Scenery

SUNZIA SOUTHWEST TRANSMISSION PROJECT FEIS/RMPA

General Reference Features

- City
- State Highway
- U.S. Highway
- Interstate
- River/Stream
- Railroad
- County Boundary
- State Boundary
- Jurisdictional Boundary
- Wilderness/Wilderness Study Area (WSA)
- Lake/Reservoir

Project Features

- Substation Site
- Alternative Transmission Line Route

Inventory Key

Resource Inventory

CLASSIFICATION

EXISTING TRANSMISSION LINE

- 138 & 345kV Transmission Line
- 230kV Transmission Line
- 500kV Transmission Line

LANDSCAPE/CHARACTER TYPE

Class A
101 - Craggy Creek
102 - Sky Island
103 - Red Granitic Region
104 - Desert Canyon
105 - Red Rock River Parkway
106 - Sonoran Plateau
107 - Sonoran Scrub
108 - Sonoran Scrub Mixed Cacti Desert Mountains

Class B
109 - Hybrid Transitional Endemics
110 - Chihuahuan Highland Grassland
111 - San Pedro River Valley Escarpment
112 - Arizona Creek Region
113 - Chihuahuan Continental Riparian
114 - North American Volcanic Desert Region

Class C
115 - Alluvial Floodplain
116 - Sonoran Desert
117 - Sonoran Desert and Cacti Desert Mountains

Class D
118 - Sonoran Desert and Cacti Desert Mountains

Landscape Character Type

Class A
Developed

Impact Key

Impact Levels

- High
- Moderate - High
- Moderate
- Low - Moderate
- Low

Sources:

- ESRI StreetMap 2010
- Arizona State Land Department 2010
- United States Geological Survey, National Elevation Dataset 1999-2010

CONTOUR INTERVAL 50 Meters

Inset A

Inset B

Legend

Study Corridor

Residual Impact
Visual Resource Inventory Classification

General Reference Features:
- City
- County Boundary
- State Boundary
- U.S. Highway
- Interstate
- River/Stream
- Railroad
- Wilderness/Wilderness Study Area (WSA)

Project Features:
- Substation Site
- Alternative Transmission Line Route

Inventory Key:
- Field Office Identifier
- Link Identifier
- Reference Centerline Identifier
- Study Corridor
- Link Identifier

Resource Inventory:
- BLM Field Office
- VRI Class I
- VRI Class II
- VRI Class III
- VRI Class IV

Visual Resource Inventory Classification Notes:
- VRI data shown extends beyond the study corridor and may include land that is not managed by the BLM.

Sources:
- Arizona Bureau of Land Management 2009
- Safford Resource Management Plan 2009
- Socorro Resource Management Plan 2009

Base Data:
- United States Geological Survey National Elevation Dataset 1999-2010

Map Location:
- Western Area
- Eastern Area

Figure M 9-4E
SUNZIA SOUTHWEST TRANSMISSION PROJECT FEIS/RMPA

April 2013

Scale in M lin
Visual Resource Management Compliance

SUNZIA SOUTHWEST TRANSMISSION PROJECT
FEIS/RMPA

General Reference Features
- City
- County Boundary
- State Boundary
- Jurisdictional Boundary
- Wilderness/Wilderness Study Area (WSA)
- Lake/Reservoir
- Railroad

Project Features
- Substation Site
- Alternative Transmission Line Route

Inventory Key

Resource Inventory

BUREAU OF LAND MANAGEMENT (BLM)
VISUAL RESOURCE MANAGEMENT OBJECTIVES (VRM)

Class I Objective – to retain the existing character of the landscape. This class provides for natural ecological changes; however, it does not preclude very limited management activity. The level of change to the characteristic landscape should be very low and must not attract attention.

Class II Objective – to partially retain the existing character of the landscape. The level of change to the characteristic landscape should be low. Management activities may be seen, but should not detract the attention of the casual observer. Any changes must not impact the basic elements of form, line, color, and texture found in the predominant natural features of the characteristic landscape. Changes should respect the basic elements found in the predominant natural features of the characteristic landscape.

Class III Objective – to partially retain the existing character of the landscape. The level of change to the characteristic landscape should be moderate. Management activities may attract attention, but should not dominate the site of the observer. Changes should respect the basic elements found in the predominant natural features of the characteristic landscape.

Class IV Objective – to provide for management activities, which require major modifications of the existing character of the landscape. The level of change to the characteristic landscape can be high. These management activities may dominate the site and the predominant natural features of the characteristic landscape. Changes should respect the basic elements found in the predominant natural features of the characteristic landscape.

EXISTING TRANSMISSION LINE
- 115kV Transmission Line
- 138 & 161kV Transmission Line
- 234kV Transmission Line
- 345kV Transmission Line
- 500kV Transmission Line

Compliance Key

VRM Compliance
1 - Compliant
2 - Not Compliant

Sources:
- Energy 540
- United States Bureau of Land Management (BLM)
- White Sands Resource Management Plan 1986
- West Texas National Forest Management Plan 2009
- Study Corridors

April 2013

Legend
- Midpoint Substation
- Substation Site
- Alternative Transmission Line Route
- Existing Transmission Line
- 115kV Transmission Line
- 138 & 161kV Transmission Line
- 234kV Transmission Line
- 345kV Transmission Line
- 500kV Transmission Line
- Project Feature
- Existing Feature
- Human Impacts
- Study Corridors

Contour Interval 50 Meters

Figure M 9-5E

Sources:
- United States Bureau of Land Management (BLM)
- White Sands Resource Management Plan 1986
- West Texas National Forest Management Plan 2009
- Study Corridors

April 2013

Legend
- Midpoint Substation
- Substation Site
- Alternative Transmission Line Route
- Existing Transmission Line
- 115kV Transmission Line
- 138 & 161kV Transmission Line
- 234kV Transmission Line
- 345kV Transmission Line
- 500kV Transmission Line
- Project Feature
- Existing Feature
- Human Impacts
- Study Corridors

Contour Interval 50 Meters

Figure M 9-5E

Sources:
- United States Bureau of Land Management (BLM)
- White Sands Resource Management Plan 1986
- West Texas National Forest Management Plan 2009
- Study Corridors

April 2013

Legend
- Midpoint Substation
- Substation Site
- Alternative Transmission Line Route
- Existing Transmission Line
- 115kV Transmission Line
- 138 & 161kV Transmission Line
- 234kV Transmission Line
- 345kV Transmission Line
- 500kV Transmission Line
- Project Feature
- Existing Feature
- Human Impacts
- Study Corridors

Contour Interval 50 Meters
The level of change to the characteristic landscape should be high.

Changes should repeat the basic elements found in the characteristic landscape, but should not dominate the view of the casual observer. Any changes must repeat the basic elements of form, line, color, and texture found in the characteristic natural features of the characteristic landscape.

The level of change to the characteristic landscape should be moderate. Management activities may affect view, but should not alter the view of the casual observer. Changes should repeat the basic elements found in the characteristic natural features of the characteristic landscape.

The level of change to the characteristic landscape should be low. Management activities may be seen, but should not attract the attention of the casual observer. The level of change to the characteristic landscape should be a

Class II Objective - to partially retain the existing character of the landscape. The level of change to the characteristic landscape should be moderate. Management activities may affect view, but should not change the view of the casual observer. Changes should repeat the basic elements found in the characteristic natural features of the characteristic landscape.

Class III Objective - to provide the primary management activities, which require major modifications of the existing character of the landscape. The level of change to the characteristic landscape should be high. These management activities may dominate the view and be the major focus of viewer attention. However, every attempt should be made to minimize the impact of these activities through careful location, minimal disturbance, and respecting the basic elements of form, line, color, and texture found in the characteristic natural features of the characteristic landscape.

Compliance Key
- Total Impact
- Study Center

Sources:
- Bureau of Land Management, 2015
- Department of Energy, 2015
- Environmental Protection Agency, 2015
- National Park Service, 2016
- U.S. Forest Service, 2016
- U.S. Department of Interior, 2016
- U.S. Department of Agriculture, 2016
- Virginia Department of Transportation, 2016
Figure M 10-4E

Utilities

SUNZIA SOUTHWEST TRANSMISSION PROJECT
FEIS/RMPA

General Reference Features:
- City
- County Boundary
- State Boundary
- Jurisdictional Boundary
- Wilderness/Wilderness Study Area (WSA)
- River/Stream
- Railroad

Project Features:
- Substation Site
- Alternative Transmission Line Route

Inventory Key

Resource Inventory

Substations
- Existing Substation Site
- Planned Substation Site

Existing Transmission Lines
- 500 kV
- 345 kV
- 230 kV
- 138 kV
- 115 kV

Existing Pipelines
- Pipeline (diameter 6 inch or larger)

Proposed Transmission Lines
- TEP Proposal to Tortolita 320 kV Project
- Southwest Transmission CO-OP 230 kV

Utility Corridors
- Sources/RO Utility Corridor
- DOE West Wide Corridor

Sources:
- U.S. Department of Energy, Certificate of Environmental Compatibility, Department of Interior's certificate 2009
- Geocore Environmental, 2009
- U.S. Department of the Interior, National Biological Survey 2008
- American Indian Policy 2008
- U.S. Department of Agriculture, National Geographic Society 2008
- New Mexico Bureau of Land Management 2008
- EPA, Inc. 2008
- Contour Interval 30 Meters

April 2013
General Reference Features:
- City
- State Highway
- U.S. Highway
- Interstate
- River/Stream
- Rail/road
- County Boundary
- State Boundary
- Jurisdictional Boundary
- Wildfire/Air Quality Study Area (WASA)

Resource Inventory:
- SUBSTATIONS
  - Existing Substation Site
  - Planned Substation Site
- EXISTING TRANSMISSION LINES
  - 500 kV
  - 345 kV
  - 230 kV
  - 138 kV
- PROPOSED TRANSMISSION LINES
- TEP/NE Central to Toltec 345 kV Project
- Southwest Transmission CO-OP 230 kV
- EXISTING PIPELINES
  - Pipeline (diameter 6 inch or larger)
- UTILITY CORRIDORS
  - Second Country Corridor
  - DOE Wide Border Corridor

Inventory Key:
- Mineral Lode
- U.S. National Forest
- Federal Watershed
- State Parks
- State Historical Sites
- State Forests
- State Reserves
- State Land Use Categories
- City Limit
- Limit of Rural Use
- Study Corridor
- Limit of Adjacent Use

Sources:
- Resource Data:
  - Socorro Resource Management Plan 2009
  - United States Department of Energy, Certificate of Environmental Compatibility, Section 368
  - U.S. Bureau of Land Management, Office of Environmental Impact
  - United States Geological Survey, National Elevation Dataset 1999-2010

- Base Data:
  - ESRI StreetMap 2010
  - New Mexico Bureau of Land Management 2009
  - Arizona State Land Department 2010
  - Arizona Bureau of Land Management 2010

- Contour Interval: 50 Meters

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