# APS Perryville to Valencia 69kV Powerline Project

## **Open House**

WELCOME! Please Sign In



# Project Overview and Need



## **Project Overview**

- Double-circuit 69kV powerline from the planned West Park Substation, near Apache and Southern Roads, to the existing Watson-Valencia 69kV powerline located along Miller Road
- Single-circuit 69kV powerline from the planned West Park Substation to the existing Perryville 69kV powerline located along the Roosevelt Canal
- APS is in the early stages of the planning process
- APS is conducting agency and public involvement outreach prior to identifying preferred powerline routes





## **Project Need**

- Provide an additional, separate, 69kV power source, allowing the system to serve new development and for increased electricity use within existing developments
- Improve reliability in the area by helping to prevent potential outages that result from the loss of other 69kV powerlines that serve the area
- Provide operating flexibility by creating a new loop and source into the area



### Electricity From the Power Plant to the Customer





# Project Description and Design Considerations



## **Project Description**

- Double-circuit 69kV powerline, approximately 1 to 3 miles in length, from the planned West Park Substation, near Apache and Southern Roads, to the existing Watson-Valencia 69kV powerline located along Miller Road
- Single-circuit 69kV powerline, approximately 2 to 6 miles in length, from the planned West Park Substation to the existing Perryville 69kV powerline located along the Roosevelt Canal
- In-service date summer 2018
- A new line route will require right-of-way or easement up to 40 feet wide
- Will require construction of new steel monopoles approximately 65 feet tall (may include 12kV underbuild)



### **Typical Structures**



Single-circuit 69kV Structures

Double-circuit 69kV Structure



## **Typical Structures**







# Planning Process







## **Next Steps in Planning Process**

- Collect, respond, and document public and agency comments
- Alternative route identification April 2017
- Complete detailed inventory
- Impact assessment
- Next open house May 2017
- Alternative route comparison
- Final route selection June 2017



## **Environmental Studies Overview**

- Land Use existing/future land use and jurisdictional planning guidelines
- Visual sensitive viewers (residences, parks, and travel routes)
- Cultural minimal cultural or archaeological sensitivity, based on existing urban development
- Biology minimal sensitive habitat, based on existing urban development







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#### Perryville to Valencia **69kV** Project

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#### Future Land Use



### **Opportunities and Constraints Analysis**

- Identify opportunities and constraints through evaluation of environmental resources within the project study area
- Conduct an analysis of various environmental resource sensitivity to the construction, operation, and maintenance of a 69kV powerline



### Factors Considered in Route Identification

- Maximize use of siting opportunities
  - Parallel existing linear features, including roads, distribution lines, powerlines, railroads, and canals
- Minimize impact to sensitive resource areas
  - Avoid densely developed areas to the extent practicable



## **Preliminary Facility Siting Criteria**

Constraints	
Constraints	Sensitivity Level
Existing Land Use and Visual Resources	
Residential Low Density	High
Parks/Preservation	High
Schools/Educational Facilities	High
Commercial Retail/Commercial	Moderate
Open Space/Recreation	Moderate
Agriculture	Low
Industrial	Low
Transportation	Low
Utility Facilities (substations, canal, communications, etc.)	Low
Vacant/Undeveloped Land	Low
Public/Quasi-public	
– Church	High
– Cemetery	High
<ul> <li>Government Buildings</li> </ul>	Moderate
Future Land Use and Visual Resources	
Residential – General Plan	Moderate
Commercial – General Plan	Moderate
Industrial – General Plan	Low
Residential – Preliminary Plat	Moderate
Residential – Final Plat	High
Biological Resources	
Xeroriparian Habitat	Moderate
Cultural Resources	
Protected Cultural Features	Moderate

Opportunities		
Opportunities	Opportunity Level	
230kV and 69kV Overhead Transmission Line Corridors	High	
12kV Overhead Distribution Lines adjacent to or within Roadway ROW	High	
12kV Overhead Distribution Lines– in vacant, agricultural, or undeveloped land; and adjacent to canal and/or railroad	High -Moderate	
Major Roadway ROW	High -Moderate	
500-345kV Overhead Transmission Line Corridors	Moderate	
Canal	Moderate	
Railroad	Moderate	





#### Perryville to Valencia 69kV Project

#### **Opportunities and Constraints**



### **Transmission Line Siting Considerations**

**LAND ACQUISITION:** The ability of APS to obtain the necessary land rights (right-of-way) for the safe construction, operation, and maintenance of the project.





# Public Comments and Next Steps



## **Public and Agency Outreach**

- City of Buckeye (January and February with City Mayor, Council, and Staff)
- Maricopa County District 4 Supervisor (February)
- Project newsletters (March 2017, more to follow)

Outreach is ongoing throughout the process.



### **Opportunities for Public Information** and Comment

- Fill out and return a comment form tonight
- Future project newsletters will have updated information and opportunities for comment
- Electronic comment forms and project updates available at: www.aps.com/siting (see Perryville to Valencia 69kV Project under "Current Siting Projects")
- APS Project Manager, Kevin Duncan, can be reached at: 1-888-352-4365 or perryvillevalencia@apsc.com
- Media briefings (APS)
- Next public open house expected May 2017

