

## **Exhibit J-1. Stakeholder Group Information Packets**

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# Rosemont 138-kV Transmission Line Project

## Stakeholder Group Handbook

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# ROSEMONT 138-KV TRANSMISSION LINE PROJECT

## STAKEHOLDER GROUP

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### MEMBERSHIP

The purpose of the Stakeholder Group is to establish a group representing a range of opinions in a forum small enough to allow for thorough education of the participants, detailed discussion of issues, and informal dialogue. EPG, Inc. (EPG) contacted various individuals/organizations for selection of the members that would assist Tucson Electric Power (TEP) and EPG in identifying issues and concerns relevant to the proposed project. Representation of a cross-section of the region includes federal, state, county, and municipal agencies that have administrative jurisdiction within the project area; industry/business; and citizens on behalf of their neighborhoods. Members were selected based on their knowledge of the project area, capability to commit the time required to participate in the Stakeholder Group throughout the planning process, and willingness to participate in an impartial manner.

### ROSTER OF STAKEHOLDER GROUP MEMBERS

#### Federal

- Bev Everson (beverson@fs.fed.us)/Teresa Ann Ciapusci (tciausci@fs.fed.us), Coronado National Forest
- Cindy Alvarez (Cindy\_alvarez@blm.gov)/Dan Moore (Daniel\_J\_Moore@blm.gov), Bureau of Land Management, Tucson

#### State

- Tim Bolton (tbolton@land.az.gov), Arizona State Land Department
- Steve Husman (husman@ag.arizona.edu), Santa Rita Experimental Range

#### City/Town

- Chris Kaselemis (chris.kaselemis@tucsonaz.gov), City of Tucson
- Orlanthia Henderson (ohenderson@ci.sahuarita.az.us)/John Neuneubel (jneuneubel@ci.sahuarita.az.us), Town of Sahuarita
- Eddie Peabody (emerald5@cox.net), Planning and Zoning Committee, Green Valley Coordinating Council

#### Industry/Business

- Bob Iannarino (biannarino@diamondven.com)/Mark Weinberg (mweinberg@diamondven.com)/Ken Abrahams (kabraahams@diamondven.com), Diamond Ventures
- Nan Walden (nswalden@greenvalleypecan.com), Farmers Investment Company

#### Citizens at Large

- Marshall Magruder (marshall@magruder.org)

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Stakeholder Group Roster

Rosemont 138-kV Transmission Line Project  
Tucson Electric Power

1

EPG  
February 12, 2009

## PROJECT TEAM

### Tucson Electric Power

- Ed Beck (ebeck@tep.com)
- Shannon Breslin (sbreslin@tep.com)
- Lee Aitken (laitken@tep.com)
- Larry Lucero (llucero@tep.com)

### EPG, Inc. – Phone (602) 956-4370

- Lauren Weinstein (lweinstein@epgaz.com)
- Jaime Wood (jwood@epgaz.com)
- Chelsa Johnson (cjohnson@epgaz.com)
- Emily Belts (ebelts@epgaz.com)

### Rosemont Copper

- Kathy Arnold (karnold@rosemontcopper.com)
- Laurie Woodall, KR Saline (law@krsaline)

# ROSEMONT 138-KV TRANSMISSION LINE PROJECT

## ROLES AND RESPONSIBILITIES

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### STAKEHOLDER GROUP

#### Role

The Rosemont 138-kV Project Stakeholder Group (SG) has been established to participate with the study team in the planning process for the proposed project. The SG is an important link to the community; therefore, the SG members should consider the views of the individual group members as well as the views of their representative organizations/communities.

#### Responsibilities

- Specifically, input will be sought from the SG members on the following:
  - Issues, ideas, and concerns held by the SG members and/or members of the community/organization in which they are involved
  - Resource information and studies
  - Criteria by which alternative(s) are identified
  - Alternative routes identified
  - Impact assessment and mitigation
  - Route selection process
  - Review and comment on study results at key points

- Consistency is very important. We ask that you attend all of the SG meetings planned (four) throughout the process.

Meetings will be organized to maximize the time available (approximately 2 hours). If a SG member would like a particular topic addressed, contact Chelsa Johnson or Lauren Weinstein at EPG (602-956-4370) prior to the meeting.

- Regular communication by SG members with their organizations, agencies, or communities is encouraged. Members of the SG accept the responsibility to keep their associates and constituency groups informed of the progress of the discussions and to seek advice and comments.
- Attendance at public open house meetings is encouraged.
- Information disseminated by SG members can be attributed only to an individual and not the entire group.

## **EPG**

### **Role**

EPG is conducting the environmental and public planning process to site a proposed 138-kV transmission line required to meet future electrical demand for the proposed Rosemont operations. Facilitating the public involvement portion of the planning process includes working with the SG and conducting other activities to inform and involve the community.

### **Responsibilities**

- Notify members of SG of meeting dates and times.
- Host and facilitate all meetings.
- Identify and track all issues discussed at SG meetings. Provide information on any decisions made by the project study team in response to issues raised by SG.
- Provide relevant technical information to SG in conjunction with the planning process.
- Consider and incorporate the SG's views in the planning process.

## **TUCSON ELECTRIC POWER**

### **Role**

During the public planning process, Tucson Electric Power (TEP) will be the technical advisor to the SG. TEP will also serve as the lead contact with the media.

### **Responsibilities**

- Provide a description of the project.
- Provide an explanation of the purpose of and need for the project.
- Provide information, TEP policy, and/or relevant data sufficient to address issues and concerns raised by the SG and public.
- Provide technical information (e.g., engineering, system planning) sufficient to enhance the SG's understanding of the project.
- Select alternative(s) to be carried forward for detailed environmental impact analysis.

Select preferred route(s) to be carried forward in the CEC application and before the Arizona Power Plant and Transmission Line Siting Committee based on the various

decision elements: environmental, public acceptability, permits, engineering, right-of-way acquisition, cost, purpose and need

## **ROSEMONT COPPER COMPANY**

### **Role**

During the public planning process, Rosemont Copper Company (RCC) will work with TEP to provide technical data as necessary, ensure power requirements are well defined and that all options for receiving power are identified. RCC will also provide assistance for TEP's identification and selection of route options to be carried forward for detailed environmental impact analyses.

### **Responsibilities**

- Provide resource information and studies.
- Monitor meetings and participate, as necessary or as requested.

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## **Rosemont 138-kV Transmission Line Project**

### **Agenda – Stakeholder Group Meeting #1**

February 12, 2009, 11:00am – 1:30pm  
Unisource building, 2<sup>nd</sup> Floor Conference Room  
One South Church Street  
Tucson, Arizona 85702

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- Welcome and introductions
- Agenda
- Roles and responsibilities of stakeholder group
- Electric systems - basics
- Planned facilities and study area
- Purpose and need for the project
  - TEP's system planning process
- Planning process and public participation activities
- Environmental studies
  - Inventory
  - Siting criteria
  - Opportunities and constraints
- Comments and questions
- Next meeting
- Action Items

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# ROSEMONT 138-KV TRANSMISSION LINE PROJECT

## Presentation Stakeholder Group Meeting #1 February 12, 2009

February 12, 2009

## Agenda

- Welcome and introductions
- Roles and responsibilities
- Project overview: project study area, purpose and need, description, and system alternatives
- Planning process and schedule
- Environmental studies
- Agency and public participation activities
- Tucson Electric Power (TEP) decision elements
- Comments and questions
- Next steps



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
2

## Stakeholder Group Purpose

- Represent agencies and land management jurisdictions, community members, constituents
- Attend and actively participate in four stakeholder group meetings at key points in the planning process



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
3

## Stakeholder Group - Roles and Responsibilities

- Member attendance
- Identify key issues throughout the planning process
- Communicate project information to your constituents
- Review and comment on study results at key points
- Attend public open house meetings



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
4

## Project Overview

- TEP, as a part of its obligation to serve, is proposing to construct and operate a new 138-kV transmission line for the proposed Rosemont Copper operations
- Project area is located south of Tucson and includes lands managed by City of Tucson, Town of Sahuarita, Pima County, and federal agencies
- A planning process that includes environmental studies and public input will be conducted to assist in identification and comparison of alternative transmission line routes and environmental impacts



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
5

## Project Overview (continued)

- An extensive public outreach program will be implemented throughout the planning process
- An application for a Certificate of Environmental Compatibility (CEC) will be submitted to the Arizona Corporation Commission (ACC)
- The project requires recommendation from the Arizona Power Plant and Transmission Line Siting Committee and final approval by ACC prior to construction
- Project area consists of land predominantly owned by Arizona State Land Department, Forest Service, interspersed with some BLM and privately-owned lands



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
6

## Purpose and Need

- Electric utilities are required by the State of Arizona to provide electrical service to customers upon request
- Rosemont Copper Company has requested TEP to provide electric power to the Rosemont Copper operations
- The primary purpose and need for the proposed transmission line is to provide adequate and reliable power for the proposed Rosemont Copper operations
- Currently, there are no existing transmission lines and substations to serve this proposed operation



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
7

## Project Description

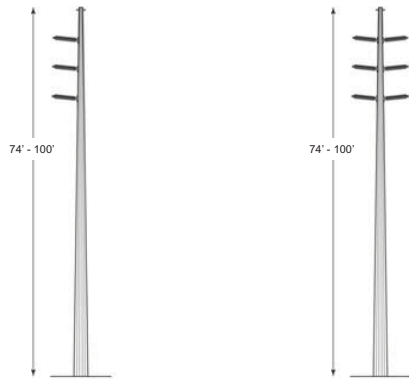
- Up to approximately 30 miles of 138-kV transmission line
- A 100-foot-wide right-of-way
- Approximately 1 acre of land for construction, operation, and maintenance for the proposed Rosemont Substation
- Upgrades to existing substations will not require additional property



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
8

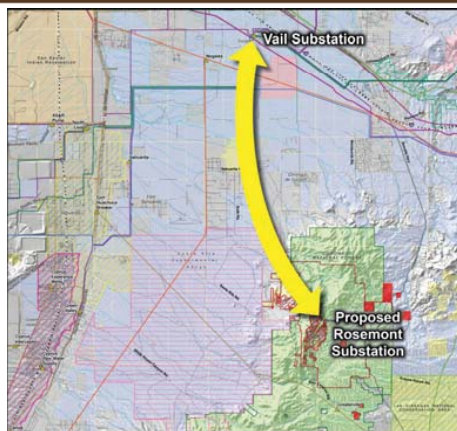
## Proposed Structure Type(s)



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
9

## System Option A



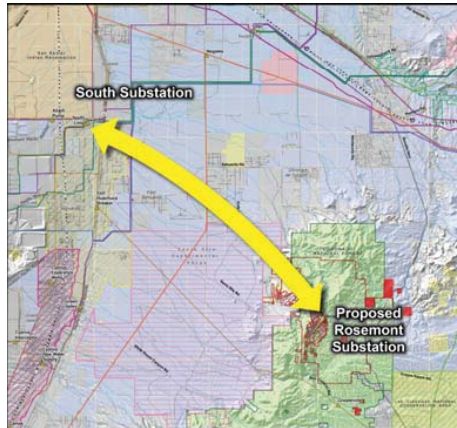
- New single-circuit 138-kV transmission line from Vail Substation to proposed Rosemont Substation
- Up to 20 miles



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
10

## System Option B



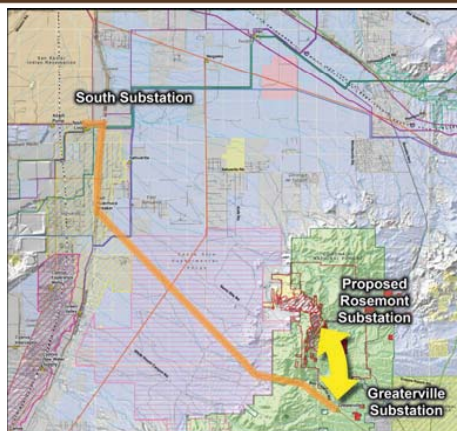
- New single-circuit 138-kV transmission line from South Substation to proposed Rosemont Substation
- Up to 28 miles



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
11

## System Option C



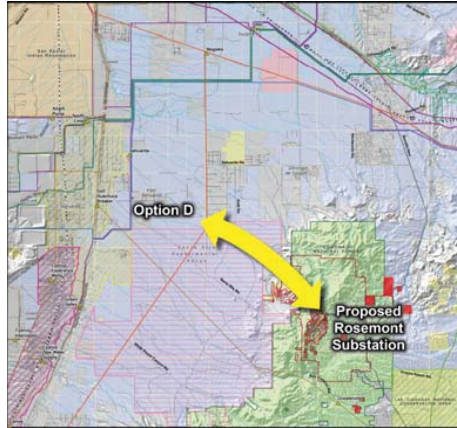
- Rebuild existing 46-kV line to double-circuit 138-kV/46-kV transmission line from South Substation to Greaterville Substation – up to 23 miles
- New single-circuit 138-kV transmission line from Greaterville Substation to proposed Rosemont Substation – up to 7 miles



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
12

## System Option D



- New single-circuit 138-kV transmission line from a new substation near Wilmot Road to proposed Rosemont Substation
- Up to 15 miles



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
13

## Planning Process

- Comprehensive planning process consisting of six key tasks
- Studies include environmental and engineering analysis, along with agency/public input
- Several alternatives will likely be identified and evaluated to meet project purpose and need
- TEP will identify a preferred route(s) for permitting and construction, as well as alternative routes



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
14

## Planning Process (continued)

- TEP will prepare and file a CEC application to be reviewed by the Arizona Power Plant and Transmission Line Siting Committee
- The ACC will make a final decision to approve or deny the CEC application (with any conditions)



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
15

## Anticipated Project Schedule



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
16



## Environmental Studies Overview

- Environmental resources
  - Land use (existing/future land use and jurisdictional planning guidelines)
  - Visual (scenic quality, sensitive viewers, and scenic management guidelines)
  - Cultural (national register sites, archaeological sites, as well as other eligible sites)
  - Biology (wildlife, vegetation, rare species, and sensitive habitat)



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
17

## Preliminary Alternatives Identification

- Develop siting criteria (sensitivity levels and opportunities within study area)
- Determine opportunities and/or compatibility of resources inventoried (e.g., industrial = low sensitivity/high compatibility vs. parks = high sensitivity/low compatibility)
- Prepare siting opportunities and constraints analysis map
- Identify preliminary link alternatives for transmission line routes



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
18

## Sensitivity Levels

- Incompatible – e.g., airports
- High sensitivity – e.g., residences
- Moderate sensitivity – e.g., retail shopping areas, offices, government buildings
- Low sensitivity – e.g., industrial areas, undeveloped areas, utility facilities



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
19

## Potential Opportunities

- Existing linear features
  - Utilities
    - Power lines
    - Pipelines
  - Transportation
    - Major roads/arterials
    - Railroads
- Industrial areas
- Vacant/undeveloped lands without specific future conflicting development plans



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
20

## Potential Constraints

- Existing residences
- Future approved residential developments
- Educational facilities (e.g., schools)
- Parks and recreation
- Archaeological sites and historic properties
- Known special status species locations or critical habitat



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
21

## Agency and Public Participation Activities

TEP Letter to Community Leaders:

- Coronado National Forest
- Bureau of Land Management
- Arizona State Land Department
- Pima County, City of Tucson, Town of Sahuarita, Green Valley Coordinating Council, Vail/Cienega Corridor Volunteer (Mayors, Managers, Development Directors, Planners, etc.)
- Pima County Association of Governments



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
22

## Agency and Public Participation Activities

(continued)

- Tohono O’odham Nation (San Xavier District)
- Pascua Yaqui Tribe
- Arizona Corporation Commission staff
- Southern Arizona Legislative Representatives
- University of Arizona, Santa Rita Experimental Range
- Davis-Monthan Air Force Base



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
23

## Agency and Public Participation Activities

- Stakeholder group meetings
  - Spring and Summer 2009
- Public open house meetings
  - Spring and Summer 2009



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
24

## Agency and Public Participation Activities

- Telephone information line (866) 632-5944
- TEP website ([www.tep.com](http://www.tep.com))
- Arizona siting committee FAQs website:  
[www.cc.state.az.us/Divisions/Utilities/Electric/LineSiting-FAQs.asp](http://www.cc.state.az.us/Divisions/Utilities/Electric/LineSiting-FAQs.asp)
- Project newsletters mailed to community, including residents, landowners, and other interested parties
- Media briefings (TEP)



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
25

## TEP Decision Elements

- Purpose and need
- Environmental
- Public input
- Permits
- Engineering
- Ability to obtain right-of-way
- Cost



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
26

## Comments and Questions

- Do you understand the project purpose and need and proposed facilities?
- Do you understand the planning process?
- Are there additional parties that should be brought into the planning process?
- Are there additional data that should be considered in the studies?
- Other?



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
27





## Next Steps

- Public open house meeting #1
- Alternative link identification
- Stakeholder Group meeting #2



ROSEMONT 138-KV TRANSMISSION LINE PROJECT

February 12, 2009  
28

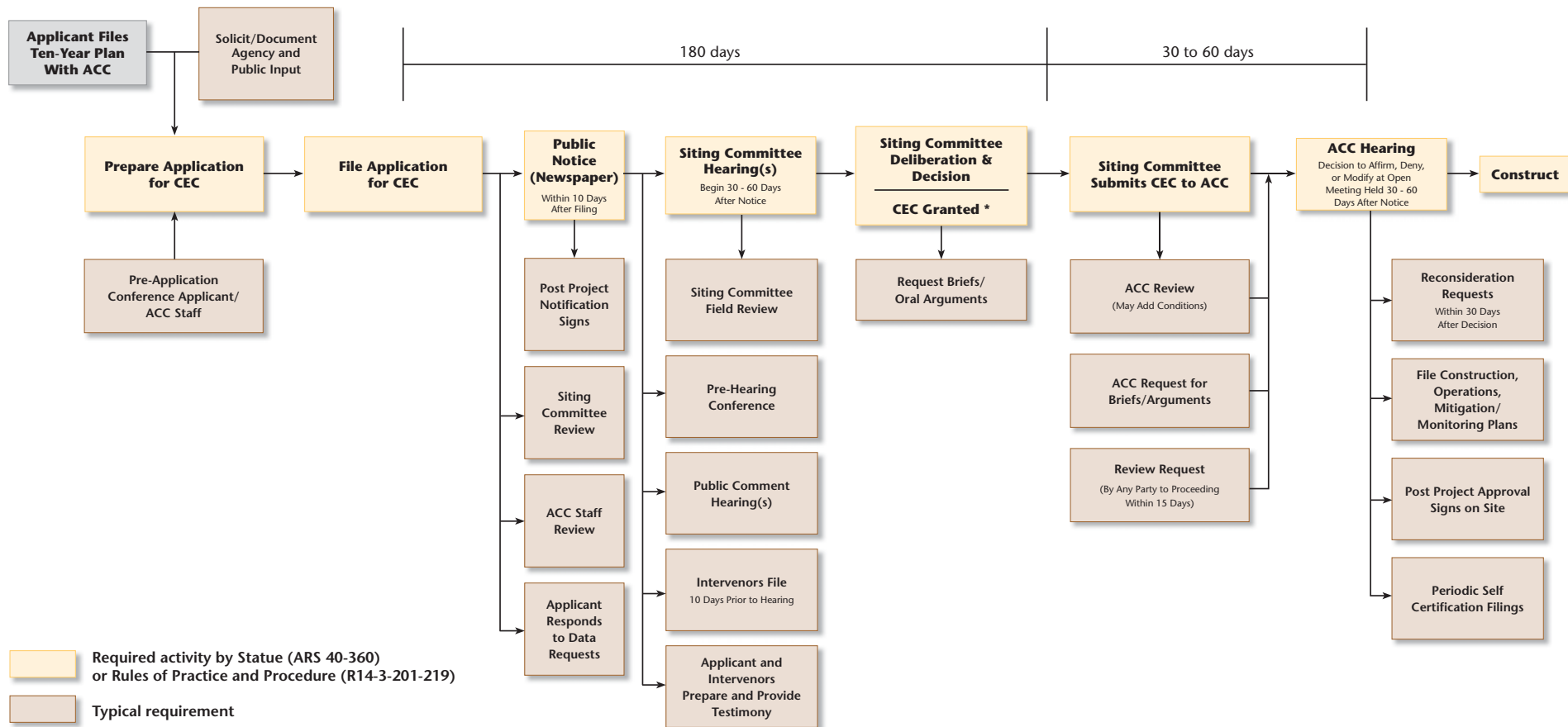
	<b>TASK 1</b> SITING CRITERIA, DEFINE STUDY AREA, AND SECONDARY DATA COLLECTION	<b>TASK 2</b> OPPORTUNITIES/CONSTRAINTS ANALYSIS AND ALTERNATIVES IDENTIFICATION	<b>TASK 3</b> DETAILED INVENTORY AND ALTERNATIVES ASSESSMENT	<b>TASK 4</b> ALTERNATIVES SELECTION AND RESOURCE SURVEYS	<b>TASK 5</b> PREPARATION AND FILING OF CEC APPLICATION	<b>TASK 6</b> CEC HEARINGS
<b>ENGINEERING</b> 	<ul style="list-style-type: none"> <li>Review and approve preliminary alternatives siting criteria</li> <li>Review and approve project study area</li> <li>Finalize project purpose and need statement</li> <li>Finalize project description</li> <li>Provide typical structure design(s) and substation layout</li> </ul>	<ul style="list-style-type: none"> <li>Finalize engineering alternatives (e.g., rebuilding existing structures)</li> <li>Review and approve final alternatives</li> </ul>	<ul style="list-style-type: none"> <li>Review impact assessment criteria</li> <li>Review alternatives assessment results</li> <li>Develop and review mitigation measures and plan</li> </ul>	<ul style="list-style-type: none"> <li>Identify preferred engineering alternative(s)</li> <li>Review visual simulations</li> <li>Select preferred route and alternative(s) to be presented in CEC application, in coordination with customer: Rosemont Copper</li> </ul>	<ul style="list-style-type: none"> <li>Prepare CEC application</li> <li>Print and file CEC application</li> <li>Review and approve application</li> <li>File and notice application</li> </ul>	<ul style="list-style-type: none"> <li>Prepare and provide testimony for Arizona Power Plant and Transmission Line Siting Committee</li> <li>Review and approve supplemental CEC application filing (as necessary)</li> <li>Prepare draft CEC Form of Order</li> <li>Prepare for and attend ACC hearing</li> </ul>
<b>ENVIRONMENTAL PLANNING</b> 	<ul style="list-style-type: none"> <li>Develop preliminary alternatives siting criteria</li> <li>Review preliminary alternatives</li> <li>Prepare study area base map</li> <li>Collect and map secondary environmental data</li> </ul>	<ul style="list-style-type: none"> <li>Identify environmental opportunities and constraints</li> <li>Identify and finalize alternatives</li> </ul>	<ul style="list-style-type: none"> <li>Collect additional data for alternatives</li> <li>Conduct field surveys to support resources inventory</li> <li>Develop impact assessment criteria</li> <li>Conduct alternatives impact assessment and mitigation planning</li> </ul>	<ul style="list-style-type: none"> <li>Compare and rank alternatives</li> <li>Prepare visual simulations</li> <li>Identify preferred environmental alternative(s)</li> <li>Document alternative comparison and selection results</li> <li>Conduct cultural resource survey of preferred alternative</li> <li>SHPO consultation</li> <li>Prepare cultural resource survey report</li> </ul>	<ul style="list-style-type: none"> <li>Prepare environmental portions of CEC application</li> <li>Assist with filing and noticing application</li> </ul>	<ul style="list-style-type: none"> <li>Prepare and provide testimony for Arizona Power Plant and Transmission Line Siting Committee</li> <li>Prepare testimony slides for supplemental CEC application filing</li> <li>Prepare virtual route tour (optional)</li> <li>Assist with preparation of draft CEC Form of Order</li> <li>Prepare for and attend ACC hearing</li> </ul>
<b>PUBLIC INVOLVEMENT</b>  	<ul style="list-style-type: none"> <li>Conduct community leader briefings</li> <li>Identify and contact stakeholders</li> <li>Prepare project fact sheet #1</li> <li>Review project purpose and need and description</li> <li>Track and respond to comments</li> </ul>	<ul style="list-style-type: none"> <li>Prepare for and conduct stakeholder group meeting #1</li> <li>Develop mailing list</li> <li>Prepare and distribute newsletter #1</li> <li>Prepare for and conduct public open house #1</li> <li>Prepare for and conduct stakeholder group meeting #2</li> <li>Prepare and distribute newsletter #2</li> <li>Prepare for and conduct public open house #2</li> <li>Review alternatives</li> <li>Track and respond to comments</li> </ul>	<ul style="list-style-type: none"> <li>Prepare for and conduct stakeholder group meeting #3</li> <li>Track and respond to comments</li> </ul>	<ul style="list-style-type: none"> <li>Prepare for and conduct stakeholder group meeting #4</li> <li>Prepare and distribute newsletter #3</li> <li>Prepare for and conduct public open house meeting #3</li> <li>Review alternative assessment and selection</li> <li>Track and respond to comments</li> </ul>	<ul style="list-style-type: none"> <li>Prepare stakeholder and public involvement summary to support CEC application</li> <li>Track and respond to comments</li> </ul>	<ul style="list-style-type: none"> <li>Prepare hearing notice and post signs in project area (announcing CEC application filing and hearings)</li> <li>Track and respond to comments</li> </ul>
<b>TIMELINE</b>	September 2008 - February 2009	February - April 2009	April - May 2009	May - July 2009	May - July 2009	July - October 2009

**Planning Process and Responsibilities**  
Certificate of Environmental Compatibility (CEC) Application  
Rosemont 138-kV Transmission Line Project

February 12, 2009

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\* Decision within 180 days after receipt of application (R14-3-213), subject to extension

ACC: Arizona Corporation Commission  
 CEC: Certificate of Environmental Compatibility  
 Siting Committee: Arizona Power Plant & Transmission Line Siting Committee



February 2009

Tucson Electric Power  
 Rosemont 138kV Transmission Line Project

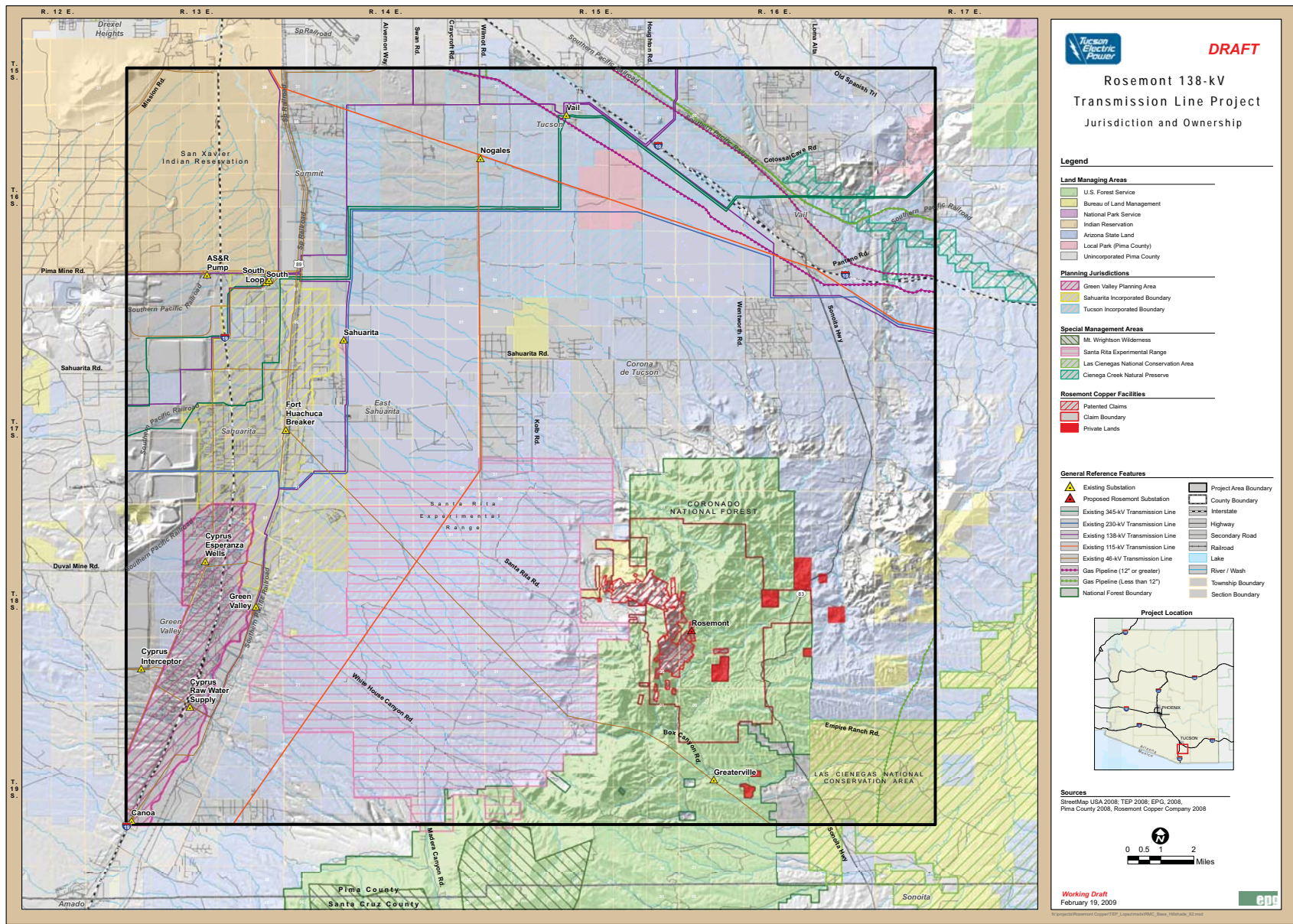
J-41



**Arizona Power Plant and Transmission Line Siting Process**  
 Certificate of Environmental Compatibility  
 Rosemont 138-kV Transmission Line Project

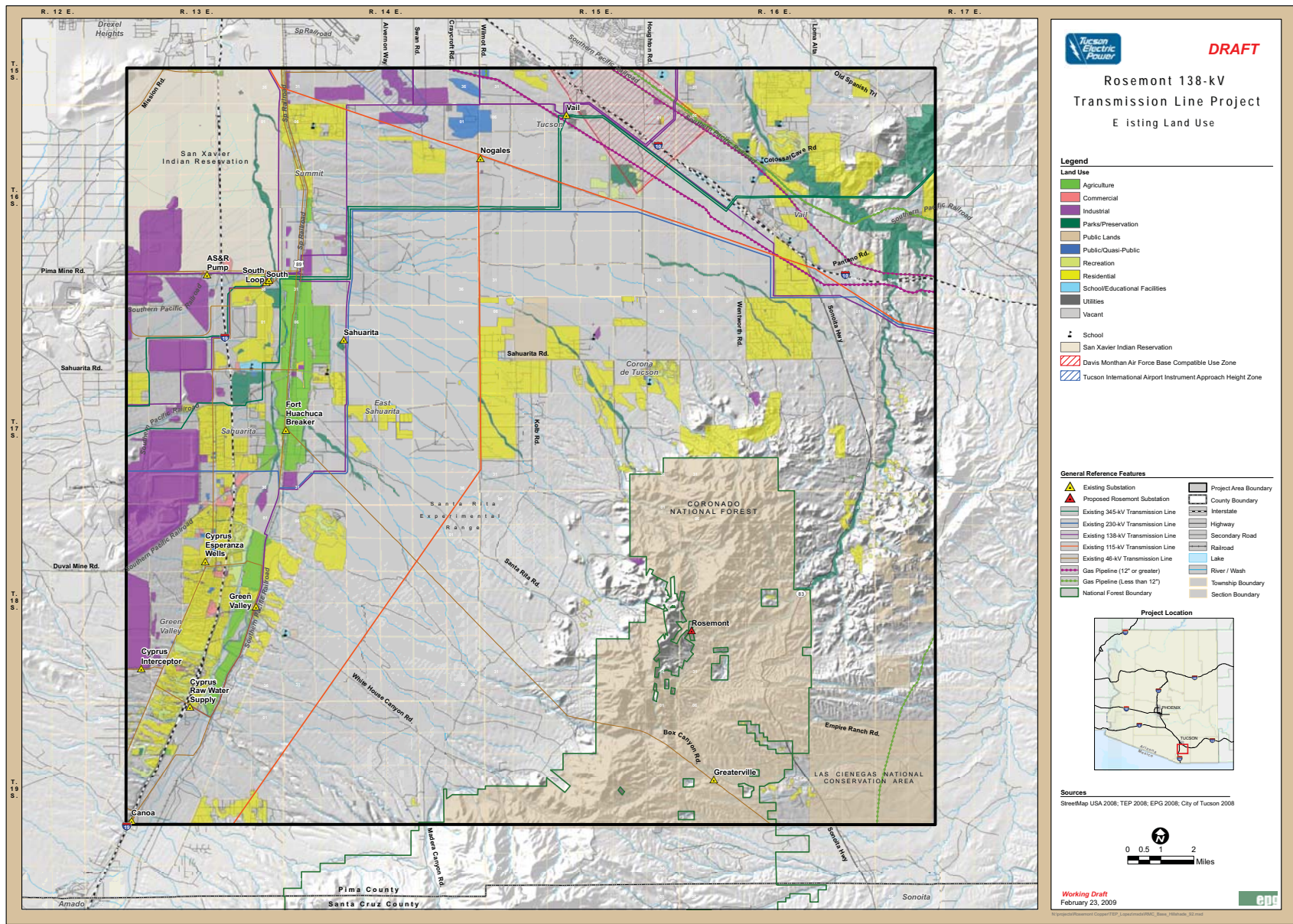
CEC Application  
 November 2011

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## **ROSEMONT 138-KV SITING PROJECT**

### **General Siting Criteria – Opportunity and Constraint Analysis**

An analysis of the individual resources' sensitivity to the construction and operation of a transmission line will be conducted. Sensitivity is that measure of the probable adverse response of each resource to direct and indirect impacts associated with the construction, operation, maintenance, and abandonment of the proposed transmission line. Criteria to be used in this determination included the following considerations:

- **Resource Value:** A measure of rarity, high intrinsic value or worth, singularity or diversity of a resource within the study area or region.
- **Protective Status:** A measure of the formal concern expressed for a resource either through legal protection or by designation of special status.
- **Present or Future Uses:** A measure of the level of conflict based on policies of land management agencies and/or use.

The resources will then be mapped according to their respective sensitivity levels (including levels that fall in between the major categories), as follows:

- **Incompatible** – Areas where either legal status (i.e., designated wilderness or jurisdictional policy [e.g., active airports]) would prohibit, or most likely prohibit, the location of transmission facilities. Location of exclusion (or incompatibility) will be considered to be undesirable for location of transmission lines.
- **High Sensitivity Areas** – Areas determined to be less suitable because of unique, highly valued, complex, historic or protected resources and significant potential conflict with use, or areas posing substantial hazards to construction and operation of the transmission line. Locations of high sensitivity will be considered least desirable for siting the transmission line.
- **Moderate Sensitivity Areas** – Areas of potential environmental impact because of important, valued resources; resources assigned special status; some conflict with current or planned use. Locations of moderate sensitivity will be considered less desirable for siting the transmission line.
- **Low Sensitivity Areas** – Areas where the resource conflicts that have been identified through the regional environmental study process are minimal. These areas of low sensitivity will be considered as minimal sensitivity or opportunities for locating the lines, particularly in existing power line corridors.

**Opportunities:** Existing and future linear features such as transmission lines, highways/roads, and canals are typically considered opportunities for siting and constructing future transmission lines. Opportunities are considered within the context of the sensitive resources throughout the study area. For example, an existing transmission line corridor may provide an opportunity to construct a new transmission line while minimizing environmental effects; however, there may also be adjacent or underlying environmental resources (e.g., residences or archaeological sites) that pose constraints which need to be considered during the siting, permitting, and construction of a new transmission line.

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FACILITY SITING CRITERIA WORK SHEET DRAFT SENSITIVITY LEVELS – ROSEMONT 138-KV TRANSMISSION LINE			
Resource Category	Proposed Sensitivity Level	Stakeholder Group Suggested Sensitivity Level	Rationale For Suggested Change
<b>Existing Land Use and Visual Resources</b>			
Residential	High		
Schools/Educational Facilities	High		
Scenic Roads/Parkways (e.g., State Route 83)	Moderate-High		
Parks/Preservation	High		
Recreation Areas, Open Space, Golf Courses, and Trails/Trailhead	Moderate-High		
Commercial Retail/Commercial	Moderate		
Hotel/Resort	Moderate		
Agricultural Land (pecan groves)	Moderate		
Vacant Land	Low		
Industrial	Low		
Major Property Boundaries (section lines, half-section lines)	Low-Moderate		
<b>Public/Quasi-Public</b>			
- Church	High		
- Cemetery	High		
- Government Buildings	Moderate		
- Detention Facilities (Prisons)	Low		
<b>Visual Classifications – BLM (VRM), Forest Service (VQO)</b>			
- VRM Class I	Incompatible		
- VRM Class II	Moderate-High		
- VRM Class III	Low-Moderate		
- VRM Class IV	Low		
- VQO Preservation	Incompatible		
- VQO Retention	High		
- VQO Partial Retention*	Moderate-High		
- VQO Modification	Low-Moderate		
- VQO Maximum Modification	Low		
Restricted Peaks and Ridges	Moderate-High		
<b>Future Land Use and Visual Resources</b>			
Residential Planned – Plat Approved	Moderate-High		
Residential Planned – Zoning Approved	Moderate		
Residential Planned – Conceptual/General/Comprehensive Plan	Low-Moderate		

<b>FACILITY SITING CRITERIA WORK SHEET</b> <b>DRAFT SENSITIVITY LEVELS – ROSEMONT 138-KV TRANSMISSION LINE</b>			
<b>Resource Category</b>	<b>Proposed Sensitivity Level</b>	<b>Stakeholder Group Suggested Sensitivity Level</b>	<b>Rationale For Suggested Change</b>
Commercial Planned – Plat Approved	Moderate		
Commercial Planned – Zoning Approved	Low-Moderate		
Commercial Planned – Conceptual/General/Comprehensive Plan	Low		
Parks /Preservation – Plat Approved	Moderate-High		
Parks /Preservation – Zoning Approved	Moderate		
Parks/Preservation – Conceptual/General/Comprehensive Plan	Low-Moderate		
Recreation Areas, Open Space, Golf Courses, and Trails/Trailhead – Plat Approved	Moderate		
Recreation Areas, Open Space, Golf Courses, and Trails/Trailhead – Zoning Approved	Low-Moderate		
Recreation Areas, Open Space, Golf Courses, and Trails/Trailhead – Conceptual/General/Comprehensive Plan	Low		
Utility Facilities Planned – Concept Stage	Low		
Utility Facilities Planned – Plat Approved	Low		
Mixed Use – Plat Approved	Moderate		
Mixed Use – Zoning Approved	Low-Moderate		
Mixed Use – Conceptual/General/Comprehensive Plan	Low-Moderate		
Military – Plat Approved	Moderate		
Military – Zoning Approved	Low-Moderate		
Military – Conceptual/General/Comprehensive Plan	Low		
<b>Cultural Resources</b>			
Listed or Proposed National or State Register Properties	Moderate-High		
<b>Biological Resources</b>			
Pima County Wildlife Corridors	Low-Moderate		
Santa Cruz River	Moderate		
Cienega Creek Natural Preserve	High		
Davidson Canyon	High		
Las Cienegas National Conservation Area	Moderate		
Pima County Conservation Lands System			
- Agricultural Inholdings within Conservation	Low		

FACILITY SITING CRITERIA WORK SHEET DRAFT SENSITIVITY LEVELS – ROSEMONT 138-KV TRANSMISSION LINE			
Resource Category	Proposed Sensitivity Level	Stakeholder Group Suggested Sensitivity Level	Rationale For Suggested Change
Area			
- Biological Core Management Areas	Low-Moderate		
- Important Riparian Areas	Low-Moderate		
- Multiple Use Management Areas	Low		
- Designated Scientific Research Areas	Low-Moderate		
<b>Existing Opportunities</b>			
Roads/Major Arterial Roadways	NA		
Pipelines	NA		
Railroads	NA		
Utility Facilities (substations, etc.)	NA		
46-kV Overhead Transmission Line Corridors	NA		
115-kV/138-kV Overhead Transmission Line Corridors	NA		
230-kV/345-kV Overhead Transmission Line Corridors	NA		
<b>Future (Planned) Opportunities</b>			
Roads/Major Arterial Roadways - Approved	NA		
Roads/Major Arterial Roadways - Conceptual/General/Comprehensive Plan	NA		
*Sensitivity level modification may occur after evaluation of edge condition (e.g., residential areas adjacent to major arterial roads and 46-kV and above power lines).			

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## **Rosemont 138kV Transmission Line Project**

### **Agenda – Stakeholder Group Meeting #2**

July 22, 2009, 11:00am – 2:00pm

Unisource building, 2<sup>nd</sup> Floor Conference Room

One South Church Street

Tucson, Arizona 85702

- 
- Welcome and introductions
  - Agenda
  - Planning process review
  - Engineering studies
  - Public comments received
  - Environmental studies
    - Final siting criteria
    - Opportunities and constraints analysis
  - Preliminary link alternative identification
  - Next steps
  - Comments and questions

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# ROSEMONT 138KV TRANSMISSION LINE PROJECT

## STAKEHOLDER GROUP

### Revised from February 2009

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#### MEMBERSHIP

The purpose of the Stakeholder Group is to establish a group representing a range of opinions in a forum small enough to allow for thorough education of the participants, detailed discussion of issues, and informal dialogue. EPG, Inc. (EPG) contacted various individuals/organizations for selection of the members that would assist Tucson Electric Power (TEP) and EPG in identifying issues and concerns relevant to the proposed project. Representation of a cross-section of the region includes federal, state, county, and municipal agencies that have administrative jurisdiction within the project area; industry/business; and citizens on behalf of their neighborhoods. Members were selected based on their knowledge of the project area, capability to commit the time required to participate in the Stakeholder Group throughout the planning process, and willingness to participate in an impartial manner.

#### ROSTER OF STAKEHOLDER GROUP MEMBERS

##### Federal

- Kent Ellett ([kellest@fs.fed.us](mailto:kellest@fs.fed.us)), representative for the transmission line on behalf of the Coronado National Forest
  - Bev Everson ([beverson@fs.fed.us](mailto:beverson@fs.fed.us))
  - Teresa Ann Ciapucci ([tciaucci@fs.fed.us](mailto:tciaucci@fs.fed.us))
- Linda Hughes ([Linda\\_hughes@blm.gov](mailto:Linda_hughes@blm.gov)), representative for the transmission line on behalf of the Bureau of Land Management, Tucson
  - Cindy Alvarez ([Cindy\\_alvarez@blm.gov](mailto:Cindy_alvarez@blm.gov))
  - Dan Moore ([Daniel\\_J\\_Moore@blm.gov](mailto:Daniel_J_Moore@blm.gov))
- Mark Harting ([mark.harting@aztucs.af.mil](mailto:mark.harting@aztucs.af.mil), [markkonharting@gmail.com](mailto:markkonharting@gmail.com)), representative for Davis Monthan AFB airspace management

##### State

- Tim Bolton ([tbolton@land.az.gov](mailto:tbolton@land.az.gov)), Arizona State Land Department
- Steve Husman ([husman@ag.arizona.edu](mailto:husman@ag.arizona.edu)), Santa Rita Experimental Range

##### City/Town

- Chris Kaselemis ([chris.kaselemis@tucsonaz.gov](mailto:chris.kaselemis@tucsonaz.gov)), City of Tucson
- Orlanthia Henderson ([ohenderson@ci.sahuarita.az.us](mailto:ohenderson@ci.sahuarita.az.us)), Town of Sahuarita
- Eddie Peabody ([emerald5@cox.net](mailto:emerald5@cox.net)), Planning and Zoning Committee, Green Valley Coordinating Council

#### Industry/Business

- Bob Iannarino (biannarino@diamondven.com)/Mark Weinberg (mweinberg@diamondven.com)/Ken Abrahams (kabrahams@diamondven.com), Diamond Ventures
- Nan Walden (nswalden@greenvalleypecan.com)/Larry Robertson (tubaclawyer@aol.com), Farmers Investment Company

#### Citizens

- Marshall Magruder (marshall@magruder.org)
- Elizabeth Webb (vailaz@hotmail.com)

### PROJECT TEAM

#### Tucson Electric Power

- Ed Beck (ebeck@tep.com)
- Shannon Breslin (sbreslin@tep.com)
- Lee Aitkin (laitken@tep.com)
- Larry Lucero (llucero@tep.com)
- Erik Bakken (ebakken@tep.com)
- Cory Pintor (cpintor@tep.com)

#### EPG, Inc. – Phone (602) 956-4370

- Lauren Weinstein (lweinstein@epgaz.com)
- Jaime Wood (jwood@epgaz.com)
- Chelsa Johnson (cjohnson@epgaz.com)
- Emily Belts (ebelts@epgaz.com)

#### Rosemont Copper

- Kathy Arnold (karnold@rosemontcopper.com)
- Laurie Woodall, KR Saline (law@krsaline)



# ROSEMONT 138KV TRANSMISSION LINE PROJECT

**Presentation**  
Stakeholder Group Meeting #2  
July 22, 2009

## Agenda

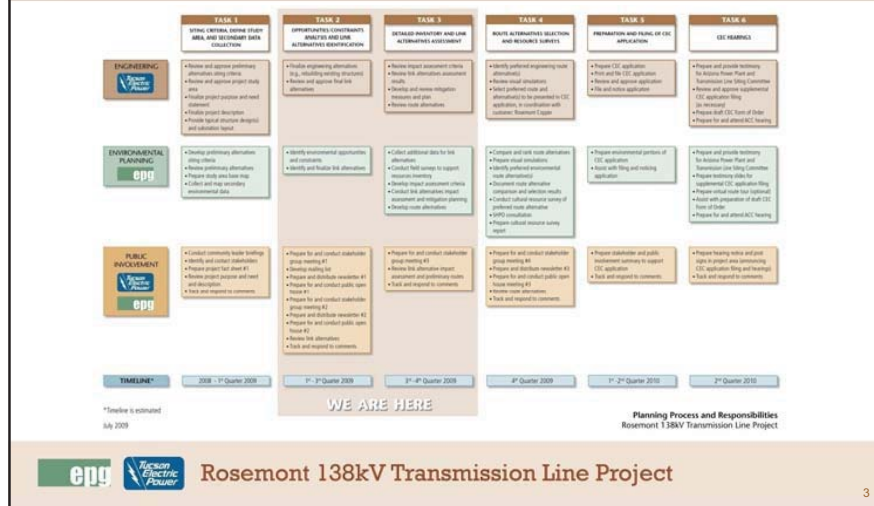
- Welcome and introductions
- Planning process review
- Engineering studies
- Public comments received
- Environmental studies
- Preliminary link alternative identification
- Next steps
- Comments and questions



Rosemont 138kV Transmission Line Project

2

## Planning Process



## Engineering Studies

- Technical engineering studies completed by Rosemont and TEP to refine the project description
- Project description refined to identify a point at which the proposed transmission line will tap into TEP's electrical system at a proposed switchyard. This proposed switchyard will tap the existing South Substation to Green Valley 138kV transmission line and become the point of origin for the proposed transmission line
- Current plan of service does not include direct connection to Vail or South substations
- Study concluded that two components are required for the transmission line project
  - power for construction from a proposed 138kV transmission line extending from existing Greaterville Substation to proposed Rosemont Substation
  - power for operations from a proposed 138kV transmission line extending from proposed switchyard to proposed Rosemont Substation

## Public Comments Received

- Approximately 430 comment forms, letters, and phone messages were received to date
- Summary of public concerns:
  - Location of alternatives near scenic or open space areas
  - Financial implications to Rosemont and TEP customers
  - Potential impacts to property values and taxes
  - Potential of undergrounding the transmission line
  - Potential source of power other than a transmission line for the Rosemont operations



Rosemont 138kV Transmission Line Project

5

## Environmental Studies

### Resource Data Collected

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>– <b>Land use</b><ul style="list-style-type: none"><li>• existing and future land use</li><li>• jurisdictional planning guidelines</li></ul></li><li>– <b>Visual and recreation</b><ul style="list-style-type: none"><li>• scenic quality</li><li>• sensitive viewers</li><li>• scenic management guidelines</li><li>• Roads/trails and trailheads</li></ul></li></ul> | <ul style="list-style-type: none"><li>– <b>Cultural</b><ul style="list-style-type: none"><li>• archaeological districts</li><li>• National Register or State Historic Districts or Sites</li></ul></li><li>– <b>Biological</b><ul style="list-style-type: none"><li>• wildlife and habitat</li><li>• vegetation</li><li>• special status species</li></ul></li></ul> |
|--|--|



Rosemont 138kV Transmission Line Project

6

## Resource Sensitivity Levels Overview

- **Low:** potential resource constraints are minimal or absent, typically representing areas most desirable for building transmission lines (e.g., industrial, vacant/undeveloped lands)
- **Low-moderate:** potential resource constraints are present, but conflicts or issues would likely be minimized with conventional design and construction methods (e.g., existing commercial, general planned residential areas)
- **Moderate:** potential resource constraints are present, but conflicts or issues would likely be reduced or minimized with conventional and non-conventional design and construction methods (e.g., agricultural [pecan groves], conceptually planned residential areas)



Rosemont 138kV Transmission Line Project

7

## Resource Sensitivity Levels Overview (continued)

- **Moderate-high:** potential resource constraints are present, but conflicts or issues would likely be reduced with conventional and non-conventional design or mitigation measures (e.g., recreation areas, plat-approved residential areas)
- **High:** potential resource constraints are present where there are unique, highly valued, complex, or legally protected resources; conflicts or issues would be more difficult to avoid or reduce with the conventional and non-conventional design or mitigation measures (e.g., existing residential development)
- **Incompatible:** potential resource constraints are present where agencies have an adopted management plan or regulatory guidelines, which identify transmission lines as incompatible or in conflict with existing or future resources (e.g., designated wilderness areas)



Rosemont 138kV Transmission Line Project

8

## Opportunities and Constraints

- Based upon resources within the project study area
- Sensitivity levels assigned based upon established criteria for each resource
- Sensitivity levels assist in identifying potential constraints for building a transmission line
- Opportunities are considered within the context of the areas in which they occur
  - A constraint may be underlying or adjacent to an opportunity area



Rosemont 138kV Transmission Line Project

9

## Transmission Line Siting Criteria (page 1 of 2)

SENSITIVITY OF RESOURCES		
Resource Category	Sensitivity Level*	
<b>Existing Land Use Resources</b>		
Residential	High	-Concern Level 1 (High concern roads and trails) – Moderate
Schools/Educational Facilities	High	Midground (1/2 to 4 miles)
Commercial Retail	Low-Moderate	-Concern Level 2 (Moderate concern roads and trails) – Immediate Foreground (0-300 feet) Moderate
Hotel/Resort	Moderate	-Concern Level 2 (Moderate concern roads and trails) – Foreground (300 feet - 1/2 mile) Moderate
Agricultural Land (pecan groves)	Low	-Concern Level 2 (Moderate concern roads and trails) – Midground (1/2 to 4 miles) Low-Moderate
Vacant/Undeveloped Land	Low	
Industrial	Low	
Public/Quasi-Public		
- Church	High	
- Cemetery	High	
- Government Buildings	Low-Moderate	
<b>Existing Recreation Resources</b>		
Parks	High	
Wilderness Area	Incompatible	
Inventoried Roadless Area	High	
Developed National/Regional Trail	High	
Local Trails (County or City designated)	Moderate-High	
Trailheads, Picnic areas, and campgrounds	High	
<b>Existing Visual Resources</b>		
Scenic Roads	High	
<b>Visual Classifications – BLM (VRM), Forest Service Concern Level Roads</b>		
- VRM Class II	Moderate-High	
- VRM Class III	Low-Moderate	
- Concern Level 1 (High concern roads and trails) – Immediate Foreground (0-300 feet)	High	
- Concern Level 1 (High concern roads and trails) – Foreground (300 feet - 1/2 mile)	High	
- Concern Level 1 (High concern roads and trails) – Midground (1/2 to 4 miles)	Moderate	
- Concern Level 2 (Moderate concern roads and trails) – Immediate Foreground (0-300 feet)	Moderate	
- Concern Level 2 (Moderate concern roads and trails) – Foreground (300 feet - 1/2 mile)	Moderate	
- Concern Level 2 (Moderate concern roads and trails) – Midground (1/2 to 4 miles)	Low-Moderate	
<b>Future Land Use Resources</b>		
Residential Planned – Plat Approved	Moderate-High	
Residential Planned – Zoning Approved	Moderate	
Residential Planned – Conceptual/General Comprehensive Plan	Low-Moderate	
Commercial Planned – Plat Approved	Low-Moderate	
Commercial Planned – Conceptual/General Comprehensive Plan	Low	
Mixed Use – Conceptual/General Comprehensive Plan	Low-Moderate	
Plan		
Military – Plat Approved	Moderate	
Industrial Facilities – Plat Approved	Low	
Industrial Facilities – Conceptual/General Comprehensive Plan	Low	
<b>Future Recreation Resources</b>		
Parks – Plat Approved	Moderate-High	
Parks – Conceptual/General Comprehensive Plan	Low-Moderate	
National/Regional Trails – Plat Approved	Moderate-High	
Local Trails (County or City designated) – Conceptual/General Comprehensive Plan	Low	



Rosemont 138kV Transmission Line Project

10

## Transmission Line Siting Criteria (page 2 of 2)

<b>Existing Cultural Resources</b>	
Listed or Eligible National or State Register Properties	Moderate-High
<b>Existing Biological Resources</b>	
Pima County Wildlife Corridors	Low-Moderate
Santa Cruz River	Moderate
Bar V Ranch (Pima County 2004 Conservation Bond Program)	Moderate-High
Las Chiriquitas National Conservation Area	Moderate-High
<b>Pima County Conservation Lands System</b>	
- Agricultural Inholdings within Conservation Area	Low
- Biological Core Management Areas	Low-Moderate
- Important Riparian Areas	Low-Moderate
- Multiple Use Management Areas	Low
- Designated Scientific Research Areas	Low-Moderate
<b>Opportunities</b>	
<b>Existing Linear Facilities</b>	
Roads/Major Arterial Roadways	
Railroads	
Utility Facilities (substations, etc.)	
Section lines, half-section lines	
46kV Overhead Transmission Line Corridors	
115kV/138kV Overhead Transmission Line Corridors	
230kV/345kV Overhead Transmission Line Corridors	
<b>Future (Planned) Linear Facilities</b>	
Roads/Major Arterial Roadways - Approved	
Roads/Major Arterial Roadways - Conceptual/General/Comprehensive Plan	
Pipelines (e.g., water, wastewater)	
Utility Facilities (transmission lines, substations)	

Notes: Sensitivity level modification may occur after evaluation of edge condition (e.g., residential areas adjacent to major arterial roads and 46kV and above power lines).

\*The agencies/public provided comments and suggestions to add or revise the resource category and/or sensitivity levels in February and March 2009 resulting in the final criteria.



Rosemont 138kV Transmission Line Project

11

## Opportunities

- Existing/future linear features
  - Transportation
    - Interstate 19
    - Major highways/arterials (e.g., Santa Rita Road)
    - Railroads
    - Future transportation corridors
  - Utilities
    - Irrigation canals
    - Transmission lines
    - Pipelines (e.g., gas, water, wastewater)
- Industrial areas
- Vacant/undeveloped lands without specific future development plans



Rosemont 138kV Transmission Line Project

12

## Constraints

- Existing residences or master planned communities
- Future approved residential developments
- Schools
- Areas with adopted management guidelines restricting the siting of transmission line facilities
- Designated scenic roads
- Regional and local parks
- Known National Register or State Historic Districts or Sites
- Known special status species locations or critical habitat



Rosemont 138kV Transmission Line Project

13

## Key Terms Defined

- **Right-of-way:** land authorized to be used or occupied for the construction, operation, and maintenance of a linear facility
- **Corridor:** a tract of land of varying width that allows the flexibility for a transmission line to be located within to accommodate final engineering and environmental considerations
- **Preliminary link:** short segment of a preliminary transmission line route between other intersecting segments
- **Link node:** intersecting point where two links meet
- **Route or routes:** series of links connecting the proposed switchyard and proposed Rosemont Substation



Rosemont 138kV Transmission Line Project

14

## Preliminary Link Alternative Identification

- Define sensitivity criteria for resources inventoried (e.g., general industrial – low sensitivity vs. existing residential – high sensitivity)
- Conduct opportunities and constraints analysis for resources inventoried (e.g., transmission lines, existing, and future land use)
- Prepare opportunities and constraints map
- Identify preliminary link alternatives
  - Agency/public comment
  - Environmental
  - Engineering



Rosemont 138kV Transmission Line Project

15

## Link Alternative Screening and Route Identification

- Link alternatives will be screened based on more detailed environmental and engineering analysis, as well as agency/public input
- Link alternatives will be combined to form complete transmission line routes between the proposed switchyard and proposed Rosemont Substation



Rosemont 138kV Transmission Line Project

16



## TEP Decision Elements

- Purpose and need
- Environmental
- Public/agency input
- Permits
- Engineering
- Ability to obtain right-of-way
- Cost



Rosemont 138kV Transmission Line Project

17

## Next Steps

- Public information open house meeting #2  
(August 27, 2009)
- Detailed inventory and impact assessment
- Route alternatives identification
- Stakeholder meeting #3 (TBD)



Rosemont 138kV Transmission Line Project

18

## Questions and Comments



Rosemont 138kV Transmission Line Project

19

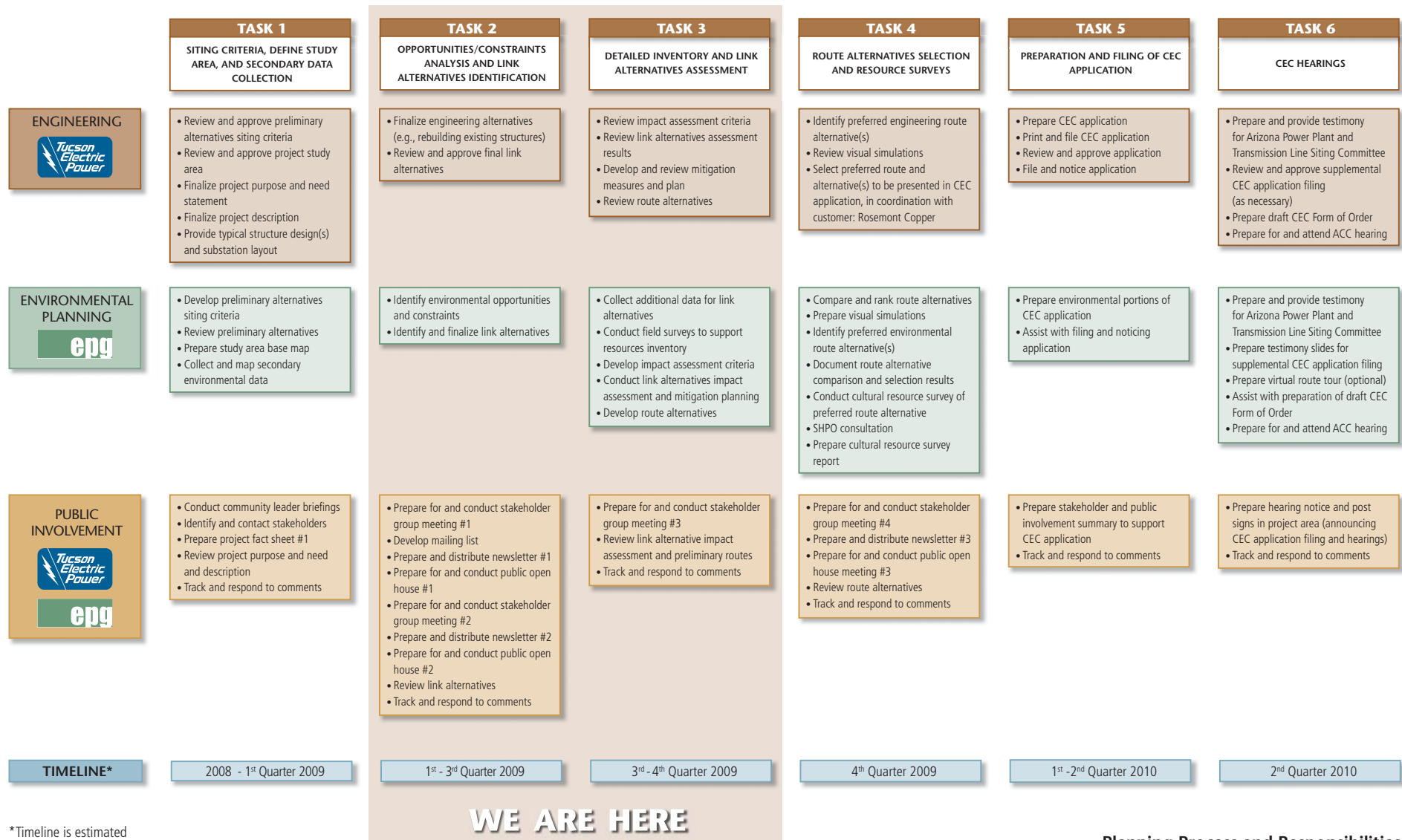
<b>SENSITIVITY OF RESOURCES</b>	
<b>Resource Category</b>	<b>Sensitivity Level*</b>
<b>Existing Land Use Resources</b>	
Residential	High
Schools/Educational Facilities	High
Commercial Retail	Low-Moderate
Hotel/Resort	Moderate
Agricultural Land (pecan groves)	Moderate
Vacant/Undeveloped Land	Low
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- Government Buildings	Low-Moderate
<b>Existing Recreation Resources</b>	
Parks	High
Wilderness Area	Incompatible
Inventoried Roadless Area	High
Developed National/Regional Trail	High
Local Trails (County or City designated)	Moderate-High
Trailheads, Picnic areas, and Campgrounds	High
<b>Existing Visual Resources</b>	
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-Concern Level 2 (Moderate concern roads and trails) – Middleground (1/2 to 4 miles)	Low-Moderate
<b>Future Land Use Resources</b>	
Residential Planned – Plat Approved	Moderate-High
Residential Planned – Zoning Approved	Moderate
Residential Planned – Conceptual/General/Comprehensive Plan	Low-Moderate
Commercial Planned – Plat Approved	Low-Moderate
Commercial Planned – Conceptual/General/Comprehensive Plan	Low
Mixed Use – Conceptual/General/Comprehensive Plan	Low-Moderate
Military – Plat Approved	Moderate
Industrial Facilities – Plat Approved	Low
Industrial Facilities – Conceptual/General/Comprehensive Plan	Low
<b>Future Recreation Resources</b>	
Parks – Plat Approved	Moderate-High
Parks – Conceptual/General/Comprehensive Plan	Low-Moderate
National/Regional Trails – Plat Approved	Moderate-High
Local Trails (County or City designated) – Conceptual/General/Comprehensive Plan	Low

<b>Existing Cultural Resources</b>	
Listed or Eligible National or State Register Properties	Moderate-High
<b>Existing Biological Resources</b>	
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- Biological Core Management Areas	Low-Moderate
- Important Riparian Areas	Low-Moderate
- Multiple Use Management Areas	Low
- Designated Scientific Research Areas	Low-Moderate

<b>Opportunities</b>
<b>Existing Linear Facilities</b>
Roads/Major Arterial Roadways
Railroads
Utility Facilities (substations, etc.)
Section lines, half-section lines
46kV Overhead Transmission Line Corridors
115kV/138kV Overhead Transmission Line Corridors
230kV/345kV Overhead Transmission Line Corridors
<b>Future (Planned) Linear Facilities</b>
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Notes: Sensitivity level modification may occur after evaluation of edge condition (e.g., residential areas adjacent to major arterial roads and 46kV and above power lines).

\*The agencies/public provided comments and suggestions to add or revise the resource category and/or sensitivity levels in February and March 2009 resulting in the final criteria

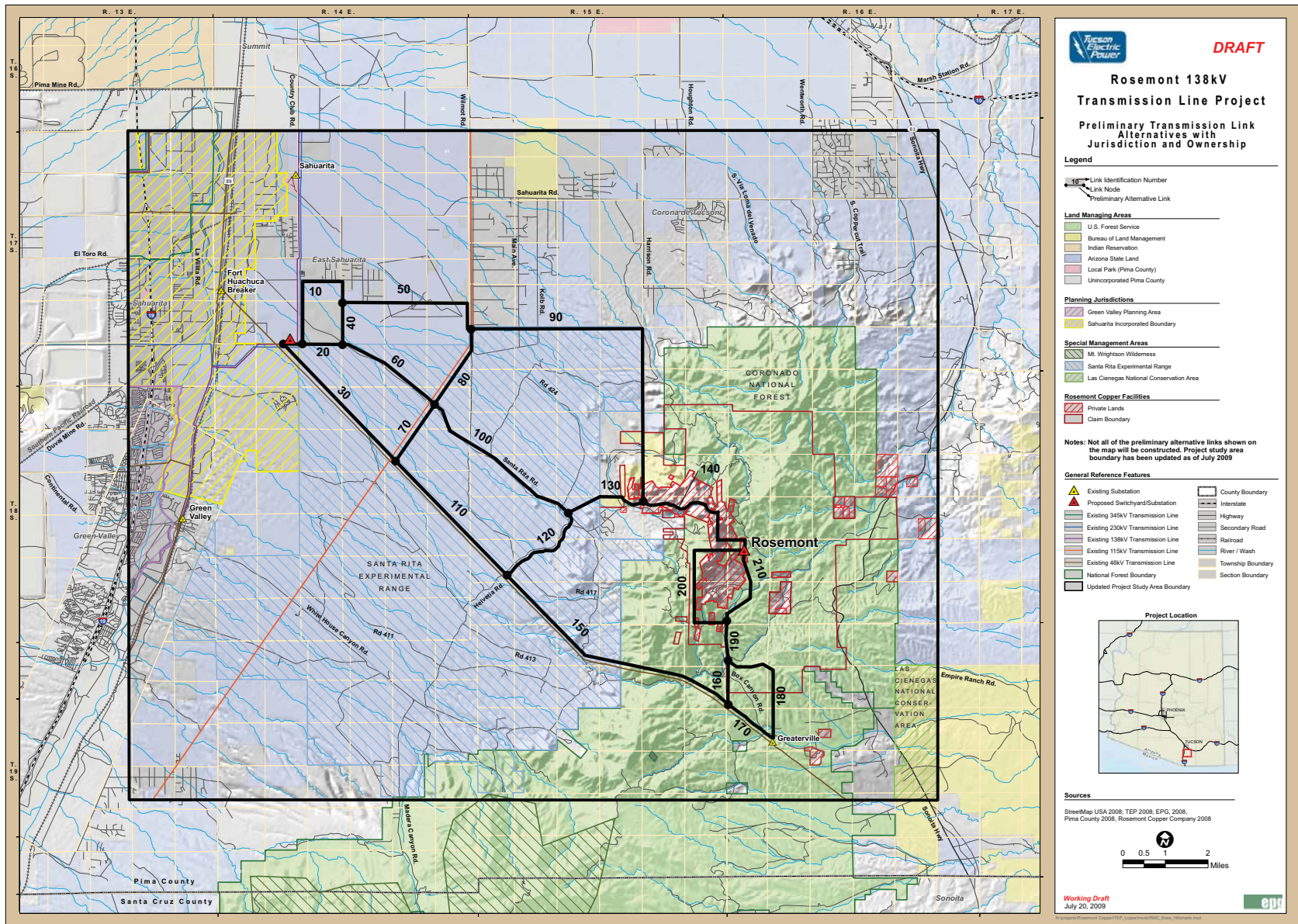


**WE ARE HERE**

\*Timeline is estimated  
July 2009

## Planning Process and Responsibilities Rosemont 138kV Transmission Line Project

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## **Rosemont 138kV Transmission Line Project**

### **Agenda – Stakeholder Group Meeting #3**

December 10, 2009, 11:00am – 2:00pm  
Unisource building, 2<sup>nd</sup> Floor Conference Room  
One South Church Street  
Tucson, Arizona 85702

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- Welcome
- Project Status
- Public and Agency Comments
- Environmental Impact Assessment Methodology
- Alternative Routes
- Next Steps
- Comments and Questions

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# ROSEMONT 138KV TRANSMISSION LINE PROJECT

## Presentation Stakeholder Group Meeting #3 December 10, 2009

December 10, 2009

## Agenda

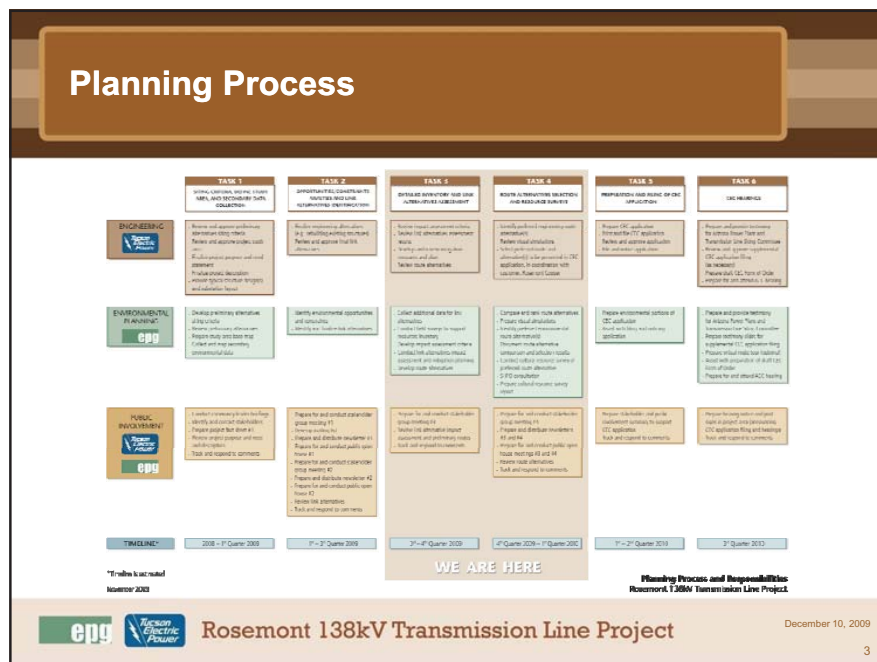
- Welcome
- Project Status
- Public and Agency Comments
- Environmental Impact Assessment Methodology
- Alternative Routes
- Next Steps
- Comments and Questions



Rosemont 138kV Transmission Line Project

December 10, 2009

2



## Public Comments Received

- Comments from residents near Corona de Tucson, Quail Creek, Sahuarita, and Sonoita communities, among others
- Alternative links along existing 46kV line, north side of the Santa Rita Experimental Range, and Santa Rita Road preferred by some to minimize visual concerns and potential impacts to property values
- Reduce potential impacts to the Box Canyon area located in Coronado National Forest
- Minimize visual impacts of open views toward the Santa Rita Mountains
- Alternative substation location at intersection of Helvetia Road and existing 46kV line suggested as alternative for bringing construction power from Greaterville Switchyard/Substation

**Rosemont 138kV Transmission Line Project**

**December 10, 2009**

**4**

## Agency Comments Received

- Santa Rita Experimental Range/Arizona State Land Department
  - Prefer transmission line alternative located along north side of Santa Rita Road to alternatives along northern range boundary and 46kV alignment
  - Prefer to co-locate linear utilities (proposed water pipeline and 138kV transmission line) along Santa Rita Road
- Town of Sahuarita
  - Prefers existing 46kV transmission line corridor to co-locate with existing infrastructure
  - Concerned with potential perceived visual impacts to residents from proposed western switchyard/substation
- Coronado National Forest
  - Prefers to minimize length of transmission line route crossing Coronado National Forest
  - Suggests potential mitigation measures to minimize visual impacts along Forest Service Concern Level travelways



Rosemont 138kV Transmission Line Project

December 10, 2009

5

## Other Comments

- Colonia – Sahuarita Heights/East Sahuarita
- Public meeting format – include presentation and Q&A session
- Pole finish
- Community briefings



Rosemont 138kV Transmission Line Project

December 10, 2009

6

## Detailed Inventory and Assessment

- Identified another interconnection alternative for construction power
- Conducting an environmental resource assessment for all alternative links
- Conducting a preliminary engineering analysis to ensure viability of alternative links, while considering electrical system planning, construction, and cost factors



Rosemont 138kV Transmission Line Project

December 10, 2009

7

## Environmental Studies

### Resource Data Collected

#### *Land use*

- Existing and future land use
- Jurisdictional planning guidelines

#### *Visual and Recreation*

- Scenic quality
- Sensitive viewers
- Scenic management guidelines
- Roads/trails and trailheads

#### *Cultural*

- Class I records review
- National Register or State Historic Districts or sites

#### *Biological*

- Wildlife and habitat
- Vegetation
- Special status species



Rosemont 138kV Transmission Line Project

December 10, 2009

8

## Resource Impacts

### Land use impacts

- Existing land use
- Future land use

### Visual resource impacts

- Landscape scenic quality
- Sensitive viewers (residences, roads/trails, trailheads)
- Scenic management guidelines

### Cultural resource impacts

- Known historic properties considered
  - Eligible
  - Ineligible
  - Not evaluated

### Biological resource impacts

- Biological conservation areas
- Vegetation
- Wildlife



Rosemont 138kV Transmission Line Project

December 10, 2009

9

## Access Levels – Definitions

Access (Construction and Operation) Levels and Ground Disturbance Defined		
Access Level	Disturbance Definition	Typical Crossing Conditions
Level 1	<ul style="list-style-type: none"> <li>• Areas where disturbance to existing landform, vegetation, and development would be lowest.</li> <li>• No new disturbance areas include existing access roads and pre-disturbed locations that do not require improvement (vegetation removal or grading).</li> <li>• New improvements limited to overland drive and crush from existing disturbed locations. Vegetation is crushed but not cropped and no surface soil is disturbed.</li> </ul>	<ul style="list-style-type: none"> <li>• Developed lands parallel to established paved or unpaved roads (e.g., residential, commercial, industrial, mixed use).</li> <li>• Transmission line and pipeline with established paved or unpaved roads (improvements not needed).</li> <li>• Highway, roadway, railroad, canal or other linear facilities.</li> <li>• Developed or undeveloped lands with existing roads.</li> <li>• Developed or undeveloped lands with slopes not exceeding 5%.</li> </ul>
Level 2	<ul style="list-style-type: none"> <li>• Areas where disturbance to existing landform, vegetation, and development would be moderate.</li> <li>• New improvements limited to clearing and cutting of all vegetation in order to provide suitable access for construction equipment and vehicles. Vegetation is cropped and removed but no surface soil is disturbed.</li> </ul>	<ul style="list-style-type: none"> <li>• Developed or Undeveloped/desert lands with existing unimproved roads (Off-highway vehicle routes requiring improvement).</li> <li>• Developed lands without existing linear corridors (e.g., roadways, greenways, utility easements).</li> <li>• Transmission line and pipeline with established paved or unpaved roads (improvements needed).</li> <li>• Developed or undeveloped lands with slopes not exceeding 5%.</li> </ul>
Level 3	<ul style="list-style-type: none"> <li>• Areas where disturbance to existing landform, vegetation, and development would be highest.</li> <li>• New improvements that require vegetation to be cleared and cut with removal of soil or grading disturbance. Vegetation and soil would be disturbed.</li> </ul>	<ul style="list-style-type: none"> <li>• Undeveloped/desert lands without existing roads (may create additional trespass to areas).</li> <li>• Developed or undeveloped lands with slopes exceeding 5-10%.</li> </ul>



Rosemont 138kV Transmission Line Project

December 10, 2009

10

## Impact Assessment Criteria

- Impact Criteria Table



Rosemont 138kV Transmission Line Project

December 10, 2009

11

## Study Area Photos

- Various photos of the study area



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December 10, 2009

12



## Alternative Route Identification

- Alternative links presented in July/August 2009 were combined to form transmission line route families based on:
  - Project construction power needs
  - Project operation power needs
  - Minimizing environmental impacts
  - Public and agency input
- Three route families combining construction and operation power
  - North routes
  - Santa Rita Road routes
  - Adjacent 46kV line routes



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December 10, 2009

13

## Switchyard/Substation Sites Analyzed

- Construction power sources
  - Expansion of existing Greaterville Switchyard/Substation
  - Temporary interconnection generally at the intersection of the existing 46kV transmission line and Helvetia Road
- Operation power switchyard/substation sites
  - Proposed switchyard/substation
  - Rosemont Substation



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December 10, 2009

14

## Summary of Alternative Routes

- Satisfies power needed for construction and operation of the Rosemont facilities
  - Alternative route families identified to meet construction and operation needs
- Common to all alternative routes
  - Serve future customer demand for electricity for Rosemont operations
  - Meets electrical system planning and engineering requirements



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December 10, 2009

15

## Construction and Operation Alternatives – Maps

- Construction and operation alternatives – maps



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December 10, 2009

16

## Alternative Route Families (combining construction and operation) – Maps

- Alternative route families - maps



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December 10, 2009

17

## Preliminary Environmental Alternative Evaluation Table – Example

- Example – Preliminary Environmental Alternative Evaluation Table



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December 10, 2009

18

## Preliminary Alternative Comparison Summary Table – Example

- Example – Preliminary Alternative Comparison Summary Table



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December 10, 2009

19

## Alternative Route Evaluation

- Alternative routes will be compared following public and agency review
- Comparison and selection criteria will include:
  - Environmental compatibility
  - Electrical system planning requirements and timeframes
  - Engineering
    - Constructability
    - Cost
    - Right-of-way
  - Public and agency support
  - Regulatory permits
- One or more alternative transmission line routes may be carried forward in the application for a Certificate of Environmental Compatibility (CEC) to be submitted to the Arizona Corporation Commission



Rosemont 138kV Transmission Line Project

December 10, 2009

20

## Next Steps

- Continue evaluation of alternative routes
- Project newsletter #3
- Stakeholder meeting #4 (1<sup>st</sup> quarter 2010)
- Public open house meeting #3 (1<sup>st</sup> quarter 2010)
- Compare and identify final transmission line route(s) and construction power source(s) (1<sup>st</sup>-2<sup>nd</sup> quarter 2010)
- Stakeholder meeting #5 (2<sup>nd</sup> quarter 2010)
- Project newsletter #4 (2<sup>nd</sup> quarter 2010)
- File CEC application (2<sup>nd</sup> quarter 2010)



Rosemont 138kV Transmission Line Project

December 10, 2009

21

## Comments and Questions

Comments or questions?

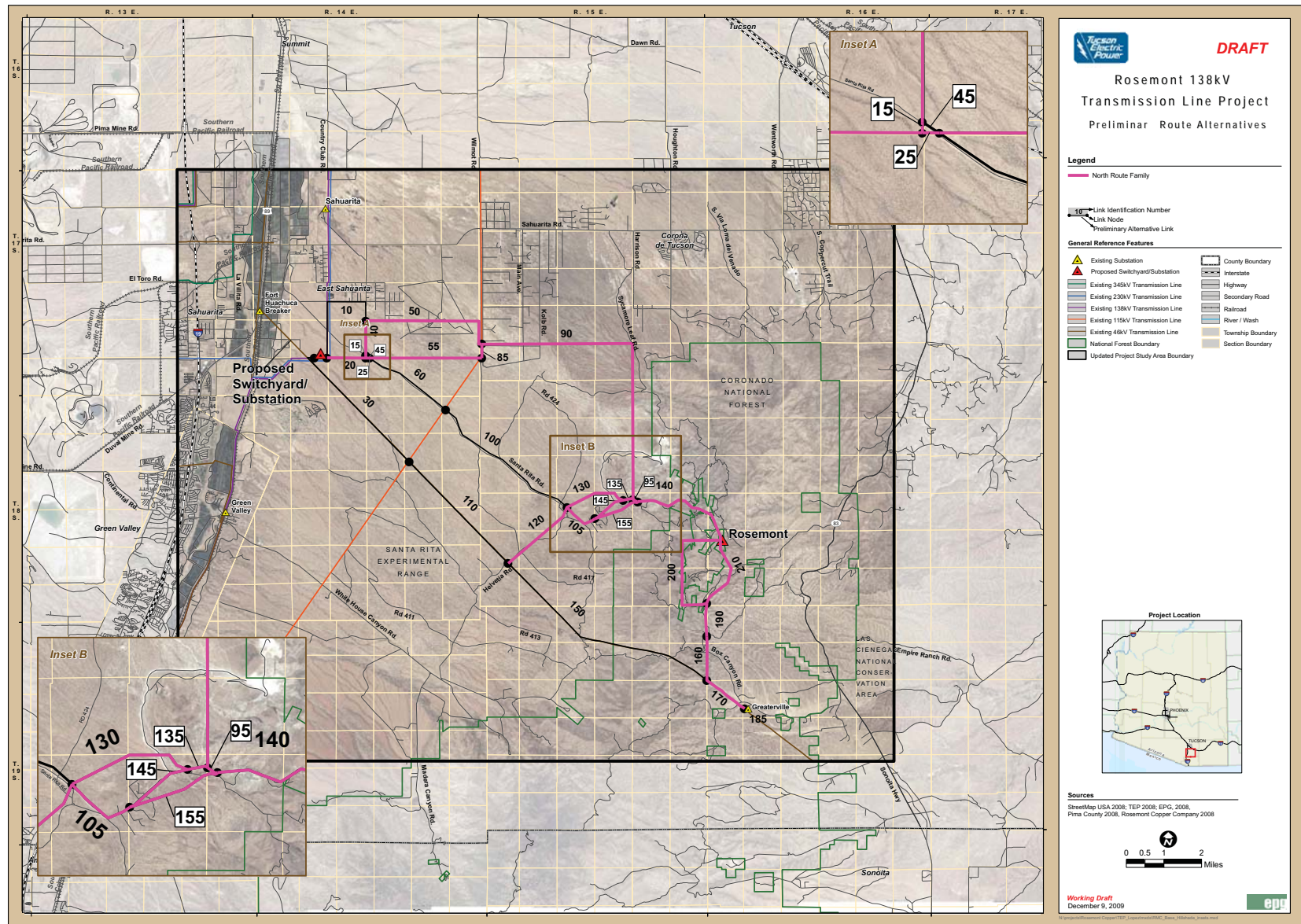


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December 10, 2009

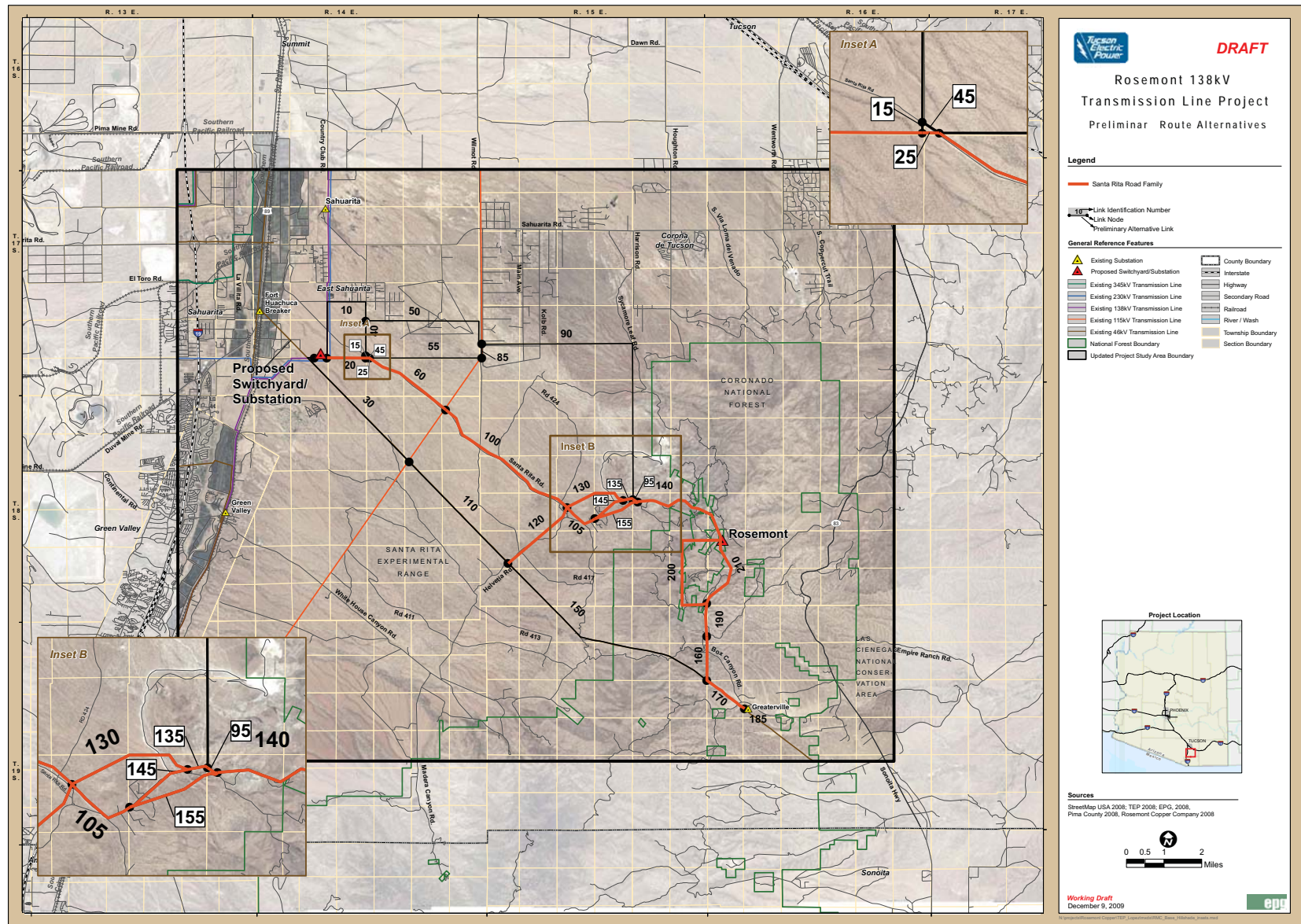
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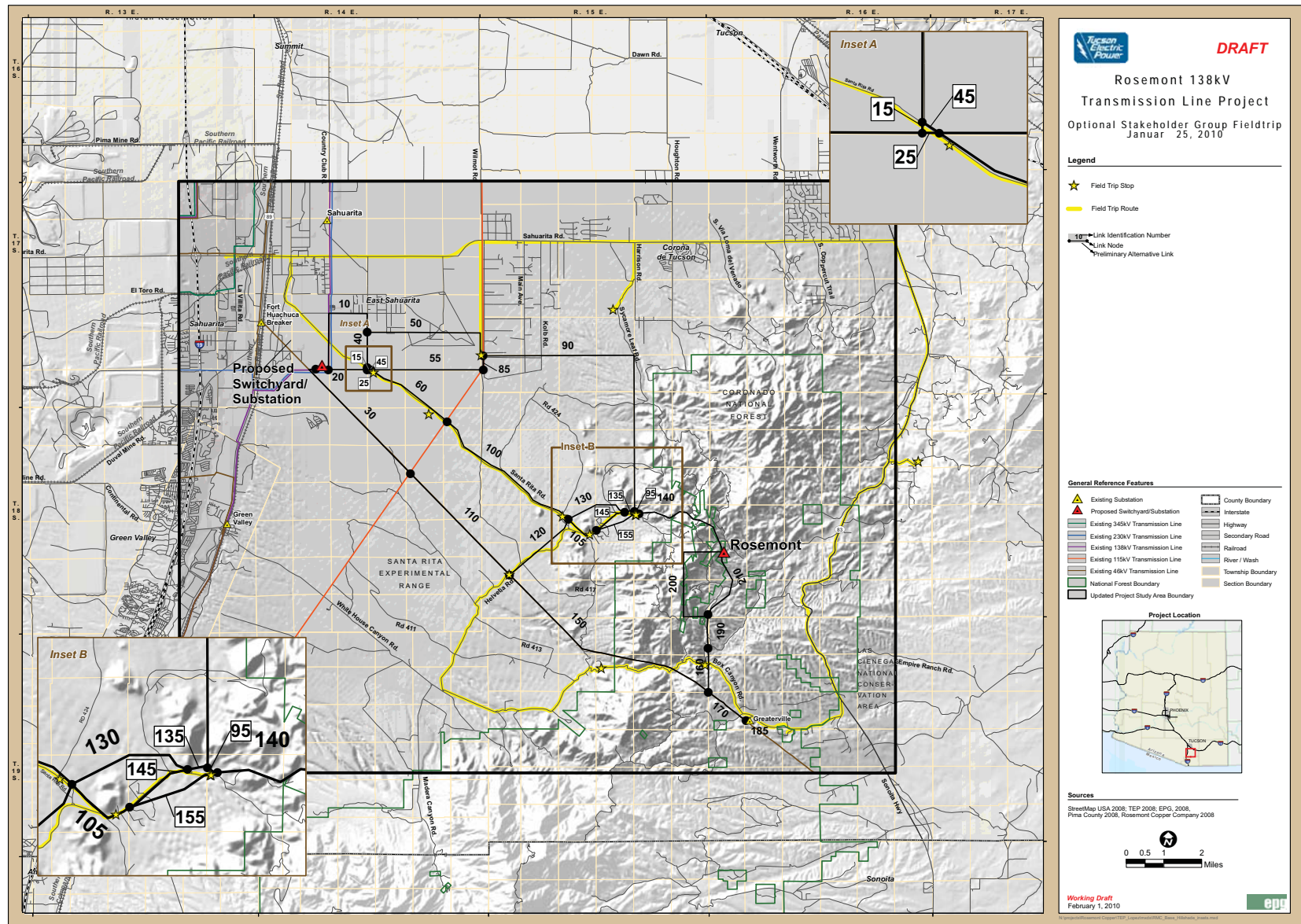


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## **Rosemont 138kV Transmission Line Project**

### **Agenda – Stakeholder Group Meeting #4**

March 5, 2010 11:00am – 2:00pm

Unisource building, board room

One South Church Street

Tucson, Arizona 85702

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- Welcome
- Project Status
- Impact Assessment
- Alternative Route Evaluation
- Alternative Routes
- Next Steps
- Comments and Questions

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# ROSEMONT 138KV TRANSMISSION LINE PROJECT

## **Presentation** Stakeholder Group Meeting #4 March 5, 2010

March 5, 2010

## **Agenda**

- Welcome
- Project Status
- Impact Assessment
- Alternative Route Evaluation
- Alternative Routes
- Next Steps
- Comments and Questions



Rosemont 138kV Transmission Line Project

March 5, 2010

2

## Public Comments Received

- Comments from residents near Corona de Tucson, Quail Creek, Sahuarita, and Sonoita communities, among others
- Alternative links along existing 46kV line, north side of the Santa Rita Experimental Range, and Santa Rita Road preferred by some to minimize visual concerns and potential impacts to property values
- Reduce potential impacts to the Box Canyon area located in Coronado National Forest
- Minimize visual impacts of open views toward the Santa Rita Mountains
- Alternative substation location at intersection of Helvetia Road and existing 46kV line suggested as alternative for bringing construction power from Greaterville Switchyard/Substation



Rosemont 138kV Transmission Line Project

March 5, 2010

3

## Agency/Stakeholder Group Comments Received

- Santa Rita Experimental Range/Arizona State Land Department
  - Prefer transmission line alternative located along north side of Santa Rita Road to alternatives along northern range boundary and 46kV alignment
  - Prefer to co-locate linear utilities (proposed water pipeline and 138kV transmission line) along Santa Rita Road
  - Does not support Link 120
- Town of Sahuarita
  - Prefers existing 46kV transmission line corridor to co-locate with existing infrastructure
  - Concerned with potential perceived visual impacts to residents from proposed western switchyard/substation
- Coronado National Forest
  - Prefers to minimize length of transmission line route crossing Coronado National Forest
  - Suggests potential mitigation measures to minimize visual impacts along Forest Service Concern Level travelways



Rosemont 138kV Transmission Line Project

March 5, 2010

4

## Public Involvement Summary

- Agency briefings
- Stakeholder group meetings
- Field trip
- Public open houses
- Community briefings
- Newsletters
- Telephone information line
- Website (TEP)



Rosemont 138kV Transmission Line Project

March 5, 2010

5

## Field trip



Rosemont 138kV Transmission Line Project

March 5, 2010

6

## Revised Alternative Links

- Conducted environmental resource assessment for all alternative links
- Removed several preliminary alternative links from detailed impact assessment/alternative route development



Rosemont 138kV Transmission Line Project

March 5, 2010

7

## Impact Assessment Summary

### **Land use impacts**

- Existing land use
- Future land use

### **Visual resource impacts**

- Landscape scenic quality
- Sensitive viewers (residences, roads/trails, trailheads)
- Scenic management guidelines
  - *Santa Rita Road was designated scenic by Pima County February 2010*

### **Cultural resource impacts**

- Known historic properties considered
  - Eligible
  - Ineligible
  - Not evaluated

### **Biological resource impacts**

- Biological conservation areas
- Vegetation
- Wildlife

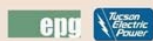
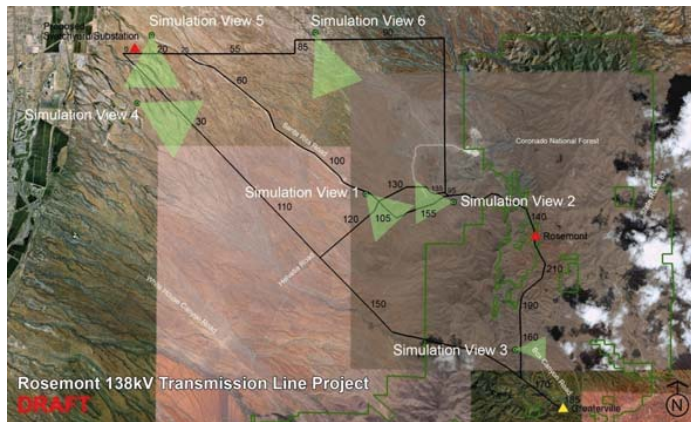


Rosemont 138kV Transmission Line Project

March 5, 2010

8

## Simulations



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March 5, 2010

9

## Alternative Route Family Comparison

- Insert comparison table



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March 5, 2010

10

## Key Considerations for Alternative Routes

- Project construction and operation power needs
  - Three route families combining power needs
- Minimizing environmental impacts
- Electrical system planning requirements and timeframes
- Engineering
  - Constructability
  - Cost
  - Right-of-way
- Public and agency input
- Regulatory permits
- One or more alternative transmission line routes may be carried forward in the application for a Certificate of Environmental Compatibility (CEC) to be submitted to the Arizona Corporation Commission



Rosemont 138kV Transmission Line Project

March 5, 2010

11

## Next Steps

- Publish newsletter #3 – March
- Public open house #4 – April
- Finalize route analysis for CEC application
- File CEC application – Spring, depending upon DEIS publication

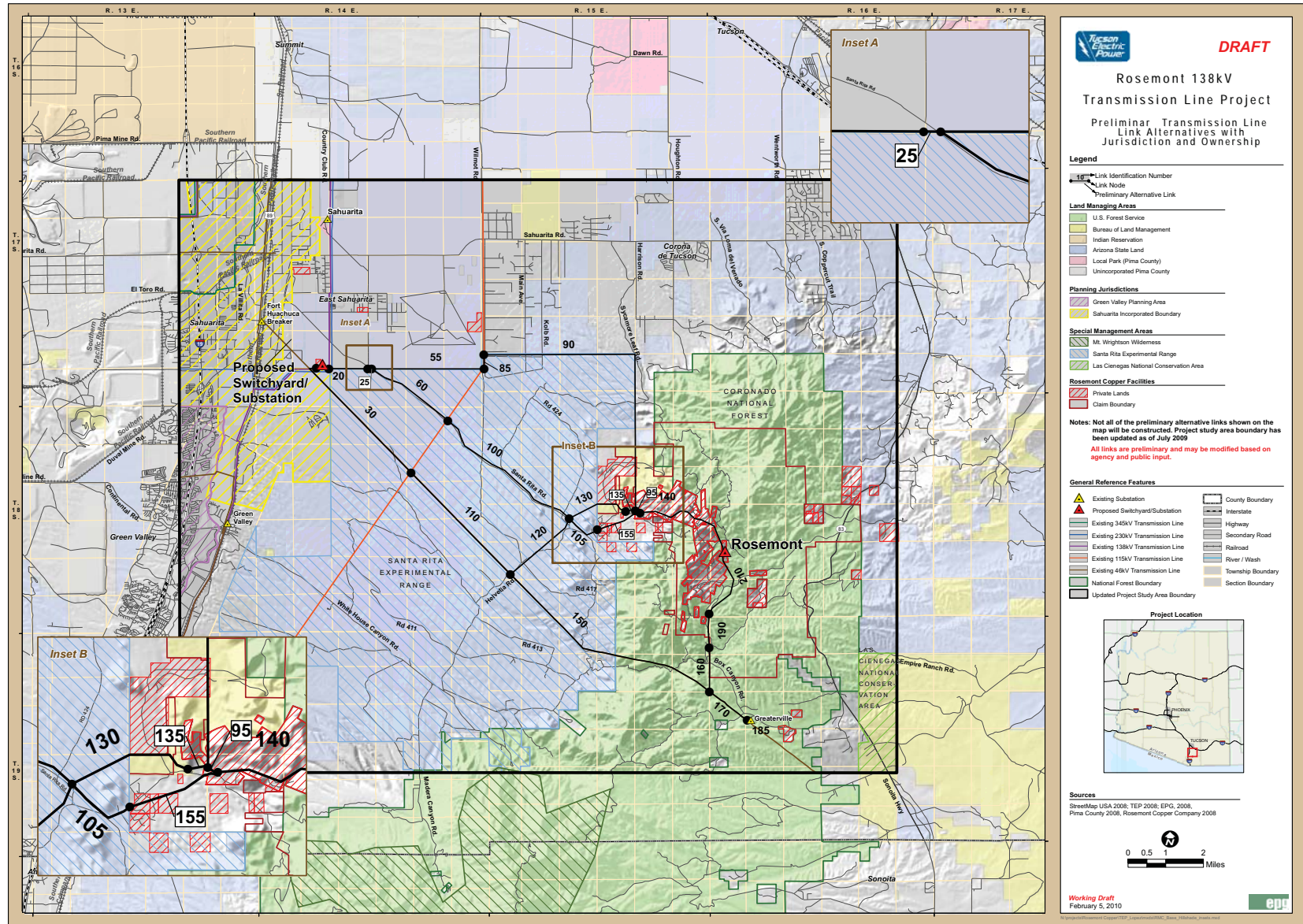


Rosemont 138kV Transmission Line Project

March 5, 2010

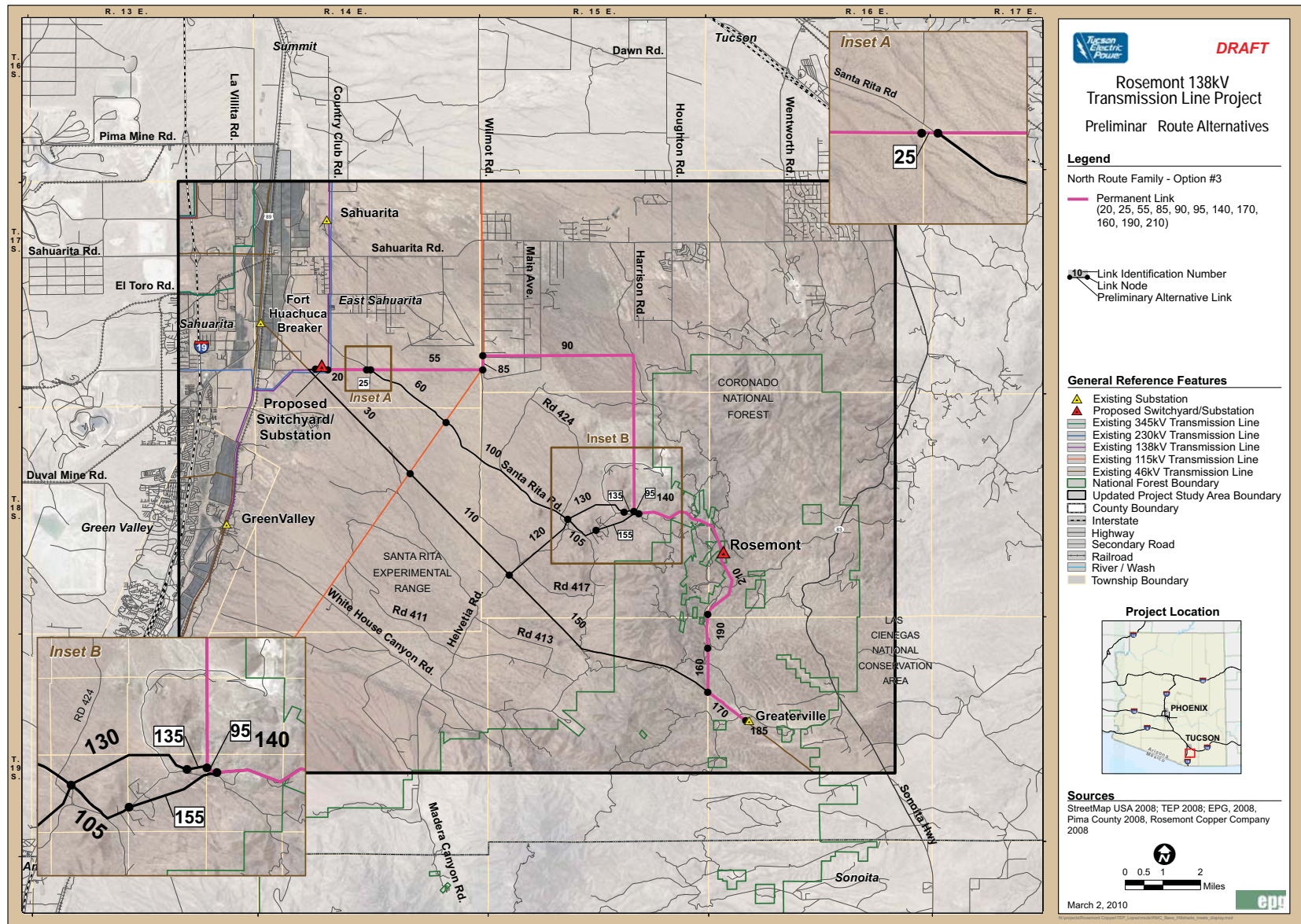
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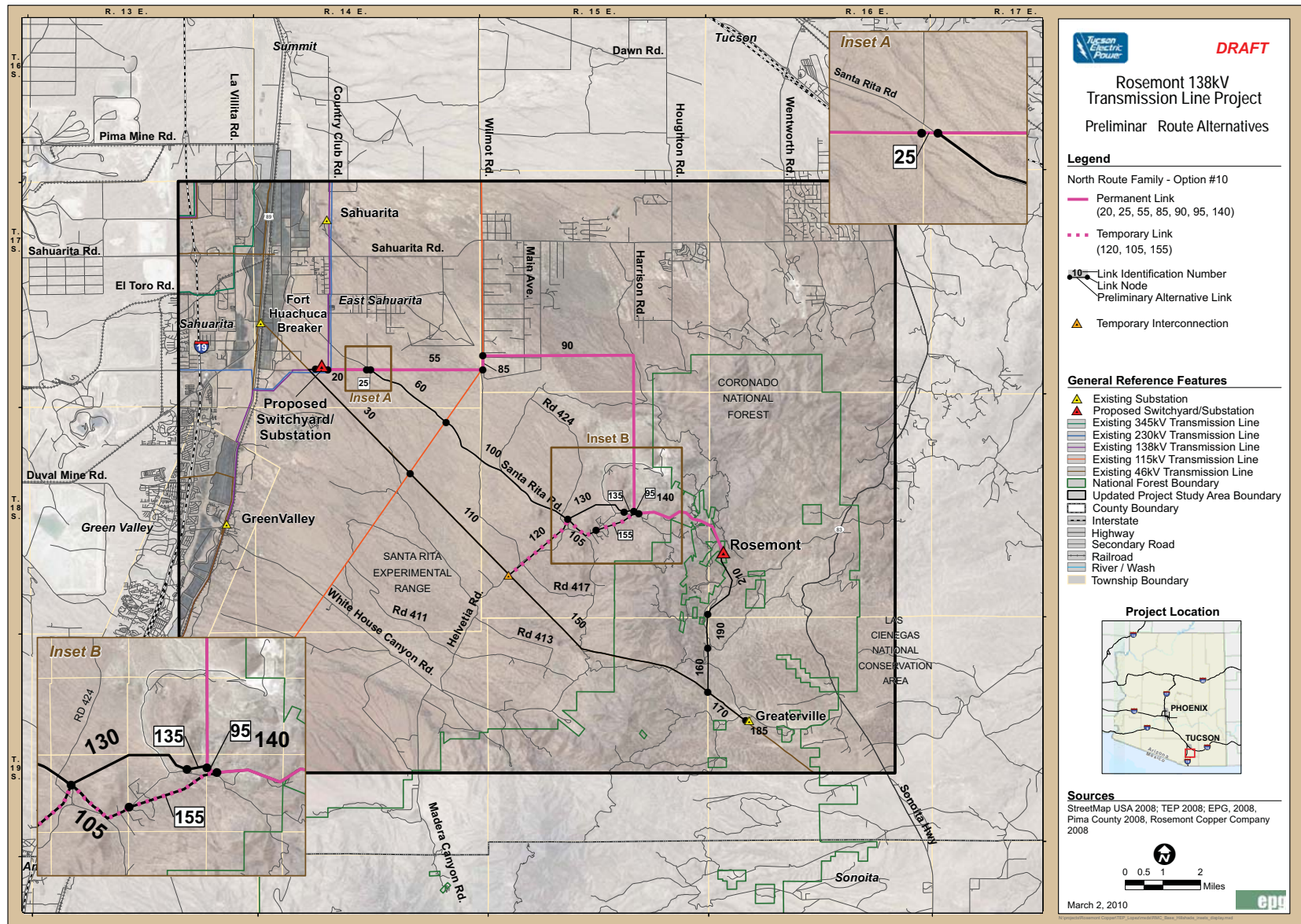


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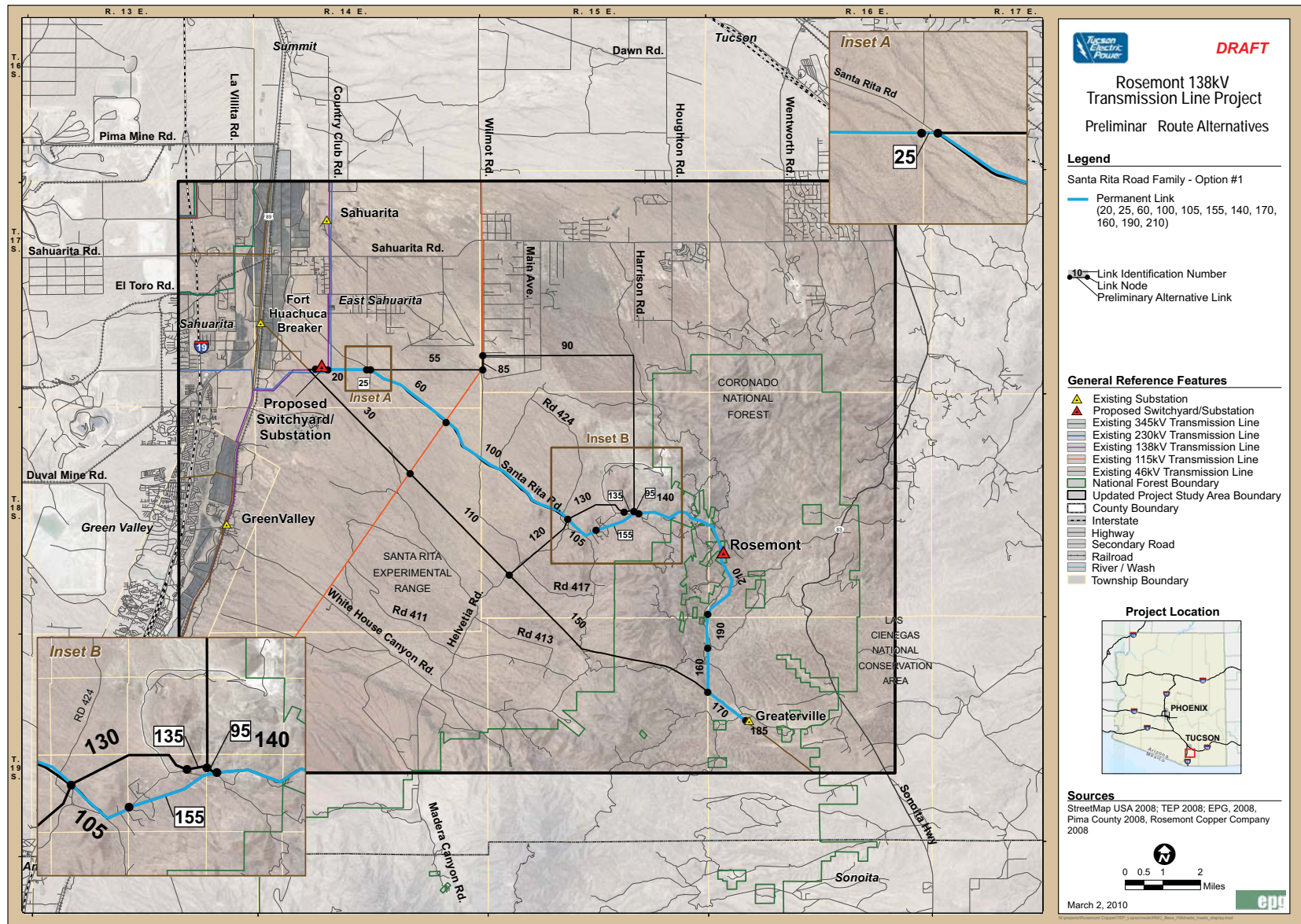


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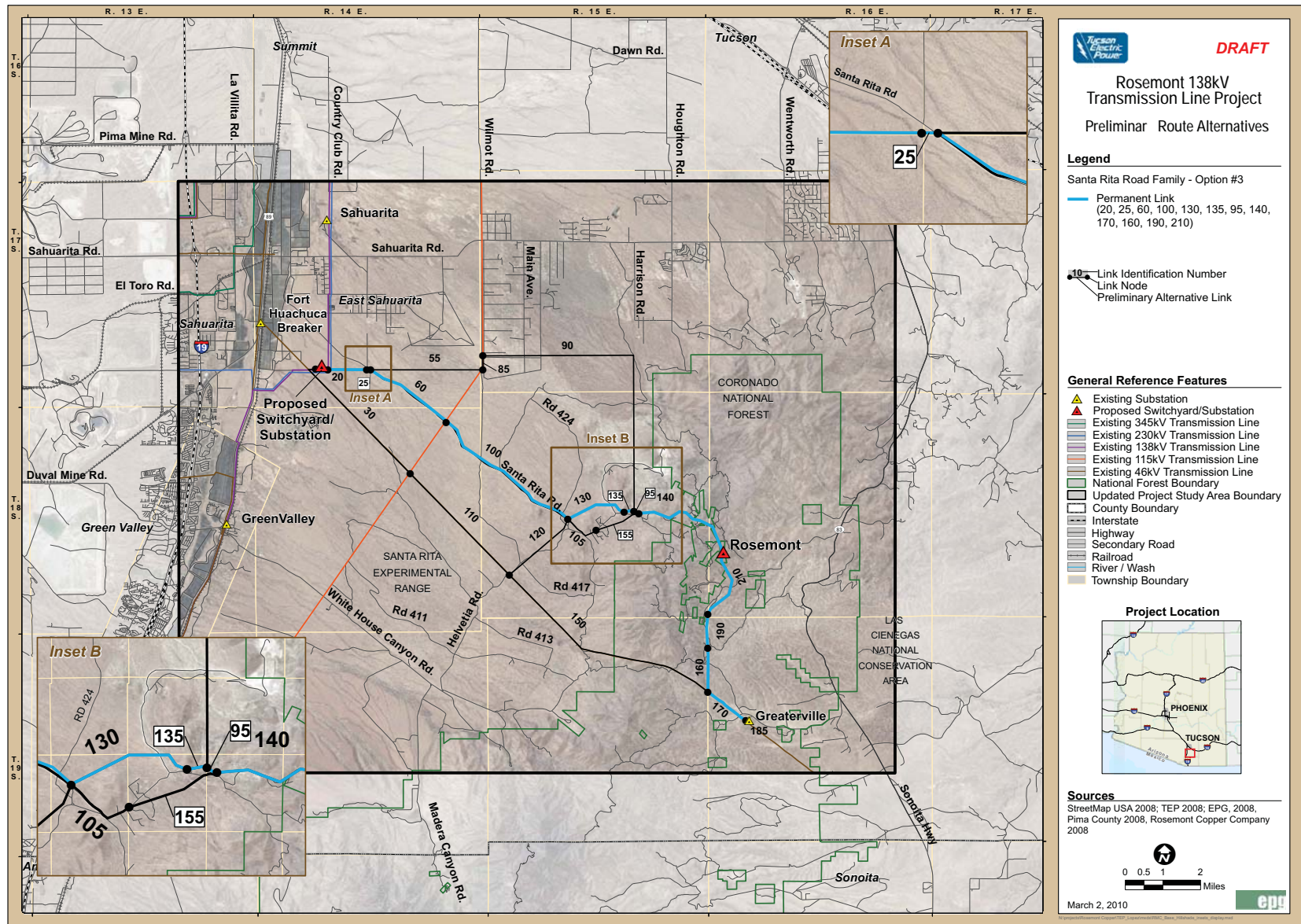


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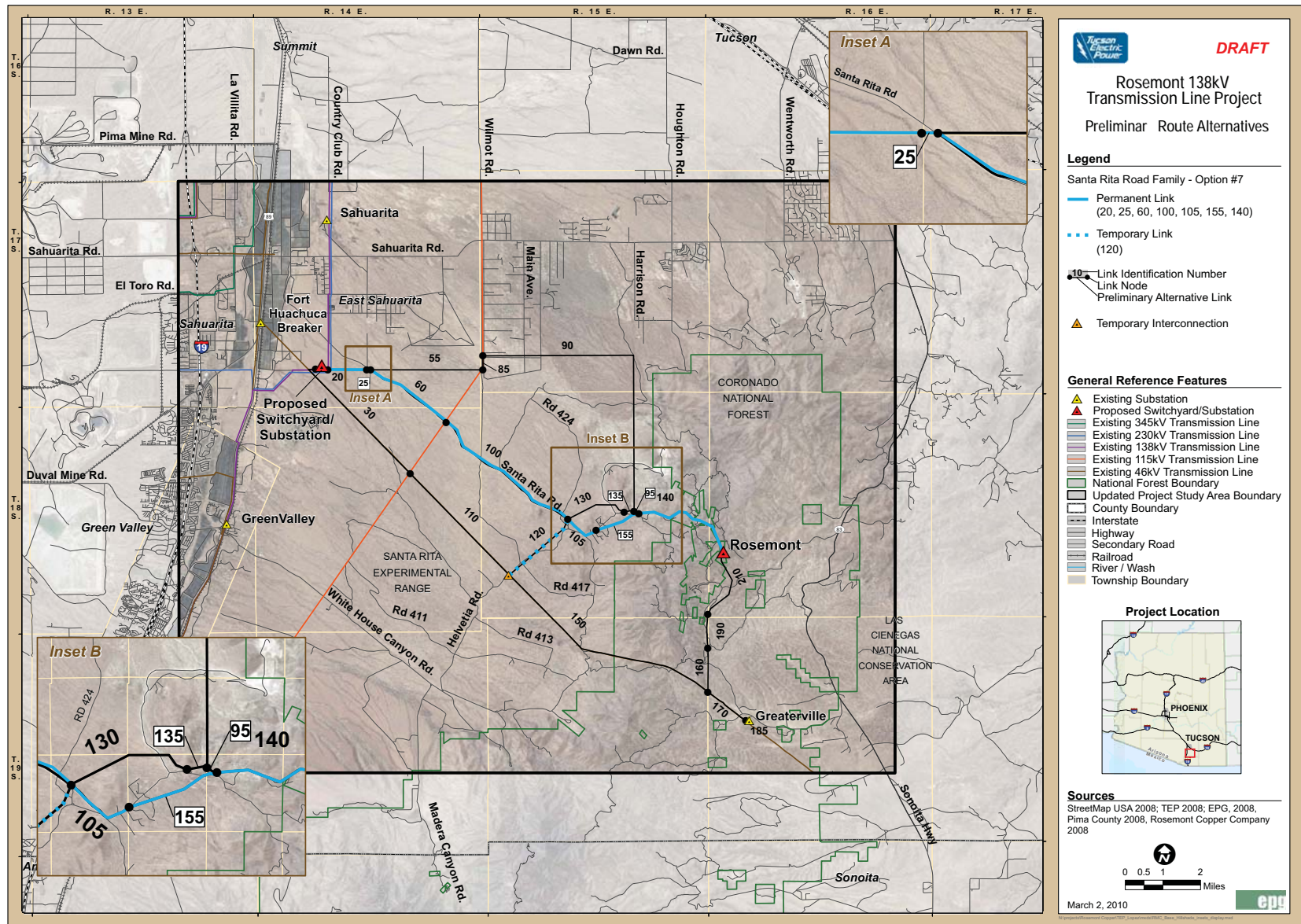


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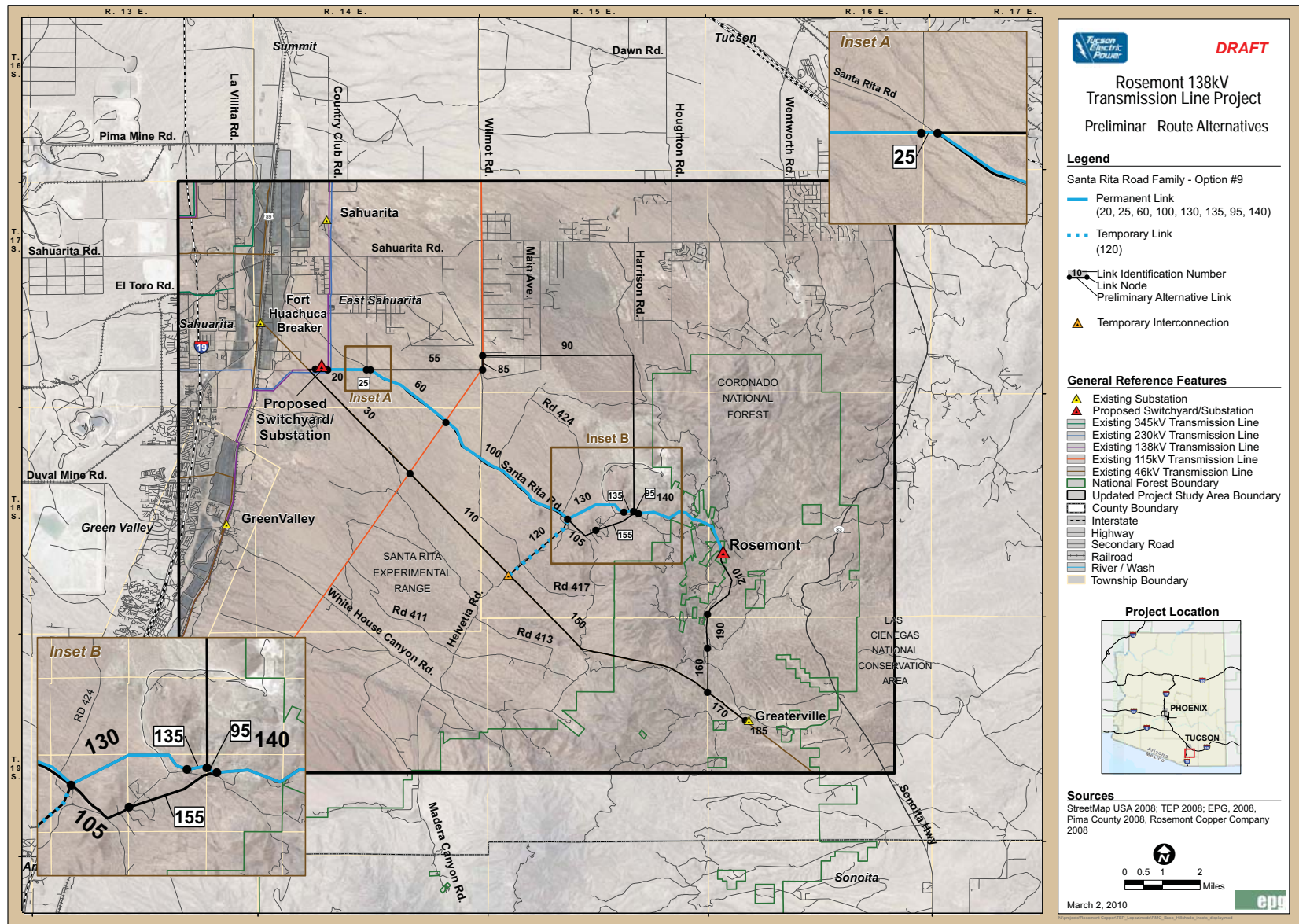


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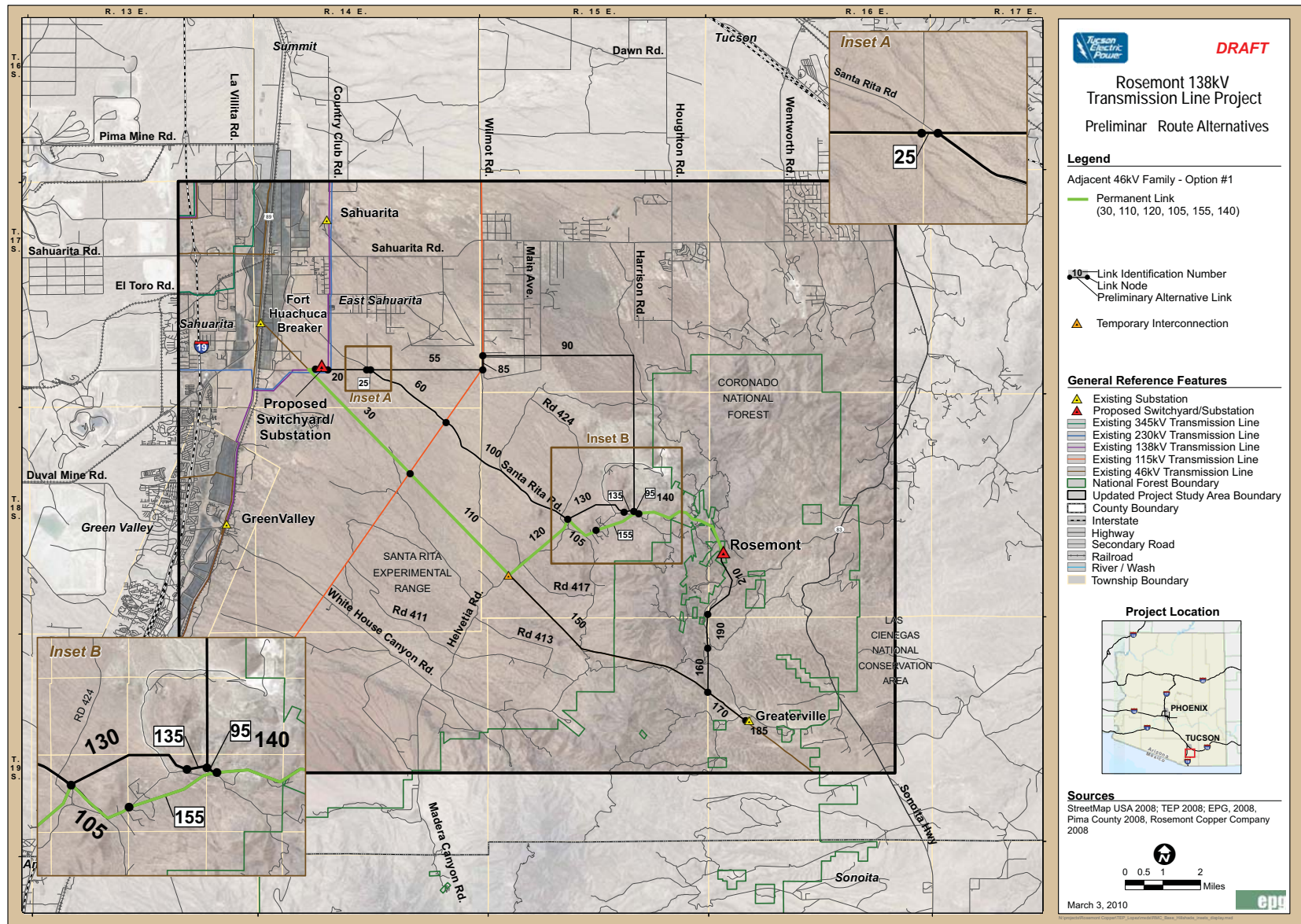


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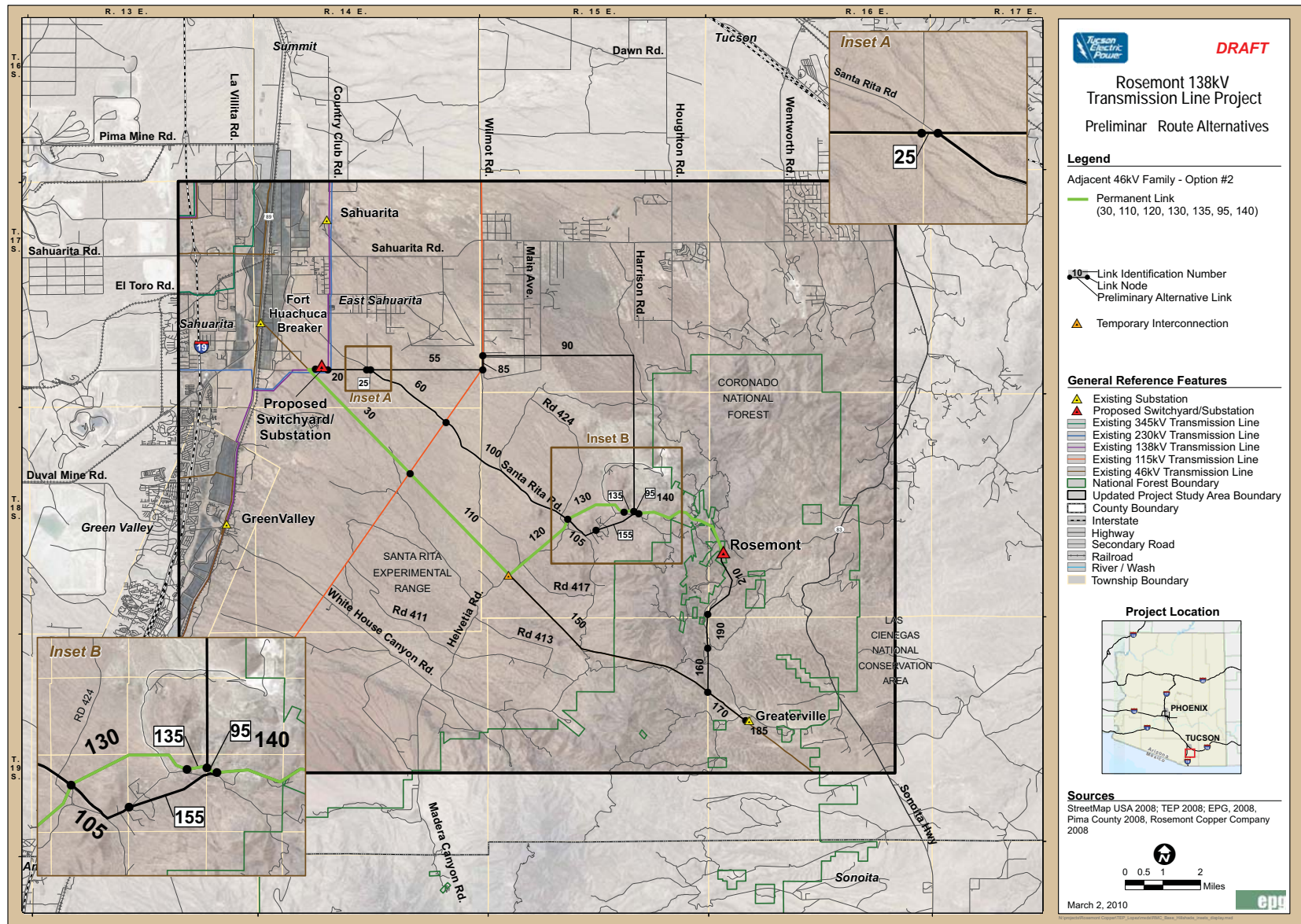


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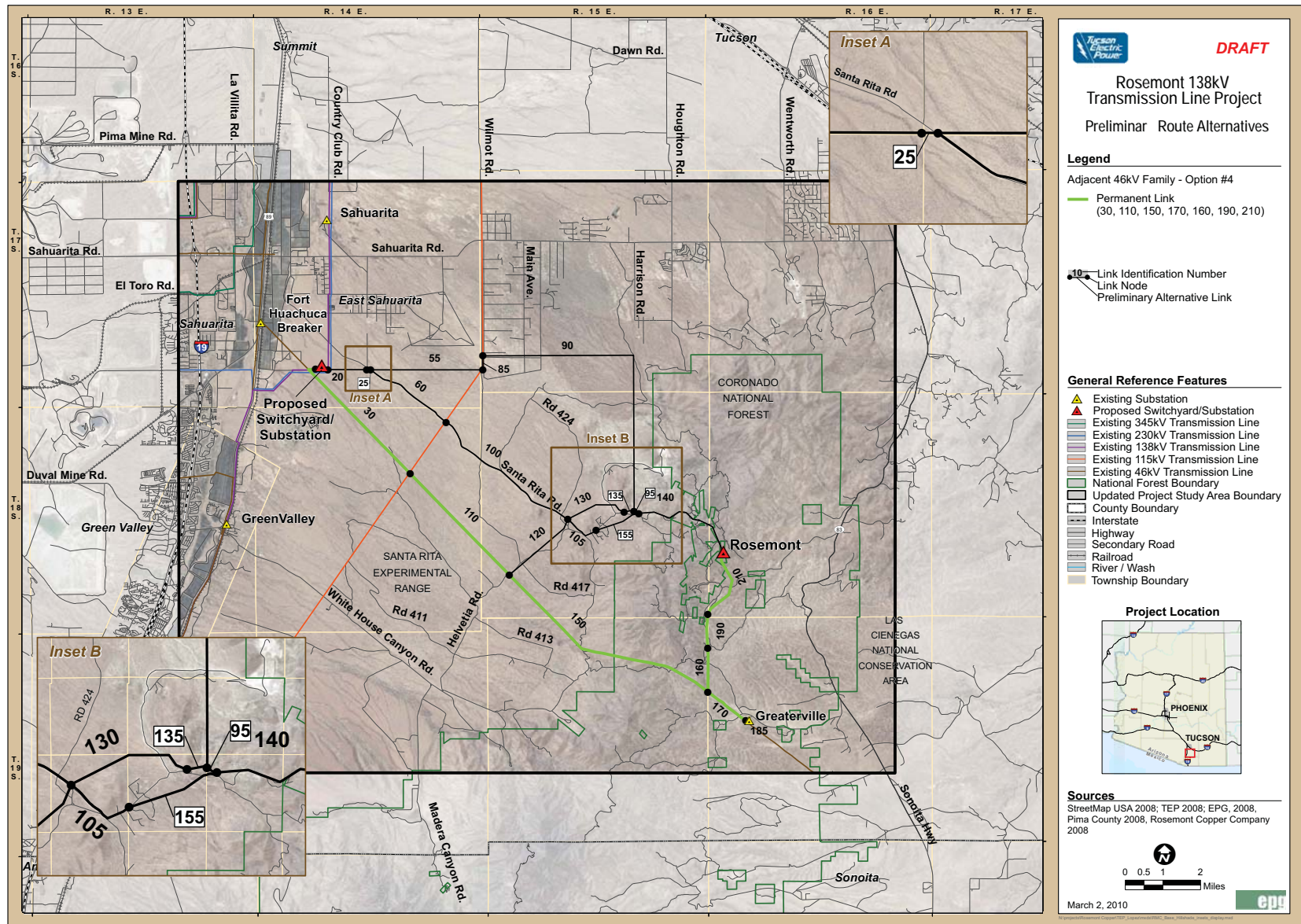


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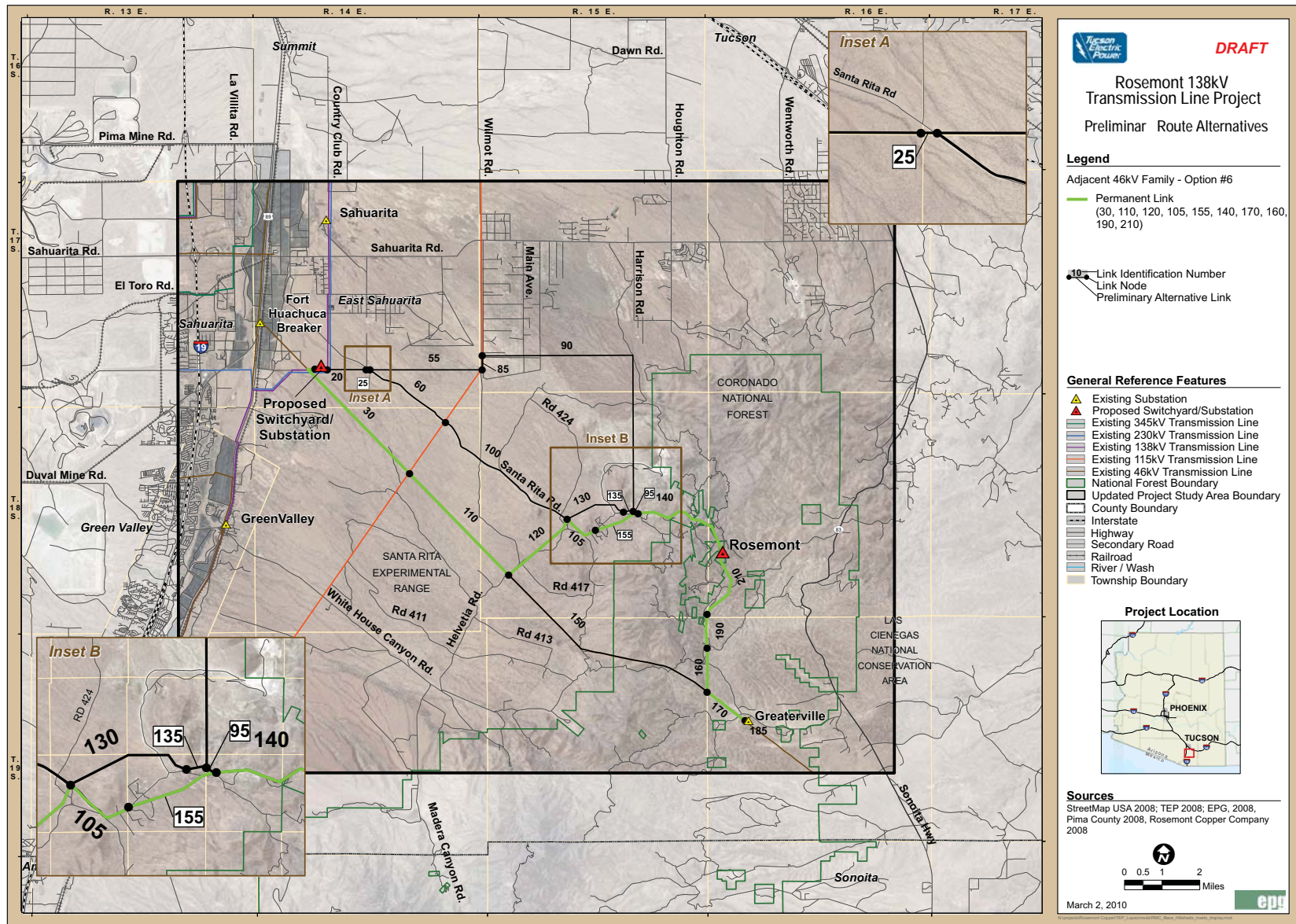


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## **Rosemont 138kV Transmission Line Project**

### **Agenda – Stakeholder Group Meeting #5**

October 27, 2010 11:00am – 2:00pm

Unisource building  
One South Church Street  
Tucson, Arizona 85702

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- Welcome
- Project Status
- Preferred and Alternative Routes likely to be carried forward
- Next Steps
- Comments and Questions

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# ROSEMONT 138KV TRANSMISSION LINE PROJECT

## STAKEHOLDER GROUP

### Revised October 2010

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#### MEMBERSHIP

The purpose of the Stakeholder Group is to establish a group representing a range of opinions in a forum small enough to allow for thorough education of the participants, detailed discussion of issues, and informal dialogue. EPG, Inc. (EPG) contacted various individuals/organizations for selection of the members that would assist Tucson Electric Power (TEP) and EPG in identifying issues and concerns relevant to the proposed project. Representation of a cross-section of the region includes federal, state, county, and municipal agencies that have administrative jurisdiction within the project area; industry/business; and citizens on behalf of their neighborhoods. Members were selected based on their knowledge of the project area, capability to commit the time required to participate in the Stakeholder Group throughout the planning process, and willingness to participate in an impartial manner.

#### ROSTER OF STAKEHOLDER GROUP MEMBERS

##### Federal

- Jim Copeland ([jcopeland@fs.fed.us](mailto:jcopeland@fs.fed.us)), representative for the transmission line on behalf of the Coronado National Forest (replacement for Kent Ellett)
  - Bev Everson ([beverson@fs.fed.us](mailto:beverson@fs.fed.us))
  - Mindee Roth ([mroth@fs.fed.us](mailto:mroth@fs.fed.us))
- Linda Hughes ([Linda\\_hughes@blm.gov](mailto:Linda_hughes@blm.gov)), representative for the transmission line on behalf of the Bureau of Land Management, Tucson
  - Cindy Alvarez ([Cindy\\_alvarez@blm.gov](mailto:Cindy_alvarez@blm.gov))
  - Dan Moore ([Daniel\\_J\\_Moore@blm.gov](mailto:Daniel_J_Moore@blm.gov))
- Kurt Tek ([kurt.tek@ang.af.mil](mailto:kurt.tek@ang.af.mil)), representative for Arizona Air National Guard

##### State

- Tim Bolton ([tbolton@land.az.gov](mailto:tbolton@land.az.gov)), Arizona State Land Department
- Steve Husman ([husman@ag.arizona.edu](mailto:husman@ag.arizona.edu)), Santa Rita Experimental Range

##### City/Town

- Chris Kaselemis ([chris.kaselemis@tucsonaz.gov](mailto:chris.kaselemis@tucsonaz.gov)), City of Tucson
- Orlanthia Henderson ([ohenderson@ci.sahuarita.az.us](mailto:ohenderson@ci.sahuarita.az.us)), Town of Sahuarita
- Eddie Peabody ([emerald5@cox.net](mailto:emerald5@cox.net)), Planning and Zoning Committee, Green Valley Coordinating Council

#### Industry/Business

- Bob Iannarino (biannarino@diamondven.com)/Mark Weinberg (mweinberg@diamondven.com)/Ken Abrahams (kabraams@diamondven.com), Diamond Ventures
- Nan Walden (nswalden@greenvalleypecan.com)/Larry Robertson (tubaclawyer@aol.com), Farmers Investment Company

#### Citizens

- Marshall Magruder (marshall@magruder.org)
- Elizabeth Webb (vailaz@hotmail.com)

### PROJECT TEAM

#### Tucson Electric Power

- Ed Beck (ebeck@tep.com)
- Shannon Breslin (sbreslin@tep.com)
- Cheryl Hall (chall@tep.com)
- Larry Lucero (llucero@tep.com)
- Erik Bakken (ebakken@tep.com)
- Cory Pintor (cpintor@tep.com)

#### EPG, Inc. – Phone (602) 956-4370

- Lauren Weinstein (lweinstein@epgaz.com)
- Paul Trenter (ptrenter@epgaz.com)
- Chelsa Johnson (cjohnson@epgaz.com)

#### Rosemont Copper

- Kathy Arnold (karnold@rosemontcopper.com)
- Laurie Woodall, KR Saline (law@krsaline)

# ROSEMONT 138KV TRANSMISSION LINE PROJECT

## Presentation Stakeholder Group Meeting #5 October 27, 2010

October 27, 2010

## Agenda

- Welcome
- Project Status
- Preferred and Alternative Routes likely to be carried forward
- Next Steps
- Comments and Questions

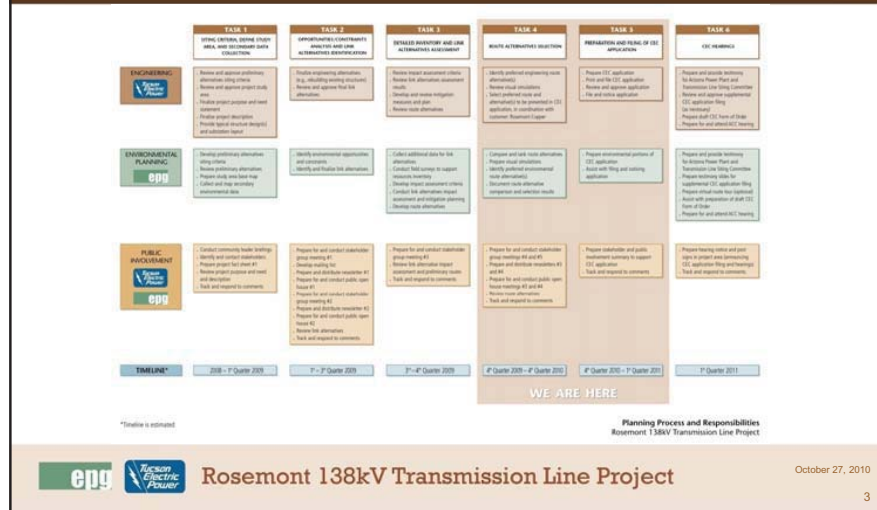


Rosemont 138kV Transmission Line Project

October 27, 2010

2

## Planning Process Chart



## Public Comments Received

- Approximately 435 comment forms, letters, emails, and phone messages received following project newsletter #3 mailing and public open house meetings April 13 and 14, 2010, in Corona de Tucson and Green Valley, respectively
- Comments range from (1) overall lack of support for the project to (2) should wait until the overall Rosemont project is approved to (3) project support
- Concerns with potential impacts to views toward the Santa Rita Mountains across the Santa Rita Experimental Range
- Suggestion of using specific pole colors and finishes; preferences expressed for rust color as well as dulled gray

## Agency Comments Received

- Santa Rita Experimental Range/Arizona State Land Department
  - Prefer transmission line alternative located along north side of Santa Rita Road to alternatives along northern range boundary and 46kV alignment
  - Prefer to co-locate linear utilities (proposed water pipeline and 138kV transmission line) along Santa Rita Road
  - Does not support link 120
- Town of Sahuarita
  - Prefers existing 46kV transmission line corridor to co-locate with existing infrastructure
  - Concerned with potential perceived visual impacts to residents from proposed western switchyard/substation
- Pima County
  - No comments received



Rosemont 138kV Transmission Line Project

October 27, 2010

5

## Additional Agency Comments Received (summer 2010)

- Coronado National Forest
  - Concurs with co-locating proposed utility line with proposed water pipeline to reduce ground disturbance footprint
  - Prefers to minimize length of transmission line route crossing Coronado National Forest. If links 160, 190, and 210 are retained, request link 150 is removed. Place links 160 and 190 to the west in side canyons to reduce visibility
  - Adjacent 46kV route (including Greaterville connection) least preferred for visual impacts



Rosemont 138kV Transmission Line Project

October 27, 2010

6

## Alternative Route Maps

- Route family map (status in spring)
- Transmission line alternatives map (handout)
- Preferred and alternative route maps (handouts)



Rosemont 138kV Transmission Line Project

October 27, 2010

7

## Key Considerations for Alternative Routes

- Project construction and operation power needs
- Minimizing environmental impacts
- Electrical system planning requirements and timeframes
- Engineering
  - Constructability
  - Cost
  - Right-of-way
- Public and agency input
- Regulatory permits
- One or more alternative transmission line routes may be carried forward in the application for a Certificate of Environmental Compatibility (CEC) to be submitted to the Arizona Corporation Commission



Rosemont 138kV Transmission Line Project

October 27, 2010

8

## Preferred Route

- Co-locates with proposed water pipeline
- Santa Rita Experimental Range and AZ State Land preference
- Santa Rita Road designated scenic by Pima County (February 2010)
- Residences near link 155



Rosemont 138kV Transmission Line Project

October 27, 2010

9

## Alternative 1

- Co-locates with proposed water pipeline
- Majority of route supported by Santa Rita Experimental Range and AZ State Land, with the exception of link 130
- Santa Rita Road designated scenic by Pima County (February 2010)
- Link 130, 135: new corridor, no co-location with pipeline, farther from residences



Rosemont 138kV Transmission Line Project

October 27, 2010

10

## Alternative 2

- Co-locates with and replaces 46kV structures to link 120
- Requires new access for a portion of link 120
- Co-locates with proposed water pipeline at Santa Rita Road
- Santa Rita Experimental Range concern for impacts associated with link120, prefers co-location with proposed pipeline
- Residences near link 155



Rosemont 138kV Transmission Line Project

October 27, 2010

11

## Alternative 3

- Co-locates with and replaces 46kV structures to link 120
- Requires new access for a portion of link 120
- Co-locates with proposed water pipeline at Santa Rita Road
- Santa Rita Experimental Range concern for impacts associated with links 120 and 130, prefers co-location with proposed pipeline
- Link 130, 135: new corridor, no co-location with pipeline, farther from residences



Rosemont 138kV Transmission Line Project

October 27, 2010

12



## Alternative 4

- Co-locates with and replaces 46kV structures to Greaterville Substation
- Town of Sahuarita preference
- Coronado National Forest stated least preferred for visual impacts
- Link 150 within Box Canyon area
- New access required for link 160 which crosses Box Canyon Road
- Longest route



Rosemont 138kV Transmission Line Project

October 27, 2010

13

## Next Steps

- Publish newsletter #4 – November
- Public open house #4 – November 17, 2010 at Rancho Resort Clubhouse
- Finalize CEC application
- File CEC application – first quarter 2011, depending upon DEIS publication



Rosemont 138kV Transmission Line Project

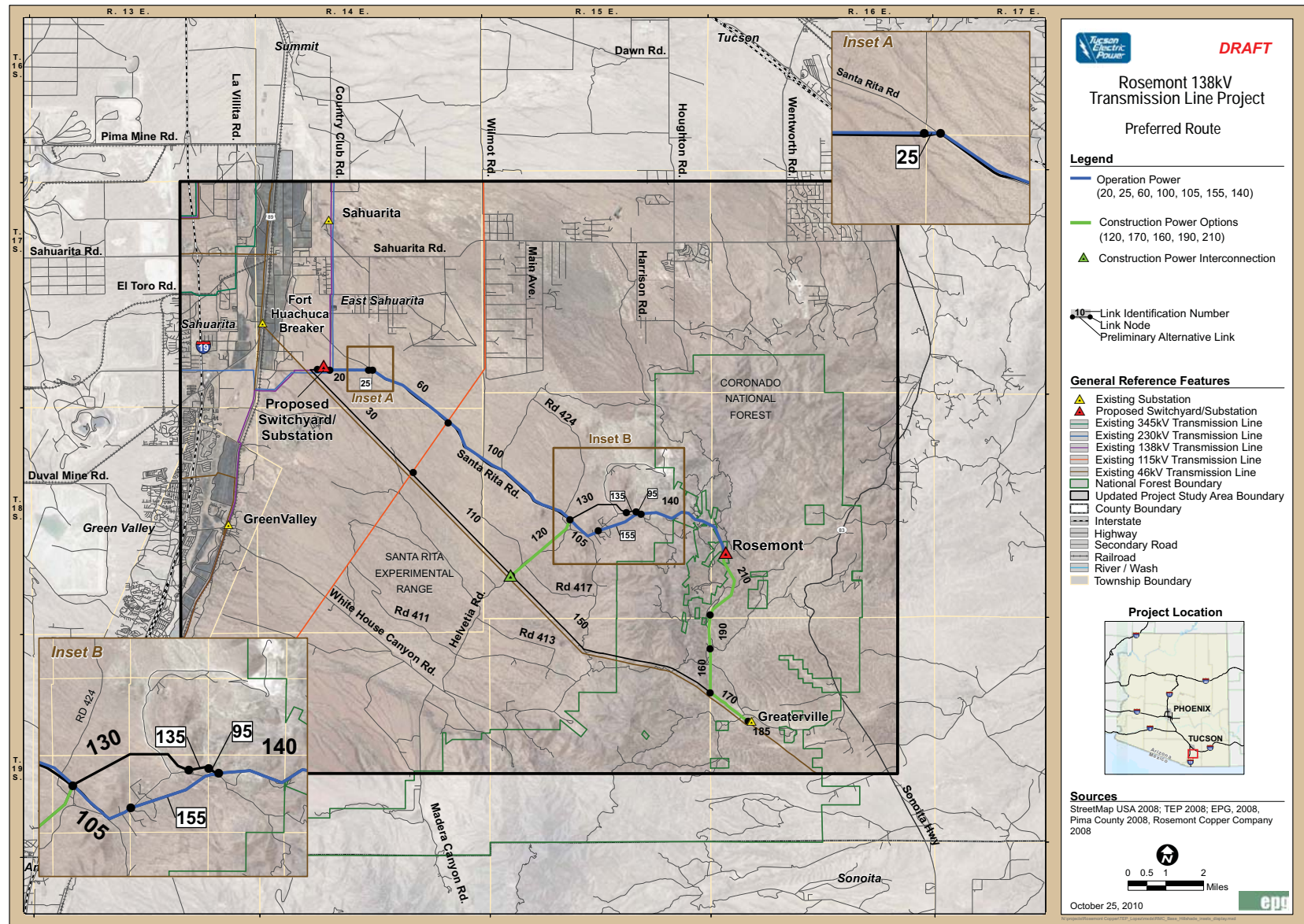
October 27, 2010

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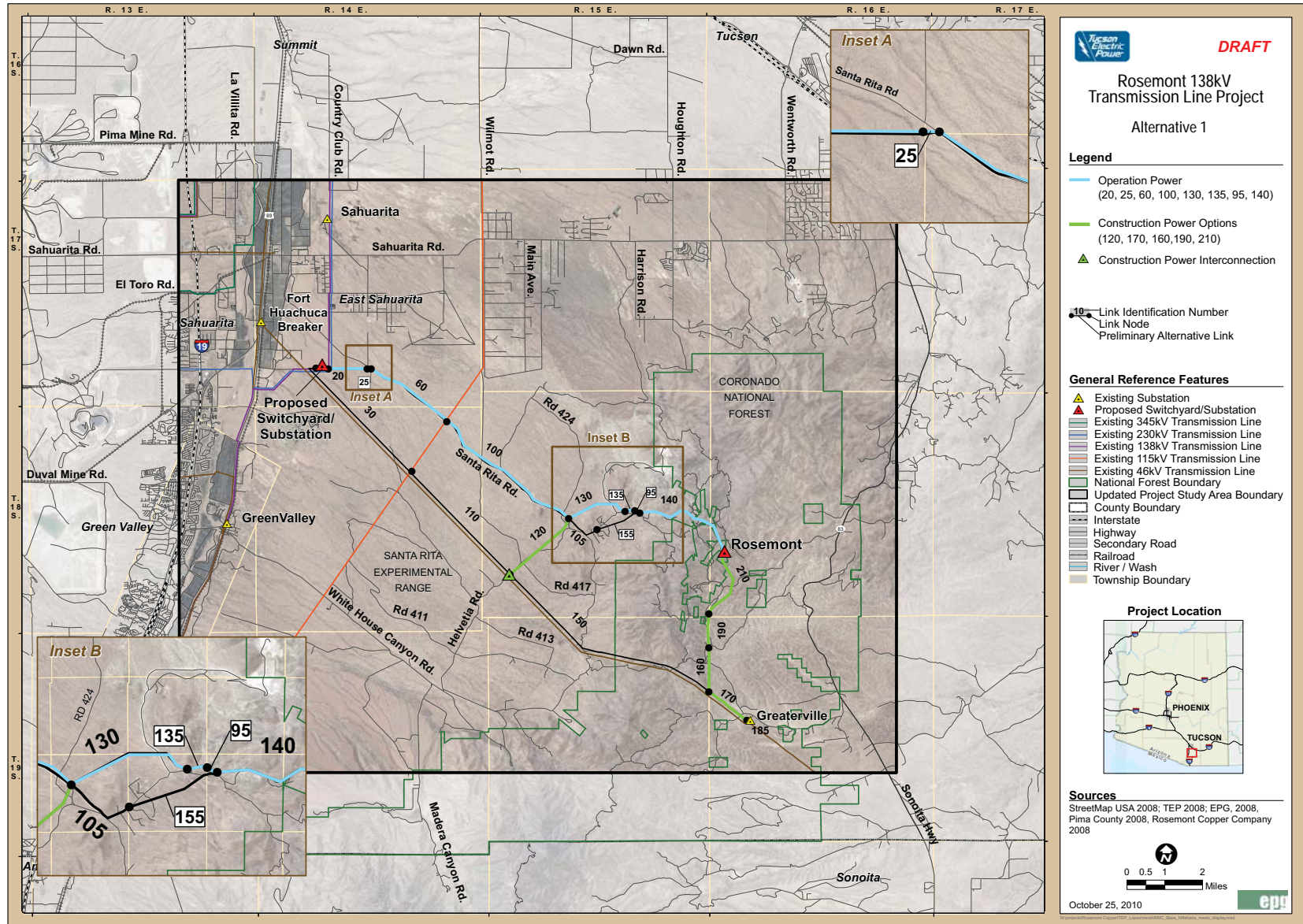


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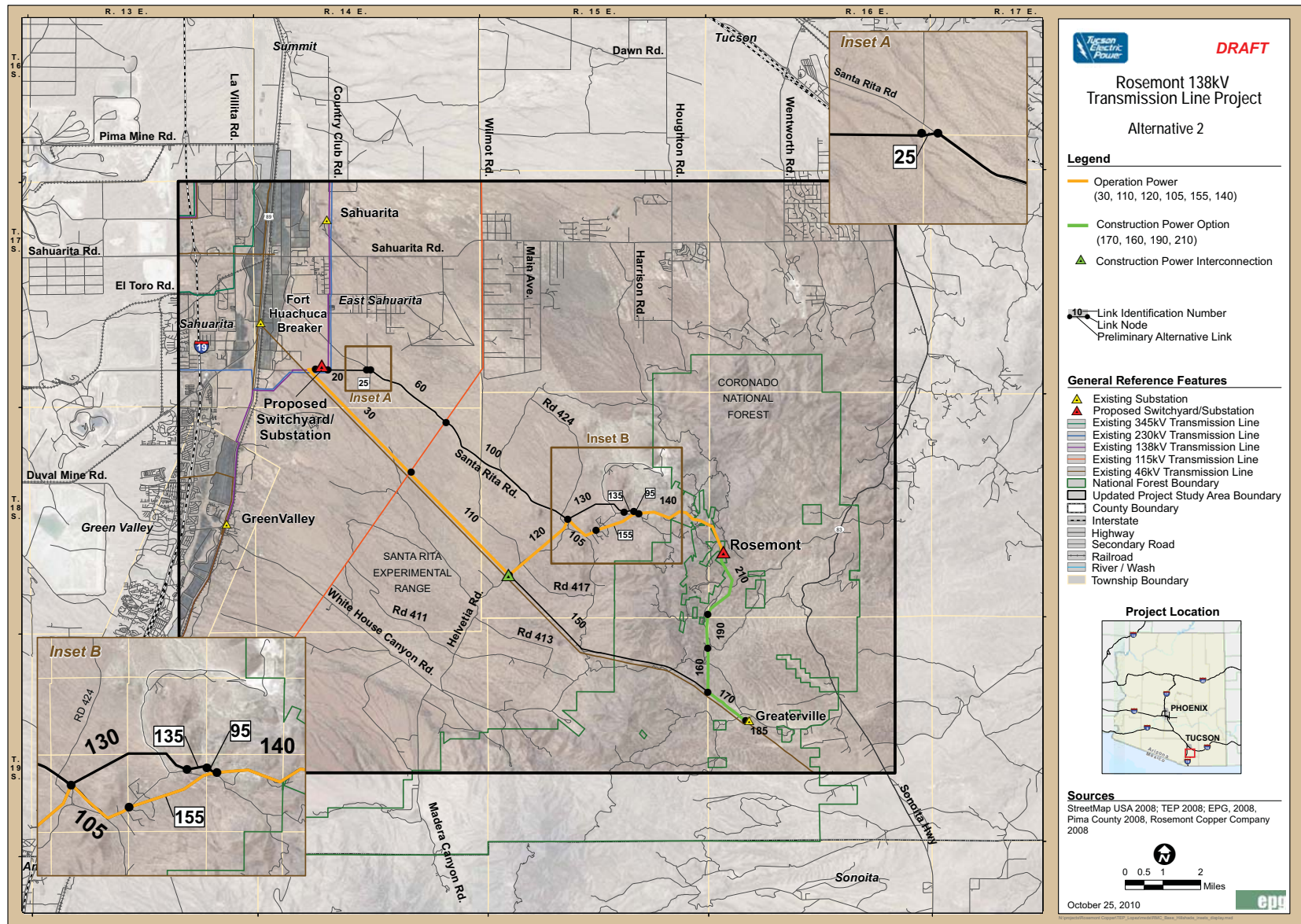
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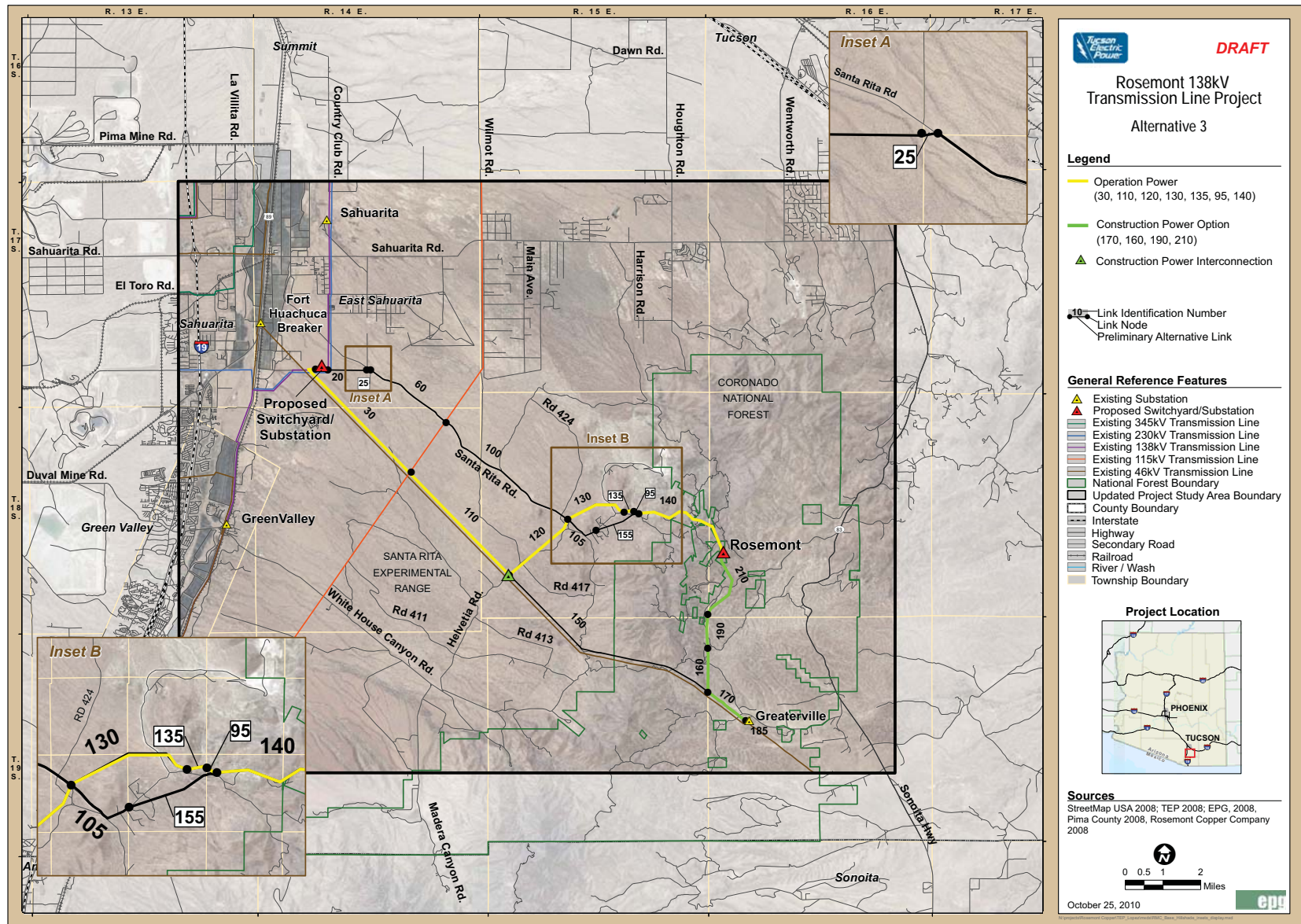


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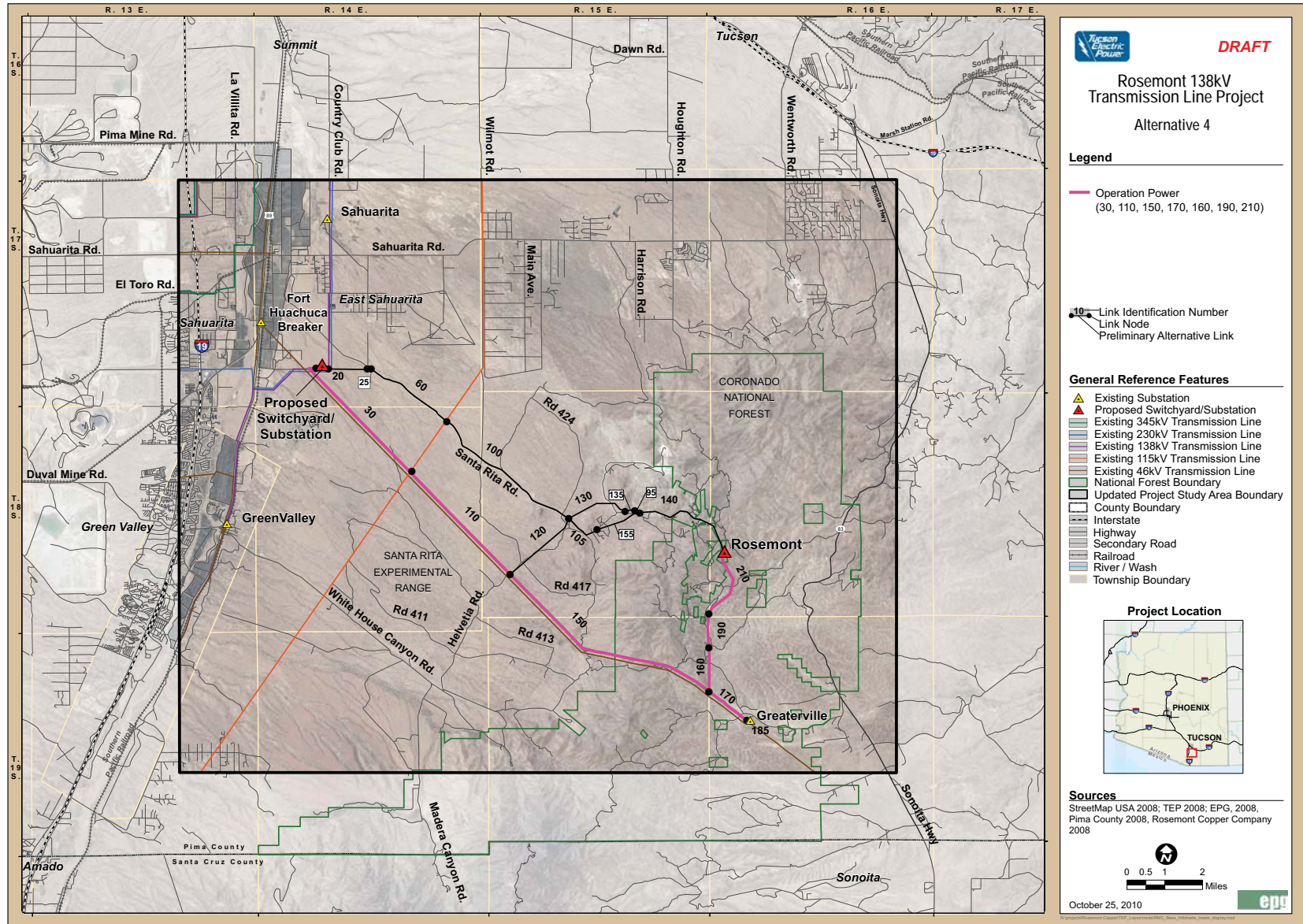


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## **Rosemont 138kV Transmission Line Project**

### **Agenda – Stakeholder Group Meeting #6**

May 12, 2011 11:30am – 1:00pm

Unisource building  
One South Church Street  
Tucson, Arizona 85702

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- Welcome
- Project Status
- Construction Power Options Removed
- Next Steps
- Comments and Questions



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# ROSEMONT 138KV TRANSMISSION LINE PROJECT

**Presentation**  
Stakeholder Group Meeting #6  
May 12, 2011

May 12, 2011

## Agenda

- Welcome
- Project status
- Construction power options removed
- Next steps
- Comments and questions



Rosemont 138kV Transmission Line Project

May 12, 2011

2

## Project Status

- Continuing preparation of CEC application
- Revising project description to remove construction power options
- Informing stakeholder group of project description change



Rosemont 138kV Transmission Line Project

May 12, 2011

3

## Construction Power Options Removed

- Rosemont considered
  - engineering, environmental, public and agency input
  - materials deliveries, engineering timing, and construction timing of permanent line
- Determined a separate construction power line is not needed as part of the overall transmission project to bring power to Rosemont operations site



Rosemont 138kV Transmission Line Project

May 12, 2011

4

## Alternative Routes Map

- Preferred and alternative route map



Rosemont 138kV Transmission Line Project

May 12, 2011

5

## Next Steps

- Review Rosemont Project Draft EIS
- Finalize CEC application
- Publish newsletter #5 announcing public hearings
- File CEC application – 2<sup>nd</sup>/3<sup>rd</sup> quarter 2011, depending upon DEIS publication

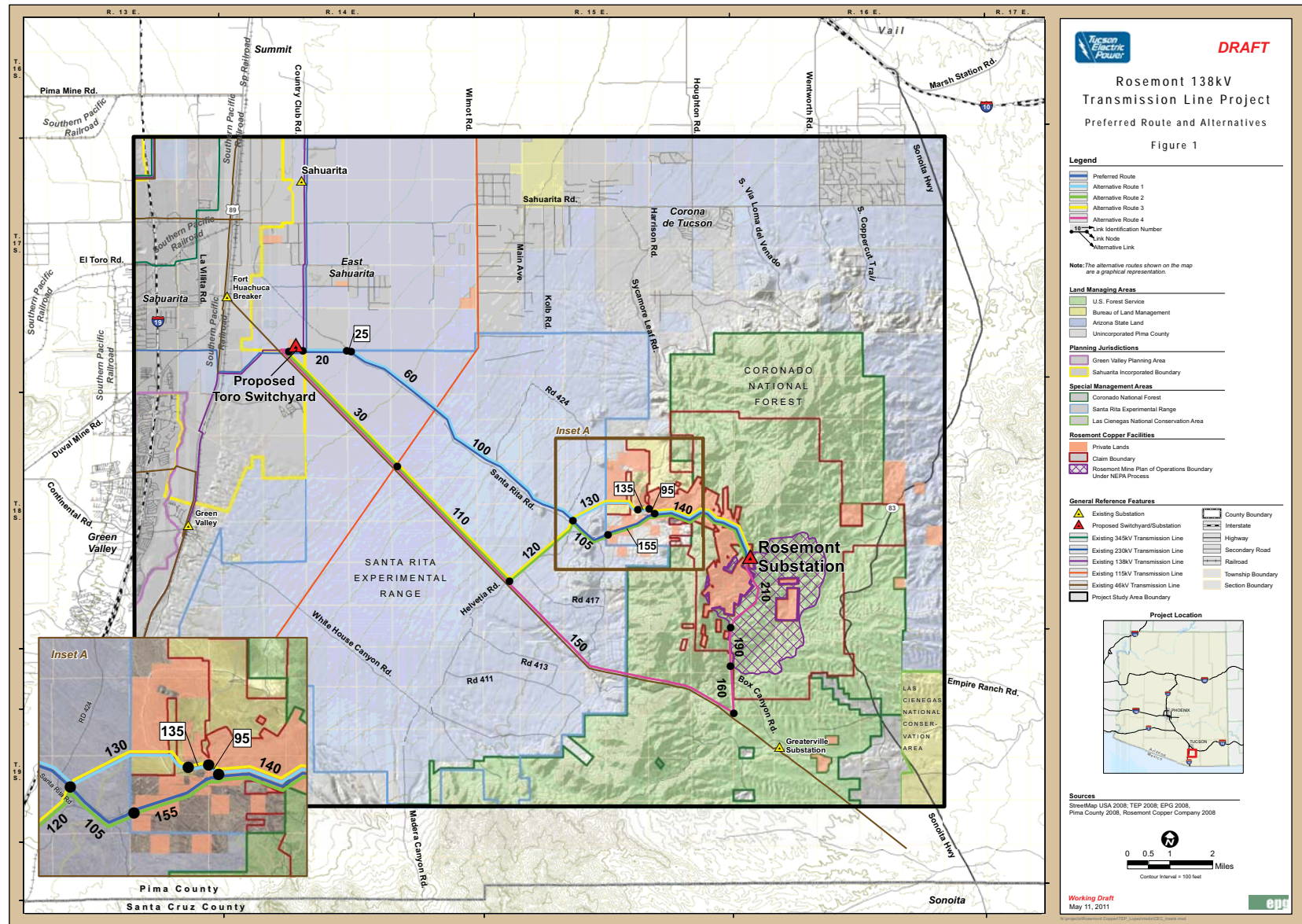


Rosemont 138kV Transmission Line Project

May 12, 2011

6

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