partially visible and would introduce weak contrast for the landform and vegetation elements of form, line, color, and texture. The proposed structures would be seen at approximately 0.2 mile and viewed in text with existing transmission lines. The proposed structures would be larger than the existing structures and would introduce strong contrast for structure elements of form, with moderate contrast for line and texture, and weak contrast for color introduced. The presence of existing similar structures, with consideration for the proposed Project occurring in a highly modified landscape setting, would result in an overall moderate-strong degree of contrast.



*View to the northeast from residences along West Sunset Road (overlooking Silverbell Road) in Tucson, Arizona.*

|  |
|--|
| <b>Date:</b> January 21, 2011                            |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> Saguaro National Park              |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU25 Saguaro National Park (West)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 13S<br>Range: 12E<br>Section: 4 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation  | Structures   |
|----------------|---|---|--|
| <b>Form</b>    | FG: Gently to moderately rolling<br>MG: Relatively flat, level<br>BG: Bold, rugged                        | FG: Low, indistinct; tall, narrow<br>MG: Irregular massing and patches<br>BG: Amorphous patches near peak | FG/MG: Low geometric (sign) and low, individual geometric, rectangular (buildings) |
| <b>Line</b>    | FG: Undulating and descending band (road)<br>MG: Horizontal<br>BG: Irregular, strong, horizontal, complex | FG: Butt edge (at road)<br>MG: Irregular, weak transitional edges<br>BG: Weak digitate edge               | FG/MG: Multiple broken horizontal and vertical                                     |
| <b>Color</b>   | FG: Tan, browns, gray, yellow, white<br>MG: Tan, browns<br>BG: Brown, dark brown, reddish-brown           | FG: Variations of green<br>MG: Uniform green, patches of dark green<br>BG: Dulled blue-green              | FG/MG: White, grays, tans, browns  |
| <b>Texture</b> | FG: Fine to medium grain<br>MG: Fine grain<br>BG: Fine to medium grain                                    | FG: Medium grain<br>MG: Medium to fine grain<br>BG: Fine grain  | FG: Medium grain, random   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |  |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |
|                    |         | 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    |  |

|   |
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| <p><b>Does project design meet visual resource management objectives?</b><br/>NA</p> <p><b>Additional mitigating measures recommended?</b><br/>No – See Simulation 45</p> <p><b>Evaluator Name(s):</b><br/>EPG Visual Personnel</p> |
|---|

|  |
|--|
| <b>Date: January 21, 2011</b>                            |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: Saguaro National Park</b>              |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a highly modified feature landscape setting in the Tucson area and viewed from the Saguaro National Park (west). The Project would cross flat terrain in however existing development would dominate the view and obscure project contrast. If visible, the proposed structures would be seen at 2.8 miles and would likely blend into the highly modified landscape setting. The viewing distance with consideration of the Project, backdropped by a modified landscape setting, would result in an overall weak degree of contrast from this KOP.



*View to the northeast from Picture Rocks Road within Saguaro National Park (West).*

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| <b>Date:</b> December 22, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                     |
|--|--|---------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU26 Ritz-Carlton Resort<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 11S<br><br>Range: 12E<br><br>Section: 24 | Location Sketch<br> |
|--|--|---------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures                                       |
|----------------|--|---|--|
| <b>Form</b>    | FG/MG: Gently rolling to flat valley floor<br>BG: Complex, layered, rugged; pyramidal  | FG/MG: Grouped, medium height; "V"-shaped, rounded, stippled<br>BG: Regular | FG/MG: Geometric, rectangular, thin vertical     |
| <b>Line</b>    | FG/MG: Horizontal, band (road)<br>BG: Irregular horizontal silhouettes                 | FG/MG: Irregular, complex   | FG/MG: Vertical, horizontal, straight, repeating |
| <b>Color</b>   | FG/MG: Tans; gray (road)<br>BG: Dark brown; blue hues caused by atmospheric conditions | FG/MG: Olive greens, browns, greens; yellow-green                           | FG/MG: Tan/pink, browns, grays, tans             |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Fine grain  | FG/MG: Irregular, medium coarseness   | FG/MG: Complex and dense                         |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                                      |
|----------------|----------------|------------|---|
| <b>Form</b>    | NA             | NA         | MG: Weak, vertical                              |
| <b>Line</b>    | NA             | NA         | MG: Repeating, vertical across the horizon line |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                                   |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered                   |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

|  |
|--|
| <b>Date: December 22, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a highly modified landscape setting viewed from the Ritz-Carlton Resort, north of Tucson. The Project would cross flat terrain and would be backdropped by terrain for recreation viewers at the resort with superior views. The structures may be visible at approximately 3.5 miles, but would likely blend into the landscape setting. The viewing distance, in consideration of the Project occurring in a backdropped condition in a highly modified setting, would result in an overall weak degree of contrast from this KOP.



*View to the southwest from a service road adjacent to the Ritz-Carlton Resort.*

|  |
|--|
| <b>Date:</b> February 11, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                            |
|--|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU27 Biosphere 2<br><b>VRM Class:</b> NA | <b>Location:</b><br>Township: 10 S<br>Range: 14 E<br>Section: 12 | <b>Location Sketch</b><br> |
|--|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water                                     | Vegetation   | Structures |
|----------------|--|--|------------|
| <b>Form</b>    | FG: Slightly sloping, converging plains (drainage) | FG: Individual, low, spherical and rectangular patch/strip (in drainage) | NA         |
| <b>Line</b>    | FG: Simple, undulating horizontal                  | FG: Band, transitional edge and stippled                                 | NA         |
| <b>Color</b>   | FG: Reddish brown and light brown                  | FG: Light greens, gold, light and dark brown                             | NA         |
| <b>Texture</b> | FG: Fine grain                                     | FG: Uneven, medium grain, medium to high density                         | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | MG: Thin, vertical            |
| <b>Line</b>    | NA             | NA         | MG: Vertical                  |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|                 |                | Features                |          |      |      |            |          |      |      |            |          |      |      |  |  |  |   |
|-----------------|----------------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|--|--|---|
|                 |                | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |  |  |   |
|                 |                | Strong                  | Moderate | Weak | None | Strong     | Moderate | Weak | None | Strong     | Moderate | Weak | None |  |  |  |   |
| <b>Elements</b> | <b>Form</b>    |                         |          |      | X    |            |          |      |      | X          |          |      |      |  |  |  | X |
|                 | <b>Line</b>    |                         |          |      | X    |            |          |      |      | X          |          |      |      |  |  |  | X |
|                 | <b>Color</b>   |                         |          |      | X    |            |          |      |      | X          |          |      |      |  |  |  | X |
|                 | <b>Texture</b> |                         |          |      | X    |            |          |      |      | X          |          |      |      |  |  |  | X |

|   |
|---|
| <p><b>Does project design meet visual resource management objectives?</b><br/>NA</p> <p><b>Additional mitigating measures recommended?</b><br/>No</p> <p><b>Evaluator Name(s):</b><br/>EPG Visual Personnel</p> |
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|--|
| <b>Date: February 11, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a panoramic landscape setting associated with views from Biosphere 2. The proposed Project would cross rolling terrain and would be screened by vegetation or topography for viewers at Biosphere 2. Landform and vegetation in the foreground would provide screening for disturbance to landform and vegetation, and potentially the proposed structures. The proposed structures would occur approximately 3.0 miles from the KOP and, if visible, weak contrast for structure elements of form, line, color, and texture could be introduced into the landscape. The landform and vegetative screening of the Project and the distance of the Project from the viewer would result in an overall weak degree of contrast from this KOP.



*View to the northwest from the parking lot of Biosphere 2.*

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|--|
| <b>Date:</b> February 10, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU28 Longhoen Trail Residence (Red Rock)<br><b>VRM Class: III</b> (KOP from Private Land) | <b>Location:</b><br><br>Township: 10S<br>Range: 11E<br>Section: 7 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures  |
|----------------|---|--|---|
| <b>Form</b>    | FG: Flat<br>MG: Bold, few pyramidal                                   | FG: Numerous short, clumped, rough, spherical, and tall columnar | FG: Few low rectangular, tall thin vertical, triangular transparent |
| <b>Line</b>    | FG: Weak horizontal<br>MG: Bold, complex, jagged, broken              | FG: Diffuse edge   | FG: Repeating vertical, complex geometric, angular                  |
| <b>Color</b>   | FG: Reddish brown to light brown<br>MG: Dulled reddish brown and grey | FG: Light to dark greens, light to dark browns                   | FG: Light green, tan, white, dulled pink, dull gray                 |
| <b>Texture</b> | FG: Fine grain<br>MG: Medium grain                                    | FG: Medium/coarse grain, medium density                          | FG: Fine grain and matted uniform                                   |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall thin vertical, triangular, transparent                |
| <b>Line</b>    | NA             | NA         | FG: Repeating vertical, complex, geometric, angular/horizontal |
| <b>Color</b>   | NA             | NA         | FG: Brown, dull, gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform                                |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: February 10, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak-moderate contrast would result from the construction and operation of the proposed Project in a highly modified landscape setting with VRM Class III designation, as viewed from residences near Red Rock. The proposed Project would cross relatively flat to slightly rolling land and would be partially backdropped by terrain and access for construction would be screened by vegetation. The Project would be seen at 1.0 mile and viewed in context with existing transmission lines visible at approximately 0.8 mile. The proposed structures would introduce moderate contrast for form and line, with weak contrast for color and texture introduced into the landscape. The presence of a similar project, in consideration with portions of the Project partially backdropped, would result in an overall weak-moderate degree of contrast from this KOP.



*View to the northwest from residences near Red Rock, Arizona.*

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| <b>Date:</b> February 10, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |   |                            |
|---|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU29 Park Link Drive<br><b>VRM Class: III</b> | <b>Location:</b><br><br>Township: 9S<br><br>Range: 11E<br><br>Section: 30 | <b>Location Sketch</b><br> |
|---|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation  | Structures |
|----------------|---|---|------------|
| <b>Form</b>    | FG: Flat to gently rolling; simple rounded, pyramidal | FG: Numerous, short and tall, irregular patches; rough, spherical and tall columnar | NA         |
| <b>Line</b>    | FG: Straight, horizontal; irregular, diagonal         | FG: Weak, diffuse edge  | NA         |
| <b>Color</b>   | FG: Light brown, reddish brown                        | FG: Light to dark green, light to dark brown, gray                                  | NA         |
| <b>Texture</b> | FG: Fine grain  | FG: Medium to coarse grain, dense   | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
 Yes

**Additional mitigating measures recommended?**  
 Yes

**Evaluator Name(s):**  
 EPG Visual Personnel

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|--|
| <b>Date: February 10, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project in a panoramic landscape setting with VRM Class III designation along Park Link Drive. The proposed Project would cross relatively flat terrain and would be partially backdropped by existing terrain for travel route viewers with level views. Existing vegetation would provide screening for disturbance associated with construction access. The proposed structures would be seen at approximately 0.2 mile and would introduce moderate-strong contrast into the landscape for form, line, and color, with moderate contrast introduced to texture. Overall a moderate-strong level of contrast is anticipated from this KOP because the project would be viewed in close proximity. Selective mitigation measure #10 (maximize span at crossing) will reduce contrast in this area.



*View to the south from Park Link Drive.*

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| <b>Date:</b> February 9, 2010                            |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> SR 79 Corridor                     |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU30 Pinal Pioneer Parkway (SR 79)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 7S<br><br>Range: 11E<br><br>Section: 36 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water                                  | Vegetation   | Structures                    |
|----------------|---|--|-------------------------------|
| <b>Form</b>    | FG: Flat  | FG: Numerous, clumped, amorphous and few, tall, narrow, columnar | FG: Repeating, thin, vertical |
| <b>Line</b>    | FG: Continuous, diagonal, narrow band (road)    | FG: Butt, transitional edge                                      | FG: Vertical and horizontal   |
| <b>Color</b>   | FG: Light brown; gray, yellow, and white (road) | FG: Light to dark greens, golden, light to dark brown            | FG: Brown                     |
| <b>Texture</b> | FG: Fine grain                                  | FG: Uneven, medium to coarse grain, dense                        | FG: Fine grain                |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                    |
|----------------|----------------|------------|-------------------------------|
| <b>Form</b>    | NA             | NA         | FG: Weak, thin, vertical      |
| <b>Line</b>    | NA             | NA         | FG: Vertical                  |
| <b>Color</b>   | NA             | NA         | FG: Dull gray                 |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, even, ordered |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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    |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: February 9, 2010</b>                            |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: SR 79 Corridor</b>                     |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a panoramic landscape setting along SR 79 (Pinal Pioneer Parkway). The proposed Project would cross flat terrain with some vegetation screening for travel route viewers along SR 79 with level views. Disturbance to landform and vegetation would not be visible from the KOP because of the vegetative screening. The proposed structures would be visible as the Project crosses Pinal Pioneer Parkway at approximately 3.2 miles and would be viewed in context with an existing transmission line resulting in weak contrast. The viewing distance from this KOP would result in an overall weak degree of contrast.



*View to the northwest from SR 79 (Pinal Pioneer Parkway).*

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| <b>Date:</b> February 9, 2010                            |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> SR 79 Corridor                     |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU31 Tom Mix Memorial/Rest Area<br><b>VRM Class:</b> NA | <b>Location</b><br><br>Township: 7S<br><br>Range: 11E<br><br>Section: 15 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water  | Vegetation   | Structures  |
|----------------|---|--|---|
| <b>Form</b>    | FG: Flat, level; narrow linear strip (road)                             | FG: Numerous, amorphous patches; few, tall, narrow, columnar | FG: Repeating, tall, thin, vertical, rectangular element; short cylindrical |
| <b>Line</b>    | FG: Straight; horizontal, paralleling (road); perpendicular, short band | FG: Straight, butt edge (at road)                            | FG: Vertical, horizontal, diagonal  |
| <b>Color</b>   | FG: Light brown, light reddish brown; gray, yellow, white (road)        | FG: Light to dark green, golden, light to dark brown         | FG: Brown, gray, white  |
| <b>Texture</b> | FG: Fine grain  | FG: Uneven, medium to coarse grain; medium to high density   | FG: Fine to medium grain, even, ordered                                     |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: February 9, 2010</b>                            |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: SR 79 Corridor</b>                     |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from construction and operation of the proposed Project within a panoramic landscape setting viewed from the Tom Mix Memorial and rest area. The proposed Project would cross flat terrain and would be viewed in context with existing transmission lines. Construction access would not be visible from this KOP due to vegetation screening in the foreground. The proposed structures would be seen at approximately 0.15 mile behind existing similar transmission lines which parallel SR 79. The proposed structures would be larger and would introduce strong contrast to form, line, and color, with moderate contrast introduced for texture.



*View to the southeast from the Tom Mix Memorial and rest area located off of Pinal Pioneer Parkway.*

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| <b>Date:</b> February 15, 2010                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|   |  |                            |
|---|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU32 St. Anthony's Greek Orthodox Monastery<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 6S<br><br>Range: 11E<br><br>Section: 7 | <b>Location Sketch</b><br> |
|---|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures   |
|----------------|--|---|--|
| <b>Form</b>    | FG/MG: Flat<br>BG: Definite, rugged, pyramidal                               | FG/MG: Numerous, clumped rough, spherical; numerous columnar to expansive patch | FG: Low, rectangular                                 |
| <b>Line</b>    | FG/MG: Bold, simple, continuous, horizontal<br>BG: Broken, rugged horizontal | FG: Weak, transitional edge   | FG: Weak, broken horizontal, vertical                |
| <b>Color</b>   | FG/MG: Light to medium brown, reddish brown<br>BG: Dulled blue-grays         | FG/MG: Light to dark greens, tan, light to dark brown                           | FG: Light red, gray, light yellow, dulled light blue |
| <b>Texture</b> | FG/MG: Fine grain<br>BG: Medium grain  | FG/MG: Medium grain and density   | FG: Fine grain                                       |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures                                      |
|----------------|----------------|------------|---|
| <b>Form</b>    | NA             | NA         | MG: Weak, vertical                              |
| <b>Line</b>    | NA             | NA         | MG: Repeating, vertical across the horizon line |
| <b>Color</b>   | NA             | NA         | MG: Dull gray                                   |
| <b>Texture</b> | NA             | NA         | MG: Fine grain, even, ordered                   |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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    |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
No

**Evaluator Name(s):**  
EPG Visual Personnel

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|--|
| <b>Date: February 15, 2010</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Weak contrast would result from the construction and operation of the proposed Project in a panoramic landscape setting viewed from St. Anthony's Greek Orthodox Monastery. The Project would cross flat terrain with cultural modifications associated with existing residences. The existing vegetation is diverse and varies by individual plant form and height, but provides screening for disturbance vegetation associated with construction access. The proposed structures would be seen at approximately 3.2 miles across the horizon line and would introduce weak structure contrast for line, form, color, and texture into the landscape. The viewing distance of the proposed Project from this KOP would result in an overall weak degree of contrast.



*View to the southwest from an overlook at St. Anthony's Greek Orthodox Monastery.*

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| <b>Date:</b> January 21, 2011                            |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |  |                            |
|--|--|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU33 Earley Road Residence<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 6S<br><br>Range: 8E<br><br>Section: 28 | <b>Location Sketch</b><br> |
|--|--|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation   | Structures                               |
|----------------|--|--|--|
| <b>Form</b>    | FG/MG: Flat, level; narrow, linear (road)  | FG/MG: Low, geometric and linear forms created by agricultural fields; individual and patches, tall spherical, pyramidal | FG/MG: Numerous, tall, thin, low cubical |
| <b>Line</b>    | FG/MG: Straight, horizontal; paralleling bands converging towards the horizon (road) | FG/MG: Horizontal, irregular; straight, butt edge (at road)  | FG/MG: Vertical, horizontal              |
| <b>Color</b>   | FG/MG: Light brown; gray (road)  | FG/MG: Dark green, green, brown, golden  | FG/MG: White, gray, brown                |
| <b>Texture</b> | FG/MG: Fine grain  | FG/MG: Fine to medium grain, medium density  | FG/MG: Fine grain                        |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures  |
|----------------|----------------|------------|---|
| <b>Form</b>    | NA             | NA         | FG/MG: Tall, vertical, geometric, narrow, columnar, horizontal arms |
| <b>Line</b>    | NA             | NA         | FG/MG: Bold, vertical, angular; concave, horizontal                 |
| <b>Color</b>   | NA             | NA         | FG/MG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG/MG: Fine grain, matted, uniform, ordered                         |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |  |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|--|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |  |
|          |         | 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        |      |      |  |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No

**Evaluator Name(s):**  
 EPG Visual Personnel

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|--|
| <b>Date: January 21, 2011</b>                            |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Strong contrast would result from construction and operation of the proposed Project within a modified panoramic landscape setting associated with residences along Earley Road, near La Palma, Arizona. The proposed Project would cross flat terrain associated with agricultural development. Disturbance to the landform and vegetation would not be visible from the KOP. The proposed structures would be seen from approximately 0.4 mile and would be viewed in context with similar existing transmission lines. The proposed structures would be larger than the existing structures and would introduce strong contrast to form, line, color, and texture. The viewing distance with consideration for the amount of structures visible from the KOP would result in an overall strong degree of contrast.



*View to the northeast from residences along Earley Road near La Palma, Arizona.*

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| <b>Date:</b> February 24, 2011                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> SR 77 Corridor                     |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU34 SR 77 (south)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 9S<br><br>Range: 16E<br><br>Section: 15 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation                                       | Structures                 |
|----------------|--|--|----------------------------|
| <b>Form</b>    | FG: Low, rolling; flat, linear (road)<br>BG: Rugged, amorphous mass  | FG: Numerous, individual, low, spherical         | FG: Narrow, tall, vertical |
| <b>Line</b>    | FG: Diagonal, rounded: paralleling bands converging towards the horizon (road)<br>BG: Complex irregular horizontal | FG: Straight, butt edge (at road)                | FG: Vertical, thin         |
| <b>Color</b>   | FG: Gray, yellow, white, light brown, reddish brown<br>BG: Browns/tans   | FG: Light to dark green, brown, reds             | FG: Light brown            |
| <b>Texture</b> | FG/BG: Fine grain  | FG: Medium grain, medium density, uneven, random | FG: Fine grain             |

### Proposed Activity Description (Facility)

|                | Landform/Water                 | Vegetation                                       | Structures   |
|----------------|--------------------------------|--|--|
| <b>Form</b>    | FG: Low rolling                | FG: Numerous, individual, low, spherical         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Weak, broken, diagonal     | FG: Butt edge from band                          | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | FG: Light brown, reddish brown | FG: Light to dark green, brown, reds             | FG: Dull gray  |
| <b>Texture</b> | FG: Fine grain                 | FG: Medium grain, medium density, uneven, random | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|          |         | 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          |          |      |      |

**Does project design meet visual resource management objectives?**  
NA

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: February 24, 2011</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: SR 77 Corridor</b>                     |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from construction and operation of the proposed Project within a focal landscape setting associated with views along SR 77. The proposed Project would cross rolling terrain in a partially backdropped condition from a superior view. Some disturbance associated with construction access and tower pads would be visible from the KOP and would introduce weak contrast to landform and vegetation elements of form, line, color, and texture. Structures would be seen at approximately 0.4 mile and would introduce strong structure contrast to form, line, and texture, with moderate contrast introduced for color. Visibility of access in rolling terrain and crossing of SR 77 would result in an overall strong level of contrast for travel route viewers. Selective mitigation measure #10 (maximize span at crossing) would reduce contrast at this crossing.



*View to the northeast from SR 77.*

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| <b>Date:</b> February 24, 2011                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> SR 79 Corridor                     |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU35 Pinal Pioneer Parkway (SR 79)<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 9S<br><br>Range: 13E<br><br>Section: 34 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation                                   | Structures   |
|----------------|--|--|--|
| <b>Form</b>    | FG: Gently rolling; flat, linear (road)<br>BG: Bold, irregular, jagged   | FG: Strip, numerous, low, individual         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Undulating; paralleling bands converging towards the horizon (road)<br>BG: Broken, complex, triangular, horizontal | FG: Slightly curving, butt edge (at road)    | FG: Complex, angular; convex, horizontal               |
| <b>Color</b>   | FG/BG: Brown; gray, white, yellow (road)   | FG: Light to dark green, tan, brown, golden  | FG: Dull gray  |
| <b>Texture</b> | FG/BG: Fine grain  | FG: Medium grain and density, uneven, random | FG: Fine grain, matted, uniform, ordered               |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

|          |         | Features                |          |      |      |            |          |      |      |            |          |      |      |   |   |  |  |
|----------|---------|-------------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|---|---|--|--|
|          |         | Landform/<br>Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |   |   |  |  |
|          |         | 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 |  |  |

|   |
|---|
| <p><b>Does project design meet visual resource management objectives?</b><br/>NA</p> <p><b>Additional mitigating measures recommended?</b><br/>No</p> <p><b>Evaluator Name(s):</b><br/>EPG Visual Personnel</p> |
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| <b>Date: February 24, 2011</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: SR 79 Corridor</b>                     |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Low-moderate contrast would result from construction and operation of the proposed Project within a modified landscape setting associated with views from SR 79. The proposed Project would cross foothills in gently rolling terrain and would be partially backdropped by existing terrain for viewers along SR 79 with inferior views. Disturbance similar to what would be used for construction access of the proposed Project already exists and is not visible from the KOP. The proposed structures would be seen at approximately 0.4 mile, paralleling existing similar structures that are visible at approximately 0.5 mile with other similar, much smaller structures (distribution lines) visible perpendicular to the proposed Project. The proposed structures would be larger than the existing structures and would introduce low-moderate contrast to form, line, color, and texture. The viewing distance in a partially backdropped condition with consideration for the presence of similar structures would result in an overall moderate degree of contrast from this KOP.



*View to the southeast from SR 79.*

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| <b>Date:</b> February 24, 2011                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> NA                                 |
| <b>Activity (program):</b> Two 500 kV transmission lines |

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|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU36 Freeman Road<br><b>VRM Class: III</b> | <b>Location:</b><br><br>Township: 7S<br><br>Range: 16E<br><br>Section: 32 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation                                       | Structures |
|----------------|--|--|------------|
| <b>Form</b>    | FG: Flat<br>BG: Pyramidal  | FG: Amorphous, patches; individual, tall, narrow | NA         |
| <b>Line</b>    | FG: Bold, curving band; horizontal<br>BG: Irregular, broken, horizontal  | FG: Slightly curving, butt edge (at road)        | NA         |
| <b>Color</b>   | FG: Light brown, reddish brown<br>BG: Greenish-blue, light reddish brown | FG: Light to dark green, tan, brown              | NA         |
| <b>Texture</b> | FG/BG: Fine grain  | FG: Coarse grain, medium density, random, uneven | NA         |

### Proposed Activity Description (Facility)

|                | Landform/Water | Vegetation | Structures   |
|----------------|----------------|------------|--|
| <b>Form</b>    | NA             | NA         | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | NA             | NA         | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | NA             | NA         | FG: Dull gray  |
| <b>Texture</b> | NA             | NA         | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
Yes

**Additional mitigating measures recommended?**  
Yes

**Evaluator Name(s):**  
EPG Visual Personnel

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| <b>Date: February 24, 2011</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: NA</b>                                 |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Moderate-strong contrast would result from the construction and operation of the proposed Project within a panoramic landscape setting with VRM Class III designation along Freeman Road. The proposed Project would cross low rolling to flat terrain. Disturbance associated with construction access to landform and vegetation will not be visible because of existing vegetation which would provide screening. The proposed structures would be seen at 0.5 mile and would introduce strong structure contrast for form and line, with moderate contrast introduced for color and texture. Selective mitigation measure #10 (maximize span at crossing) would reduce contrast at this crossing.



*View to the northeast from Freeman Road.*

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| <b>Date:</b> February 25, 2011                           |
| <b>District/Field Office:</b> Tucson, AZ                 |
| <b>Resource Area:</b> Davidson Canyon                    |
| <b>Activity (program):</b> Two 500 kV transmission lines |

|  |   |                            |
|--|---|----------------------------|
| <b>Project Name:</b><br>SunZia Southwest Transmission Project<br><b>Key Observation Point:</b><br>TU37 Arizona National Scenic Trail – Davidson Canyon<br><b>VRM Class:</b> NA | <b>Location:</b><br><br>Township: 17S<br><br>Range: 17E<br><br>Section: 6 | <b>Location Sketch</b><br> |
|--|---|----------------------------|

### Characteristic Landscape Description

|                | Landform/Water   | Vegetation  | Structures                         |
|----------------|--|---|------------------------------------|
| <b>Form</b>    | FG: Flat, low rolling; flat, linear (trail)<br>BG: Complex pyramidal                                     | FG: Numerous, low, individual, spherical, amorphous patches | FG: Numerous, tall, "H" shaped     |
| <b>Line</b>    | FG: Undulating, horizontal; thin, paralleling bands, gently curving (trail)<br>BG: Irregular, horizontal | FG: Transitional edge                                       | FG: Vertical, horizontal, diagonal |
| <b>Color</b>   | FG: Light brown<br>BG: Atmospheric, greenish-blues   | FG: Light to dark green, purples, browns, golden            | FG: Brown                          |
| <b>Texture</b> | FG/BG: Fine to medium grain  | FG: Coarse to medium grain, medium density                  | FG/BG: Fine grain                  |

### Proposed Activity Description (Facility)

|                | Landform/Water             | Vegetation  | Structures   |
|----------------|----------------------------|---|--|
| <b>Form</b>    | FG: Flat, low rolling      | FG: Numerous, low, individual, spherical, amorphous patches | FG: Tall, vertical, geometric, triangular, transparent |
| <b>Line</b>    | FG: Undulating, horizontal | FG: Transitional edge                                       | FG: Complex, angular; concave, horizontal              |
| <b>Color</b>   | FG: Light brown            | FG: Light to dark green, purples, browns, golden            | FG: Dull gray  |
| <b>Texture</b> | FG: Fine grain             | FG: Coarse grain, random medium density                     | FG: Fine grain, matted, uniform, ordered               |

Distance Zones - FG: Foreground, MG: Middleground, BG: Background

### Degree of Contrast

| Degree of Contrast |         | Features            |          |      |      |            |          |      |      |            |          |      |      |
|--------------------|---------|---------------------|----------|------|------|------------|----------|------|------|------------|----------|------|------|
|                    |         | Landform/Water Body |          |      |      | Vegetation |          |      |      | Structures |          |      |      |
|                    |         | 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        |      |      |

**Does project design meet visual resource management objectives?**  
 NA

**Additional mitigating measures recommended?**  
 No

**Evaluator Name(s):**  
 EPG Visual Personnel

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| <b>Date: February 25, 2011</b>                           |
| <b>District/Field Office: Tucson, AZ</b>                 |
| <b>Resource Area: Davidson Canyon</b>                    |
| <b>Activity (program): Two 500 kV transmission lines</b> |

Strong contrast would result from construction and operation of the proposed Project in a panoramic landscape setting viewed from Davidson Canyon Trail (part of the Arizona National Scenic Trail). The proposed Project would cross low rolling terrain. Existing disturbance for construction access of the proposed Project already exists and would not be visible from the KOP; however, disturbance for spur roads and tower pads would be visible and would introduce weak contrast for landform and vegetation elements of line and color. The proposed structures would be seen at approximately 0.25 mile, paralleling existing similar structures that are visible at approximately 0.4 mile. The proposed structures would be larger than the existing structures and would introduce strong contrast to form, line, and color, with moderate contrast introduced for texture. The viewing distance of the proposed structures in a partially backdropped condition would result in an overall strong degree of contrast from this KOP.



*View to the north from the Davidson Canyon Trail.*