



View of the town of Luning from the center of the project site.

<b>Project:</b> Luning Solar	<b>Date:</b> 11/18/14
<b>Evaluators:</b> Dan Westermeyer, Matt Simons	<b>Photo ID:</b> 2686
<b>Location ID:</b> Project Center	<b>Lens Focal Length:</b> 50 mm
<b>Azimuth:</b> 170° SSE	<b>Waypoint ID:</b>
<b>UTM East:</b> 3964436.40	<b>UTM North:</b> 4266990.69



Location of proposed first material site adjacent and south of Hwy 95. Existing NDOT material site ROW (CC-021185) is located just out of photo on the right but has exclusive rights for NDOT and cannot be used by other entities.

<b>Project:</b> Luning Solar	<b>Date:</b> 11/18/14
<b>Evaluators:</b> Dan Westermeyer, Matt Simons	<b>Photo ID:</b> 2543
<b>Location ID:</b> Project Center	<b>Lens Focal Length:</b>
<b>Azimuth:</b> 55° NE	<b>Waypoint ID:</b>
<b>UTM East:</b> 390869.11	<b>UTM North:</b> 4265126.73



Location of proposed second material site adjacent and south of Hwy 95. Existing NDOT material site ROW (N-38418) is located just out of photo on the right but has exclusive rights for NDOT and cannot be used by other entities.

<b>Project:</b> Luning Solar	<b>Date:</b> 11/18/14
<b>Evaluators:</b> Dan Westermeyer, Matt Simons	<b>Photo ID:</b> 2694
<b>Location ID:</b> Project Center	<b>Lens Focal Length:</b> 50 mm
<b>Azimuth:</b> 128° SE	<b>Waypoint ID:</b>
<b>UTM East:</b> 390869.11	<b>UTM North:</b> 4265126.73



View from project center looking east at the southern end of the Gabbs Valley Range. Note transmission line poles from substation running left to right in center of photo.

<b>Project:</b> Luning Solar	<b>Date:</b> 11/18/14
<b>Evaluators:</b> Dan Westermeyer, Matt Simons	<b>Photo ID:</b> 2684
<b>Location ID:</b> Project Center	<b>Lens Focal Length:</b> 50 mm
<b>Azimuth:</b> 90° E	<b>Waypoint ID:</b>
<b>UTM East:</b> 3964436.40	<b>UTM North:</b> 4266990.69



View from project center looking north into the Gabbs Valley Range. Utility pole from existing transmission line running east to west visible center left of photo.

<b>Project:</b> Luning Solar	<b>Date:</b> 11/18/14
<b>Evaluators:</b> Dan Westermeyer, Matt Simons	<b>Photo ID:</b> 2683
<b>Location ID:</b> Project Center	<b>Lens Focal Length:</b> 50 mm
<b>Azimuth:</b> 0° N	<b>Waypoint ID:</b>
<b>UTM East:</b> 3964436.40	<b>UTM North:</b> 4266990.69



View from project center looking south towards Marble Mountain and Garfield Hills. Development from the north end of Luning noticeable center and center left of photo. Rest area and KOP 2 located at Arrow 1 and intersection of Hwy 95 and Hwy 361 located at Arrow 2.

<b>Project:</b> Luning Solar	<b>Date:</b> 11/18/14
<b>Evaluators:</b> Dan Westermeyer, Matt Simons	<b>Photo ID:</b> 2685
<b>Location ID:</b> Project Center	<b>Lens Focal Length:</b> 50 mm
<b>Azimuth:</b> 180° S	<b>Waypoint ID:</b>
<b>UTM East:</b> 3964436.40	<b>UTM North:</b> 4266990.69



View from project center looking west. Mount Grant visible in distant background.

<b>Project:</b> Luning Solar	<b>Date:</b> 11/18/14
<b>Evaluators:</b> Dan Westermeyer, Matt Simons	<b>Photo ID:</b> 2682
<b>Location ID:</b> Project Center	<b>Lens Focal Length:</b> 50 mm
<b>Azimuth:</b> 270° W	<b>Waypoint ID:</b>
<b>UTM East:</b> 3964436.40	<b>UTM North:</b> 4266990.69

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	11/18/14
District	Carson City
Resource Area	Stillwater Field Office
Activity (program)	Visual Resources

**SECTION A. PROJECT INFORMATION**

1. Project Name Invenergy Luning Solar	4. Location Township <u>8N</u> Range <u>34E</u> Section <u>3</u>	5. Location Sketch  See attached map
2. Key Observation Point KOP 1 Hwy 361		
3. VRM Class Unclassified		

**SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION**

	1. LANDWATER	2. VEGETATION	3. STRUCTURES
FORM	Predominately smooth, uniform in fore and mid-ground, contrasting, rugged, coarse and discontinuous in background	Indistinct, simple, smooth, low, rounded shrubs and forbes	Prominent, contrasting linear highway; vertical, narrow, tall, simple linear feature from utility poles
LINE	Horizontal, linear unbroken line at valley floor/toe of slope, irregular, continuous horizon line along ridge top. Diagonal/angular lines background.	Continuous, repetitive, simple in fore and mid ground, indistinct in background	Prominent, bold, linear line from highway and roads. Simple, vertical and repetitive from utility poles
COLOR	Predominately light tans to yellows from alluvial topsoils to dark browns and grays from exposed rock in background range	Monotonous, dull yellows and sporadic dark greens	Dark grays from asphalt road surface, mixed light grays gravel surface, tans from native surface road. Dark brown utility poles, orange road markers
TEXTURE	Fore/midground smooth and uniform, non-contrasting. Background contrasting, discontinuous, undulating	Stippled, scattered and continuous, uniform	Smooth and ordered

**SECTION C. PROPOSED ACTIVITY DESCRIPTION**

	1. LANDWATER	2. VEGETATION	3. STRUCTURES
FORM	Predominately smooth, uniform in fore and mid-ground. Distinct, narrow, contrasting, symmetrical in project area	Removed in project area, no changes undisturbed areas.	Prominent, bold, blocky, symmetrical and linear
LINE	Contoured, straight, simple for construction area, no changes for undisturbed areas.	Removed in project area, no changes undisturbed areas.	Geometric, parallel, hard, angular
COLOR	In construction area, exposed mineral soils tan to brown, imported surface material (road base) whites to grays. No change to undisturbed areas	Removed in project area, no changes undisturbed areas.	Dark greens, gray, browns or tans,
TEXTURE	Smooth, uniform, matte	Removed in project area, no changes undisturbed areas.	Buildings smooth, directional, matte, PV modules flat and smooth, uniform, continuous, glossy.

**SECTION D. CONTRAST RATING**     SHORT TERM     LONG TERM

1.	DEGREE OF CONTRAST	FEATURES												2. Does project design meet visual resource management objectives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)
		LANDWATER BODY (1)				VEGETATION (2)				STRUCTURES (3)				
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	
				X		X				X				
			X			X					X			
ELEMENTS	Form			X		X				X			3. Additional mitigating measures recommended? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)	
	Line			X		X				X				
	Color		X			X					X			
	Texture		X			X					X			
Evaluator's Names											Date			
Dan Westermeyer											11/18/14			
Matt Simons											11/18/14			

Comments from item 2.

KOP 1 is located approximately 3 miles north of the project site along Highway 361. This location provides the first view of the project for motorized travelers heading south from Middlegate or Gabbs to Highway 95 as they exit the canyon below Calvada Summit. The observation angle is elevated slightly above the project site, allowing for a view looking down into the LSEP. From this location the viewer would observe a strong contrast between the natural landscape of the open, slightly concave alluvial fan and the PV modules. However, looking south and southeast, existing disturbances in the viewshed would include the highway, distribution lines and other man made structures associated with the town of Luning so similar disturbances preexist on the landscape. Changes to the landscape form and line would be weak since little surface disturbance is required for project development. Alterations to the vegetation would also be strong within the project area since it will be removed, but the predominant vegetation is low growing desert salt scrub so visual impacts would be low since vegetation outside of the project area will not be disturbed. The greatest impacts to the viewshed will come from the field of PV modules, the structures and distribution lines and poles. These objects would provide a strong contrast to natural line and form of the landscape. In addition, the unavoidable and anticipated reflection from the PV modules will be evident depending on the time of day the viewer is traveling past the LSEP and amount of direct sunlight. Nighttime disturbances from project lighting should be minimal due to proposed mitigation measures. Although the project will introduce a moderate or weak contrast to the form, line, color and texture of the land, the change is considered acceptable for this area with the proposed interim VRM Class IV designation.

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Additional Mitigating Measures (See item 3)

Project mitigation measures addressing paint colors for structures, site lighting, reclamation of disturbed areas, and reflectivity of distribution poles will be addressed in the EA. Please refer to Environmental Consequences section for specific mitigation recommendations.



Location of the proposed solar plant is below red arrow. Travelers heading south on Highway 361 (left side of photo) from Gabbs Valley to Hwy 95 Highway 95 is located mid photo running left to right where valley floor meets toe of range. From Key Observation Point 1 the viewshed can be divided into two distinct boundaries; the fore/mid ground and the background. The foreground and midground consists of open, relatively smooth, flat, slightly concave alluvial fan sloping south to the valley floor. Vegetation is composed primarily of indistinct salt desert scrub which is low, uniform, and continuous with predominate colors of yellow, and light tans or browns and occasional dark green. The background consists of rugged terrain comprised of small ridges and canyons and pyramidal, angular shapes that provide dark and light contrasts from shadows. Predominant colors are dark browns and grays.

From this observation point, the casual observer will be exposed to the most dominant view of the project since they will be slightly elevated above the site as they head south on Hwy 361. The predominant vegetation is under three feet in height and will not provide screening of the project. The horizon line will be above the tallest of the structures, thereby reducing contrasting impacts to the landscape lines and form since facilities will not protrude above the skyline. The project will be extending existing visual disturbances further to the west from this viewpoint. Specifically, the PV panels, structures and transmission line will be in contrast to the existing landscape form and lines since they will be introducing additional elements into the landscape. However, non-natural features to line and form already exist from the utility lines and poles, the paved highway and development from the town of Lunging to the southeast.

<b>Project:</b> Luning Solar	<b>Date:</b> 11/18/14
<b>Evaluators:</b> Dan Westermeyer, Matt Simons	<b>Photo ID:</b> 2687
<b>Location ID:</b> KOP 1	<b>Lens Focal Length:</b> 50 mm
<b>Azimuth:</b> 200° SSW	<b>Waypoint ID:</b>
<b>UTM East:</b> 397976.91	<b>UTM North:</b> 4214479.02

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	11/18/14
District	Carson City
Resource Area	Stillwater Field Office
Activity (program)	Visual Resources

**SECTION A. PROJECT INFORMATION**

1. Project Name Invenergy Luning Solar	4. Location Township <u>8N</u> Range <u>34E</u> Section <u>34</u>	5. Location Sketch  See attached map
2. Key Observation Point KOP 2 Hwy 95 Rest Stop		
3. VRM Class Unclassified		

**SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION**

	1. LANDWATER	2. VEGETATION	3. STRUCTURES
FORM	Predominately smooth, uniform in fore and mid-ground, contrasting, rugged, coarse and discontinuous in background	Indistinct, simple, smooth, low, rounded shrubs and forbes	Prominent, contrasting, smooth flat pavement in parking lot; vertical, narrow, tall, linear features from utility poles and lines.
LINE	Horizontal, linear unbroken line at head of alluvial fan/toe of slope, irregular, continuous horizon line along ridge. Diagonal/angular lines background.	Continuous, repetitive, simple in fore and mid ground, indistinct in background	Simple, vertical and repetitive from multiple utility poles; Prominent, bold, linear and geometric line from pavement edges.
COLOR	Patchy light tans to yellows from alluvial topsoils to dark brown and tan bands from exposed soil in background range	Monotonous, dull yellows and sporadic dark greens	Light grays to black from asphalt road surface, mixed light grays gravel surface, Dark brown utility poles.
TEXTURE	Fore/midground smooth and uniform, non-contrasting. Background contrasting, discontinuous, undulating	Stippled, scattered and continuous, uniform	Smooth and ordered

**SECTION C. PROPOSED ACTIVITY DESCRIPTION**

	1. LANDWATER	2. VEGETATION	3. STRUCTURES
FORM	Predominately smooth, uniform in fore and mid-ground. Indistinct in project area	Relatively indistinct in project area due to project scale and distance from project area.	Prominent, bold, blocky, symmetrical and linear. Geometric shapes from structures and PV modules.
LINE	Indistinct in project area from KOP. Outside of project area same as above.	Relatively indistinct in project area due to project scale and distance from project area.	Geometric, parallel, hard, angular. Vertical and horizontal
COLOR	Indistinct in project area. No change to undisturbed areas	Relatively indistinct in project area due to project scale and distance from project area.	Dark greens, gray, browns or tans, reflectivity from light. Light grays to black from asphalt parking lot surface.
TEXTURE	Smooth, uniform, matte	Relatively indistinct in project area due to project scale and distance from project area.	Buildings smooth, directional, matte, PV modules flat and smooth, uniform, continuous, glossy.

**SECTION D. CONTRAST RATING**     SHORT TERM     LONG TERM

1.	DEGREE OF CONTRAST	FEATURES												2. Does project design meet visual resource management objectives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)
		LANDWATER BODY (1)				VEGETATION (2)				STRUCTURES (3)				
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	
				X				X			X			
			X				X					X		
ELEMENTS	Form			X				X			X			3. Additional mitigating measures recommended? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)
	Line			X				X			X			
	Color		X				X					X		
	Texture		X				X					X		
Evaluator's Names											Date			
Dan Westermeyer											11/18/14			
Matt Simons											11/18/14			

Comments from item 2.

KOP 2 is located approximately 2.75 miles southeast of the project site along Highway 95 at the north edge of a travel rest stop located at the northwest end of Luning. The observation angle is slightly lower in elevation though relatively level with the project site. Due to the distance from the site and surrounding structures such as buildings, vehicles, utility lines and poles around the rest stop, the viewer would only observe a moderate contrast between the natural landscape and the PV modules due to local distractions and screening from these structures. This location provides a potentially longer viewing period of the LSEP if motorized travelers heading east or west along Highway 95 stop and exit their vehicles. Changes to the landscape form and line would be weak since little surface disturbance outside of the developed site would occur or be visible from this location. Contrasts to the vegetation would also be weak due to the distance from the site and the lack of height of the low growing desert salt scrub. The greatest contrast to the viewshed will most likely come from the field of PV modules due to the unavoidable and anticipated solar reflectivity depending on the time of day the viewer is at the rest stop and amount of direct sunlight available. Nighttime disturbances from project lighting should be minimal due to proposed mitigation measures. This project is expected to introduce a weak or moderate contrast to the form, line, color and texture of the land from this location and the change is considered acceptable for the proposed interim VRM Class IV designation.

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Additional Mitigating Measures (See item 3)

Project mitigation measures addressing paint colors for structures, site lighting, reclamation of disturbed areas, and reflectivity of distribution poles will be addressed in the EA. Please refer to Environmental Consequences section for specific mitigation recommendations.



Location of the proposed solar plant is below red arrow. Travelers heading east or west on Highway 95 from Hawthorne to Tonopah frequently stop at the Luning Rest Area which is located at the north end of the townsite. From Key Observation Point 2 the viewshed can be divided into three distinct boundaries: the fore, mid and background. The foreground has infrastructures such as buildings, roads and pavement along with junk vehicles and abandoned mining equipment. At the northern end of the rest stop parking area (photo) linear features such as utility line and poles, roads and lights are prominent features. The narrow midground is an open slightly concave alluvial fan sloping south to the valley floor. The background is rugged terrain comprised of broken ridges and canyons that form dark pyramidal, angular shapes that creates dark and light contrasts from shadows with predominant colors of dark browns and grays. Additional colors are stratified between dark and light bands from exposed mineral soils. Vegetation is low, uniform, and continuous indistinct salt desert scrub with predominate colors of yellow, and light tans or browns and occasional dark greens. Vegetation is under three feet in height and will not provide screening of the project. The ridgeline will be above the tallest of the project structures, thereby reducing impacts to the landscape lines since facilities will not protrude above the skyline.

From this observation point, the project will provide less of a visual impact to the existing landscape form and lines compared to the KOP 1 or 3 due to the existence of similar structures in and at the north end of the townsite. Greatest concern would be potential reflectivity from the PV panels.

<b>Project:</b> Luning Solar	<b>Date:</b> 11/18/14
<b>Evaluators:</b> Dan Westermeyer, Matt Simons	<b>Photo ID:</b> 2693
<b>Location ID:</b> KOP 2	<b>Lens Focal Length:</b> 50 mm
<b>Azimuth:</b> 350° NW	<b>Waypoint ID:</b>
<b>UTM East:</b> 397248.96	<b>UTM North:</b> 4262622.91

UNITED STATES  
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BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	11/18/14
District	Carson City
Resource Area	Stillwater Field Office
Activity (program)	Visual Resources

**SECTION A. PROJECT INFORMATION**

1. Project Name Invenergy Luning Solar	4. Location Township <u>8N</u> Range <u>33E</u> Section <u>25</u>	5. Location Sketch  See attached map
2. Key Observation Point KOP 3 Hwy 95 Material Site 2		
3. VRM Class Unclassified		

**SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION**

	1. LANDWATER	2. VEGETATION	3. STRUCTURES
FORM	Predominately smooth, uniform in fore and mid-ground, contrasting, rugged, coarse and discontinuous in background	Indistinct, simple, smooth, low, rounded shrubs and forbes	Prominent, contrasting, flat linear and narrow highway in foreground
LINE	Horizontal, linear unbroken line at head of alluvial fan/toe of slope, irregular, continuous horizon line along ridge. Diagonal/angular lines background.	Continuous, repetitive, simple in fore and mid ground, indistinct in background	Prominent, bold, straight, linear line from paved highway.
COLOR	Patchy light tans to yellows from alluvial topsoils to dark brown and tan bands from exposed soil in background range	Monotonous, dull yellows and sporadic dark greens	Light gray to black from asphalt road surface.
TEXTURE	Fore/midground smooth and uniform, non-contrasting. Background contrasting, discontinuous, undulating	Stippled, scattered and continuous, uniform	Smooth and ordered

**SECTION C. PROPOSED ACTIVITY DESCRIPTION**

	1. LANDWATER	2. VEGETATION	3. STRUCTURES
FORM	Predominately smooth, uniform in fore and mid-ground. Indistinct in project area	Relatively indistinct in project area due to project scale and distance from project area.	Indistinct bold, blocky, symmetrical and linear. Geometric shapes from structures and PV modules.
LINE	Indistinct in project area from KOP. Outside of project area same as above.	Relatively indistinct in project area due to project scale and distance from project area.	Geometric, parallel, hard, angular. Vertical and horizontal
COLOR	Indistinct in project area. No change to undisturbed areas	Relatively indistinct in project area due to project scale and distance from project area.	Dark greens, gray, browns or tans, reflectivity from light. Light gray to black from asphalt road surface
TEXTURE	Smooth, uniform, matte	Relatively indistinct in project area due to project scale and distance from project area.	Buildings smooth, directional, matte, PV modules flat and smooth, uniform, continuous, glossy.

**SECTION D. CONTRAST RATING**     SHORT TERM     LONG TERM

1.	DEGREE OF CONTRAST	FEATURES												2. Does project design meet visual resource management objectives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)
		LANDWATER BODY (1)				VEGETATION (2)				STRUCTURES (3)				
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	
				X				X				X		
				X				X				X		
ELEMENTS	Form			X				X				X		3. Additional mitigating measures recommended? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)
	Line			X				X				X		
	Color			X				X				X		
	Texture			X				X				X		
Evaluator's Names												Date		
Dan Westermeyer												11/18/14		
Matt Simons												11/18/14		

Comments from item 2.

KOP 3 is located along Highway 95 approximately 3.48 miles southwest and level with the project site. Due to the distance, contrast from structures, utility lines, poles and ground disturbances is expected to be weak. The viewer would only observe a moderate contrast between the natural landscape and the full project area versus individual structures which would blend in with the PV modules. The proposed material site, located south of the KOP will be in the viewshed of the motorized traveler for a short period of time and is not expected to impact the visual or scenic quality at unacceptable levels. Changes to the landscape form and line would be weak since little surface disturbance outside of the developed site would occur or be visible from this location. Contrasts to the vegetation would also be weak due to the distance from the site and the lack of height of the low growing desert salt scrub. The greatest contrast introduced to the viewshed will most likely come from the field of PV modules due to the unavoidable and anticipated solar reflectivity depending on the time of day the viewer is in the area and the amount of direct sunlight available. Introduced contrasts from the material site will be minimized through mitigation measures. Nighttime disturbances from project lighting should be minimal due to proposed mitigation measures. This project is expected to introduce a weak contrast to the form, line, color and texture of the land from this location and the change is considered acceptable for the proposed interim VRM Class IV designation.

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Additional Mitigating Measures (See item 3)

Project mitigation measures addressing paint colors for structures, site lighting, reclamation of disturbed areas, and reflectivity of distribution poles will be addressed in the EA. Please refer to Environmental Consequences section for specific mitigation recommendations.



Location of the proposed solar plant is below red arrow. Travelers heading east or west on Highway 95 (in foreground) from Hawthorne to Tonopah will be exposed to the project for the longest duration while traveling this section of road. From Key Observation Point 3 the viewshed can be divided into two distinct boundaries; the fore/mid ground and the background. The foreground and midground consists of an open, slightly concave, alluvial fan starting north from the foothills and sloping south to the valley floor. Vegetation is low and uniform, consisting of indistinct salt desert scrub with predominate colors of yellow, and light tans or browns and occasional dark green. The background consists of rugged terrain comprised of broken ridges and canyons that form dark pyramidal, angular shapes that provide dark and light contrasts from shadows with predominant colors of dark browns and grays. The continuous and undulating horizon line defined by the mountain range is prominent and distinct. Additional colors are stratified between dark and light bands from exposed mineral soils. The ridgeline will be above the tallest of the project structures, thereby reducing impacts to the landscape lines since facilities will not protrude above the skyline. Existing visible infrastructure which is similar with the proposed project consists of linear features from utility lines and poles, and paved roadway.

From this observation point, the PV panels, structures and transmission line will provide contrast to the existing landscape form and lines with the greatest potential impact from reflectivity off of the PV panels. However, due to the distance, impacts to the visual quality of the area will be somewhat diminished by the broken relief provided by the mountain range in the background. Vegetation is under three feet in height and will not provide screening of the project.

<b>Project:</b> Luning Solar	<b>Date:</b> 11/18/14
<b>Evaluators:</b> Dan Westermeyer, Matt Simons	<b>Photo ID:</b> 2696
<b>Location ID:</b> KOP 3	<b>Lens Focal Length:</b> 50 mm
<b>Azimuth:</b> 66° NE	<b>Waypoint ID:</b>
<b>UTM East:</b> 391113.85	<b>UTM North:</b> 4265203.06

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

VISUAL CONTRAST RATING WORKSHEET

Date	11/18/14
District	Carson City
Resource Area	Stillwater Field Office
Activity (program)	Visual Resources

**SECTION A. PROJECT INFORMATION**

1. Project Name Invenergy Luning Solar	4. Location Township <u>7 N, 8N</u> Range <u>33E, 34E</u> Section <u>multiple</u>	5. Location Sketch  See attached map
2. Key Observation Point KOP 4 Hwy 95 and Hwy 361		
3. VRM Class Unclassified		

**SECTION B. CHARACTERISTIC LANDSCAPE DESCRIPTION**

	1. LANDWATER	2. VEGETATION	3. STRUCTURES
FORM	Predominately smooth, uniform in fore and mid-ground, contrasting, rugged, coarse and discontinuous in background	Indistinct, simple, smooth, low, rounded shrubs and forbes	Prominent, contrasting, flat linear and narrow highway in foreground
LINE	Horizontal, linear unbroken line at head of alluvial fan/toe of slope, irregular, continuous horizon line along ridge. Diagonal/angular lines background.	Continuous, repetitive, simple in fore and mid ground, indistinct in background	Prominent, bold, straight, linear line from paved highway.
COLOR	Patchy light tans to yellows from alluvial topsoils to dark brown and tan bands from exposed soil in background range	Monotonous, dull yellows and sporadic dark greens	Light gray to black from asphalt road surface.
TEXTURE	Fore/midground smooth and uniform, non-contrasting. Background contrasting, discontinuous, undulating	Stippled, scattered and continuous, uniform	Smooth and ordered

**SECTION C. PROPOSED ACTIVITY DESCRIPTION**

	1. LANDWATER	2. VEGETATION	3. STRUCTURES
FORM	Predominately smooth, uniform in fore and mid-ground.	Indistinct, simple, smooth, low, rounded shrubs and forbes	Indistinct bold, blocky, symmetrical and linear. Geometric shapes from structures and PV modules. Indistinct from most of Hwy 95
LINE	Horizontal, linear	Continuous, repetitive, simple in fore and mid ground, indistinct in background	Geometric, parallel, hard, angular. Vertical and horizontal
COLOR	Patchy light tans to yellows from alluvial topsoils to dark brown and tan bands from exposed soil in background range	Monotonous, dull yellows and sporadic dark greens	Dark greens, gray, browns or tans, reflectivity from light. Light gray to black from asphalt road surface
TEXTURE	Smooth, uniform, matte in foreground, contrasting, discontinuous, undulating in background	Stippled, scattered and continuous, uniform	Buildings smooth, directional, matte, PV modules flat and smooth, uniform, continuous, glossy. Indistinct from most of Hwy 95

**SECTION D. CONTRAST RATING**     SHORT TERM     LONG TERM

1.	DEGREE OF CONTRAST	FEATURES												2. Does project design meet visual resource management objectives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)
		LANDWATER BODY (1)				VEGETATION (2)				STRUCTURES (3)				
		Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	Strong	Moderate	Weak	None	
ELEMENTS	Form		X							X				3. Additional mitigating measures recommended? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain on reverse side)
	Line		X							X				
	Color		X								X			
	Texture		X								X			
Evaluator's Names												Date		
Dan Westermeyer												11/18/14		
Matt Simons												11/18/14		

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**SECTION D. (Continued)**

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Comments from item 2.

KOP 4 is a linear KOP located along Highway 95 and Highway 361 selected to represent the view of motorized travelers along the two highways bordering the LSEP. The viewshed along Highway 361 is approximately 6 total miles along Highway 361 and 20 total miles along Highway 95 and the vehicle speed and viewing time varies depending on the section of highway being traveled. The following table projects the average viewing time the project would be visible to a driver or passenger in a vehicle as it drives towards or adjacent to the LSEP site.

Highway Section	Viewing Distance (miles)	Avg Speed (mph)	Viewing Time (minutes)
361 from 95 junction north	2.8	55	3.1
361 south to 95 junction	3.8	55	4.2
95 east to west	8.0	35	13.8
95 west to east	14.0	70	12.0

Traveling from Highway 95 east to west, contrast to the viewer would be minimal for most of the travel time due to the distance to the project and similar development seen in and around the town of Luning. The highest contrast would be when the traveler is pass directly south of the LSEP since the site would be in direct view. Traveling east on Highway 95 would provide high contrast since the project would be in the travelers field of view for a longer period of time and there would be less obstructions to distract the viewer from the project. Traveling north or south along highway 361 would also result in high contrast for a short period of time (3-4 minutes) since the traveler would be closest to the LSEP site and have full view with no distractions. While a contrast to the form, line, color and texture would be noticeable from any direction on either Highway, it is within the acceptable parameters of the VRM Class IV designation.

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Additional Mitigating Measures (See item 3)

Project mitigation measures addressing paint colors for structures, site lighting, reclamation of disturbed areas, and reflectivity of distribution poles will be addressed in the EA. Please refer to Environmental Consequences section for specific mitigation recommendations.



Representative sample of linear KOP 4, which depicts the travelers view of the project along Highways 361 and 95. Project area is past the transmission line, on either side of the highway, near the arrow. Highway 95 is located in an east/west direction at the junction of the valley floor and the toe of the range mid photo.

For information on the viewing time and contrast rating, refer to Contrast Rating KOP4 LSEP

<b>Project:</b> Luning Solar	<b>Date:</b> 11/18/14
<b>Evaluators:</b> Dan Westermeyer, Matt Simons	<b>Photo ID:</b> 2554
<b>Location ID:</b> KOP 4	<b>Lens Focal Length:</b> 50 mm
<b>Azimuth:</b> 200° SSW	<b>Waypoint ID:</b>
<b>UTM East:</b> 397976.91	<b>UTM North:</b> 4214479.02