



BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE

IN THE MATTER OF THE APPLICATION OF ARIZONA PUBLIC SERVICE COMPANY, IN CONFORMANCE WITH THE REQUIREMENTS OF A.R.S. § 40-360 ET SEQ., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AUTHORIZING THE WILDCAT AND CYCLONE TRANSMISSION LINE PROJECT, WHICH INCLUDES THE CONSTRUCTION OF NEW 230-KILOVOLT SINGLE CIRCUIT TRANSMISSION LINES, WITH THE INTERCONNECTION ORIGINATING AT THE EXISTING APS PALM VALLEY-RUDD 230-KV TRANSMISSION LINE (RUDD TRANSMISSION LINE), PROCEEDING TO THE TS15 SUBSTATION, NE QUARTER OF THE SW QUARTER OF SECTION 21 OF TOWNSHIP 1 NORTH, RANGE 1 WEST, CONTINUING TO THE TS18 SUBSTATION, SE QUARTER OF THE SE QUARTER OF SECTION 21 OF TOWNSHIP 1 NORTH, RANGE 1 WEST, AND CONTINUING SOUTH TERMINATING AT THE RUDD TRANSMISSION LINE LOCATED WITHIN MARICOPA COUNTY, ARIZONA.

DOCKET NO. L-00000D-19-0196-00183

Case No. 183

NOTICE OF FILING WITNESS SUMMARIES AND EXHIBITS OF ARIZONA PUBLIC SERVICE COMPANY

RECEIVED AZ CORP COMMISSION 2019 SEP 12 P 3:21

Arizona Corporation Commission

DOCKETED

SEP 12 2019

DOCKETED BY

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Pursuant to Paragraphs 13, 14, and 15 of Chairman Chenal's August 19, 2019 Procedural Order (the Procedural Order), Arizona Public Service Company (APS or Company), through undersigned counsel, hereby provides the following witness summaries and other exhibits:

Table with 2 columns: EXHIBIT NO. and DESCRIPTION. Rows include APS-1 (Application for Certificate of Environmental Compatibility), APS-2 (Witness Summary of D. Brad Larsen), and APS-3 (Witness Presentation Slides of D. Brad Larsen).


| EXHIBIT NO. | DESCRIPTION |
|--------------------|---|
| APS-4 | Witness Summary of Jason M. Spitzkoff |
| APS-5 | Witness Presentation Slides of Jason M. Spitzkoff |
| APS-6 | Witness Summary of Devin Petry |
| APS-7 | Witness Presentation Slides of Devin Petry |
| APS-8 | Proposed Route Tour Schedule and Protocol |
| APS-9 | Proposed Certificate of Environmental Compatibility |
| APS-10 | Proof of Posting: Notice of Hearing signs posted at site and map |
| APS-11 | Affidavits of Publication and Proof of Website Posting |
| APS-12 | Proof of Delivery of Application for Certificate of Environmental Compatibility Application to Public Locations |
| APS-13 | Newsletter – dated August 30, 2019 |
| APS-14 | Arizona Game and Fish Department Email – dated August 21, 2019 |
| APS-15 | Federal Aviation Administration Email – dated July 22, 2019 |
| APS-16 | Arizona State Historic Preservation Office Email – dated August 27, 2019 |
| APS-17 | Buckeye Water Conservation District Email – dated August 26, 2019 |
| APS-18 | Stream Data Centers Letter – dated September 10, 2019 |

Pursuant to Paragraph 19 of the Procedural Order, Applicant identifies the following witnesses it intends to present at the hearing as a panel:

| PANEL 1 | WITNESS |
|---------|--------------------|
| | D. Brad Larsen |
| | Jason M. Spitzkoff |
| | Devin Petry |

RESPECTFULLY SUBMITTED this 12th day of September, 2019.

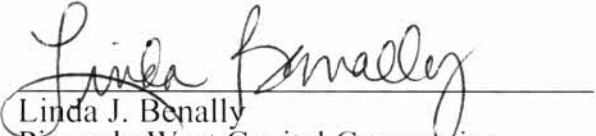
SNELL & WILMER, L.L.P


 J. Matthew Derstine
 Snell & Wilmer, L.L.P.
 One Arizona Center
 400 East Van Buren Street
 Phoenix, Arizona 85004

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AND

ARIZONA PUBLIC SERVICE COMPANY



Linda J. Benally
Pinnacle West Capital Corporation
Law Department
400 North 5th Street, MS 8695
Phoenix, Arizona 85004

ATTORNEYS FOR APS

ORIGINAL and twenty-five (25) copies
of the foregoing filed this 12th day of
September, 2019, with:

The Arizona Corporation Commission
Docket Control
1200 W. Washington Street
Phoenix, Arizona 85007

COPY of the foregoing hand-delivered
this 12th day of September, 2019, to:

Thomas K. Chenal, Chairman
Arizona Power Plant and Transmission
Line Siting Committee
Office of the Arizona Attorney General
15 South 15th Avenue
Phoenix, Arizona 85007

Robin R. Mitchell
Chief Counsel & Legal Division Director
Arizona Corporation Commission
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1 Antonio Arias
2 Legal Division
3 Arizona Corporation Commission
4 1200 West Washington Street
5 Phoenix, AZ 85007

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**WILDCAT AND CYCLONE
230KV TRANSMISSION LINE PROJECT
CASE NO. 183**

Exhibit List

| Tab Number | Exhibit Number | Description |
|-------------------|-----------------------|--|
| Tab 1 | APS-1 | Application for Certificate of Environmental Compatibility, filed August 14, 2019 (previously distributed) |
| Tab 2 | APS-2 | Witness Summary of D. Brad Larsen |
| Tab 3 | APS-3 | Witness Presentation Slides of D. Brad Larsen |
| Tab 4 | APS-4 | Witness Summary of Jason Spitzkoff |
| Tab 5 | APS-5 | Witness Presentation Slides of Jason Spitzkoff |
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| Tab 10 | APS-10 | Proof of Posting: Notice of Hearing signs posted at site and map |
| Tab 11 | APS-11 | Affidavits of Publication and Proof of Website Posting |
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| Tab 17 | APS-17 | Buckeye Water Conservation District Email – dated August 26, 2019 |
| Tab 18 | APS-18 | Stream Data Centers Letter – dated September 10, 2019 |

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Application for Certificate of Environmental Compatibility
Files August 14, 2019
(previously distributed)

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**WILDCAT AND CYCLONE 230KV TRANSMISSION LINE PROJECT
Docket No. L-00000D-19-0196-00183**

WITNESS SUMMARY

of

D. Brad Larsen, P.E.

September 12, 2019

Mr. Larsen is the APS Project Manager for the Wildcat and Cyclone 230kV Transmission Line Project (“Project”). Mr. Larsen will describe the Project, including its location, components, anticipated cost and schedule. Mr. Larsen will discuss how the Project was developed including the identification of the study area, preliminary links and route alternatives. He will then describe the process for identifying the preferred and alternative routes through the public and stakeholder outreach process. Mr. Larsen will also describe the requested corridor and rights-of-way. Finally, Mr. Larsen will testify concerning the public outreach and engagement process used to provide notice and solicit input from the public and stakeholders. Mr. Larsen’s testimony will establish that the Project serves the need and the preferred route is the best route.

More details with respect to Mr. Larsen’s testimony are contained in the presentation slides which have been filed in the docket and provided to the Power Plant and Transmission Line Siting Committee.

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WILDCAT AND CYCLONE 230KV TRANSMISSION LINE PROJECT

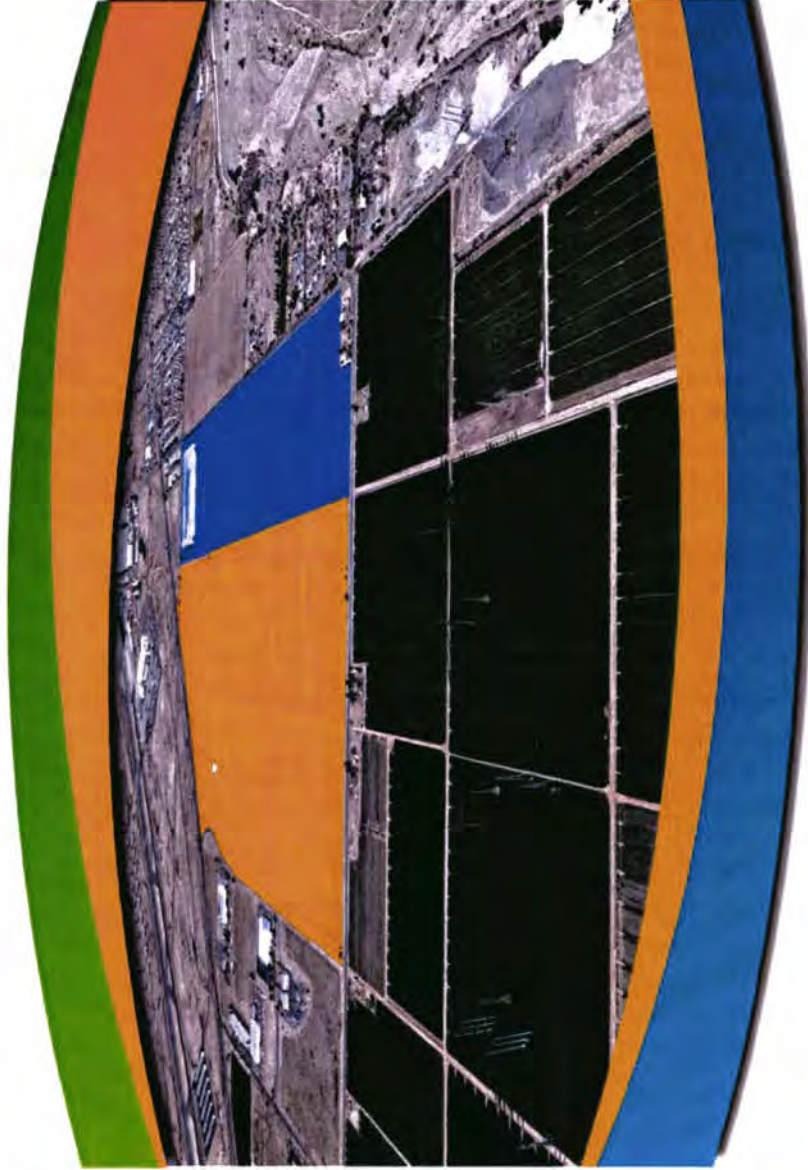
Docket No. L-00000D-19-0196-00183

WITNESS PRESENTATION SLIDES

of

D. BRAD LARSEN

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

Submitted by | **Arizona Public Service Company**

August 2019

Wildcat and Cyclone 230kV Transmission Line Project

**Application for a Certificate
of Environmental Compatibility
Case No. 183**

Prepared for

Arizona Power Plant and Transmission Line Siting Committee





D. Brad Larsen, P.E.

Project Manager
Transmission and Facility Siting

Arizona Public Service Company







Witness Background

- **Education**
 - Arizona State University
 - Bachelor of Science in Electrical Engineering
- **Professional Experience**
 - Registered Electrical Engineer in the State of Arizona since 1994
 - Senior Member IEEE





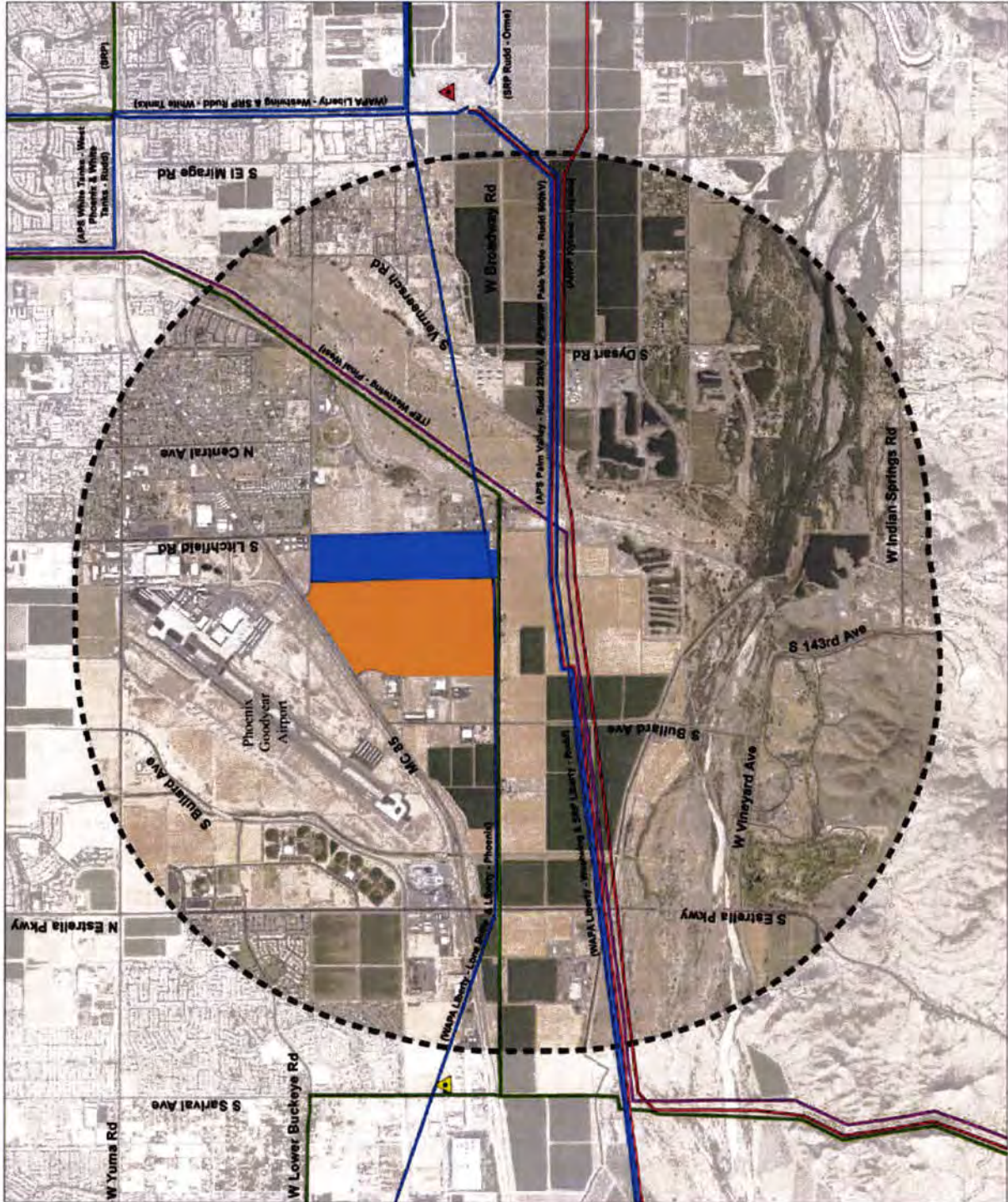
Witness Background

- **Professional Experience**
 - 30 years of experience at APS
 - Transmission/Sub-transmission Planning Engineer
 - Substation Engineering and Construction – Engineer/Supervisor
 - Underground Construction Project Management – Supervisor
 - Transmission Line Siting Project Manager – 15 years experience

Project Study Area

Wildcat and Cyclone 230kV Transmission Line Project

- Project Features**
- Wildcat Site
 - Cyclone Site
 - 2 mile Study Area
- Existing Transmission Facilities**
- 69kV Substation
 - 500/230kV Substation
 - 69kV Transmission Line
 - 230kV Transmission Line
 - 345kV Transmission Line
 - 500kV Transmission Line

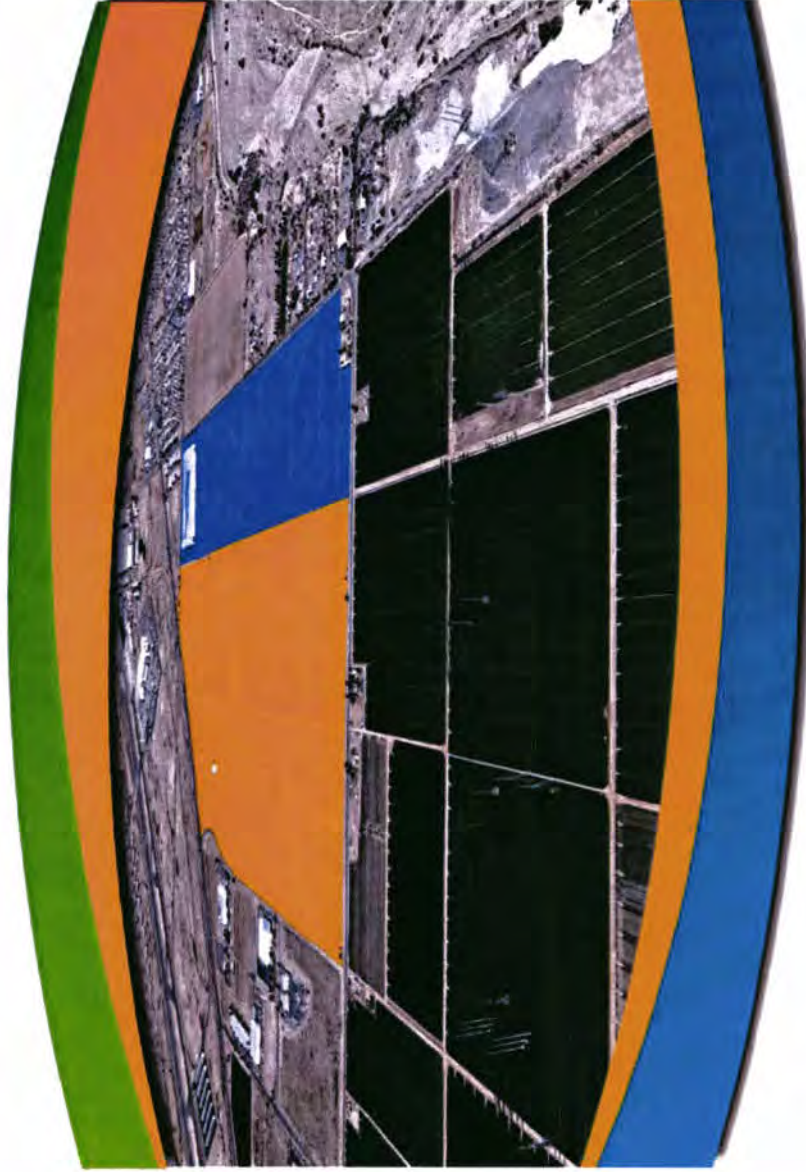




Outline of Testimony

- Application and Notice
- Project Description
- Project Development and Alternatives Identification
- Corridors and Rights-of-Way
- Project Costs and Facilities
- Public and Agency Outreach

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

Submitted by | **Arizona Public Service Company**

August 2019

Application and Notice



Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

Submitted by | **Arizona Public Service Company**

August 2019



Application and Notice

- Application
 - Filed on August 14, 2019
- Publication of Notice of Hearing
 - West Valley View: August 21, 28
 - Arizona Republic: August 21, 24
- Posting of signs
 - August 22

ORIGINAL



BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE

DOCKET NO. I.-00000D-19-0196-00183

Case No. 183 Arizona Corporation Commission

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IN THE MATTER OF THE APPLICATION OF ARIZONA PUBLIC SERVICE COMPANY, IN CONFORMANCE WITH THE REQUIREMENTS OF A.R.S. § 40-360 ET SEQ., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AUTHORIZING THE WILDCAT AND CYCLONE TRANSMISSION LINE PROJECT, WHICH INCLUDES THE CONSTRUCTION OF NEW 230-KILOVOLT SINGLE CIRCUIT TRANSMISSION LINES, WITH THE INTERCONNECTION ORIGINATING AT THE EXISTING APS PALM VALLEY-RUDD 230-KV TRANSMISSION LINE (RUDD TRANSMISSION LINE), PROCEEDING TO THE TS15 SUBSTATION, NE QUARTER OF THE SW QUARTER OF SECTION 21 OF TOWNSHIP 1 NORTH, RANGE 1 WEST, CONTINUING TO THE TS18 SUBSTATION, SE QUARTER OF THE SE QUARTER OF SECTION 21 OF TOWNSHIP 1 NORTH, RANGE 1 WEST, AND CONTINUING SOUTH TERMINATING AT THE RUDD TRANSMISSION LINE LOCATED WITHIN MARICOPA COUNTY, ARIZONA.

NOTICE OF HEARING

A PUBLIC HEARING WILL BE HELD before the Arizona Power Plant and Transmission Line Siting Committee (Committee) regarding the Application of Arizona Public Service Company (Applicant or APS) for a Certificate of Environmental Compatibility (CEC) authorizing the construction of the Wildcat and Cyclone 230 kilovolt (kV) Transmission Line Project (Project).

The Project will consist of new single-circuit 230kV transmission lines between the existing APS Palm Valley Rudd 230kV transmission line and the TS15 Substation












Application and Notice

- Application
 - Filed on August 14, 2019
- Publication of Notice of Hearing
 - West Valley View: August 21, 28
 - Arizona Republic: August 21, 24
- Posting of signs
 - August 22

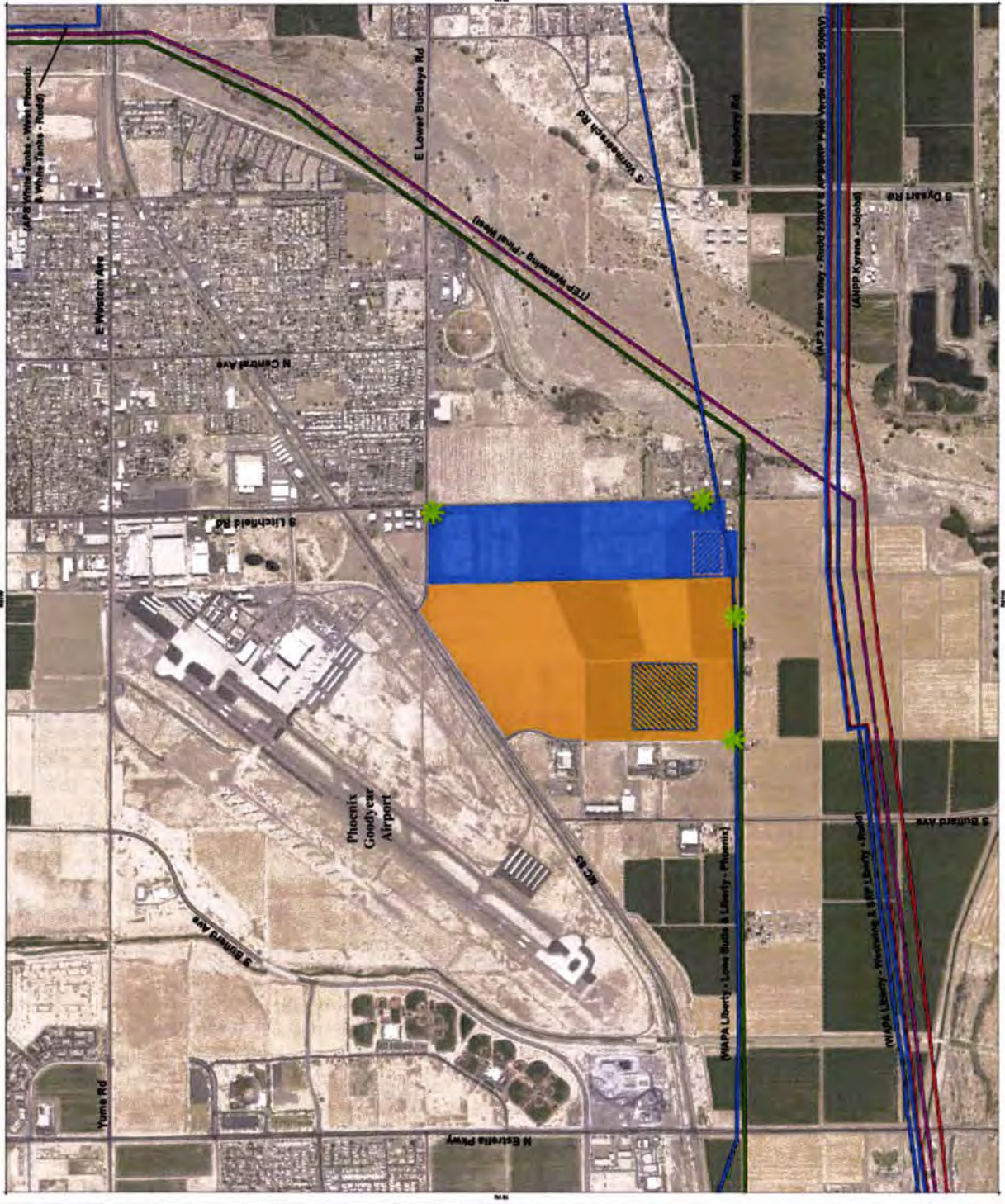
Wildcat and Cyclone 230kV Transmission Line Project

Proposed Notice of Hearing Sign Locations

- Project Features**
-  Sign Locations
 -  Wildcat Site
 -  TS15 Substation
 -  Cyclone Site
 -  TS18 Substation
- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line



August 2019





Application and Notice

- Application
 - Filed on August 14, 2019
- Publication of Notice of Hearing
 - West Valley View: August 21, 28
 - Arizona Republic: August 21, 24
- Posting of signs
 - August 22



SW corner
Litchfield
& Lower Buckeye



.1 mile North of Broadway Rd
on West Side of Litchfield Rd.
facing Litchfield Road



.3 mile West of Litchfield
Road on North side of
Broadway Rd.



..7 mile West of Litchfield
Road on North side of
Broadway Rd.



SIGNS | BANNERS | AUTO GRAPHICS | BUSINESS CARDS
ARCHITECTURAL LETTERS | LASER CUTTING | PRINTING

COMPANY: APS / EPG

PROJECT NAME: WILDCAT / CYCLONE

PROJECTED COMPLETION DATE: **APPROVED BY:** **DATE:**

Application and Notice

- Application
 - Filed on August 14, 2019
- Publication of Notice of Hearing
 - West Valley View: August 21, 28
 - Arizona Republic: August 21, 24
- Posting of signs
 - August 22

NOTICE OF PUBLIC HEARING

Arizona Public Service Company Wildcat and Cyclone 230kV Transmission Line Project

Arizona Public Service Company invites the public to participate at a public hearing before the Arizona Power Plant and Transmission-Line Siting Committee

| Date | Time | Location |
|-----------------------|-------------------|---|
| September 24, 2019 | 1:00 PM - 4:00 PM | Corbett Sulist Cooperative |
| September 25-27, 2019 | 8:00 AM - 4:00 PM | 15575 W Roundwell Road Glendale, Arizona 85328 |

*Site tour may take place on September 25, 2019 and will begin at 8:00 AM. Attendance to the hearing at morning schedule and additional hearing days, if necessary, will be posted in the Commission website, azps.com at www.azps.com/participate.

Public comment will be taken at the hearing as well as at

8:00 PM on September 24, 2019 at the Corbett Sulist Cooperative
For more information, call 602-415-4339 or visit www.azps.com

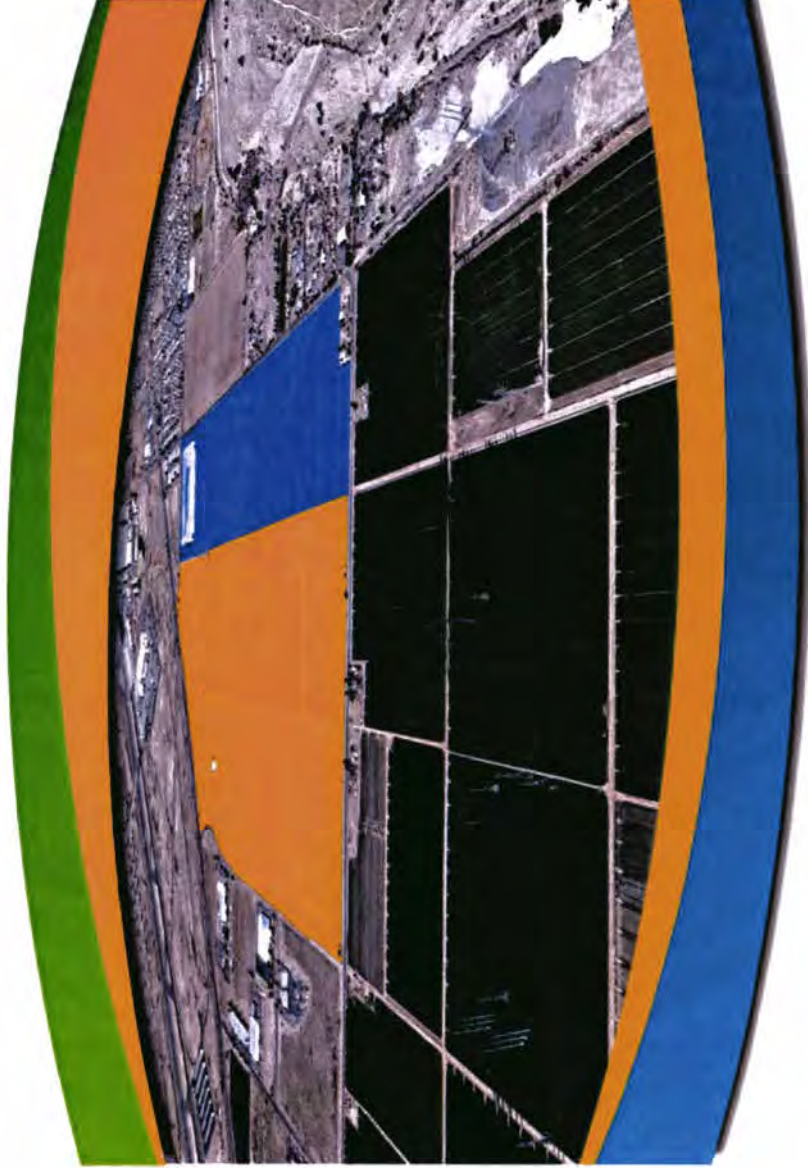


Arizona Department of Commerce Docket No. L000000-19-0196-000181 Case No. 182

Application and Notice

- Application
 - Filed on August 14, 2019
- Publication of Notice of Hearing
 - West Valley View: August 21, 28
 - Arizona Republic: August 21, 24
- Posting of signs
 - August 22

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

Submitted by | **Arizona Public Service Company**

August 2019

Project Description and Development



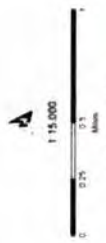
Land Ownership

Wildcat and Cyclone 230kV Transmission Line Project

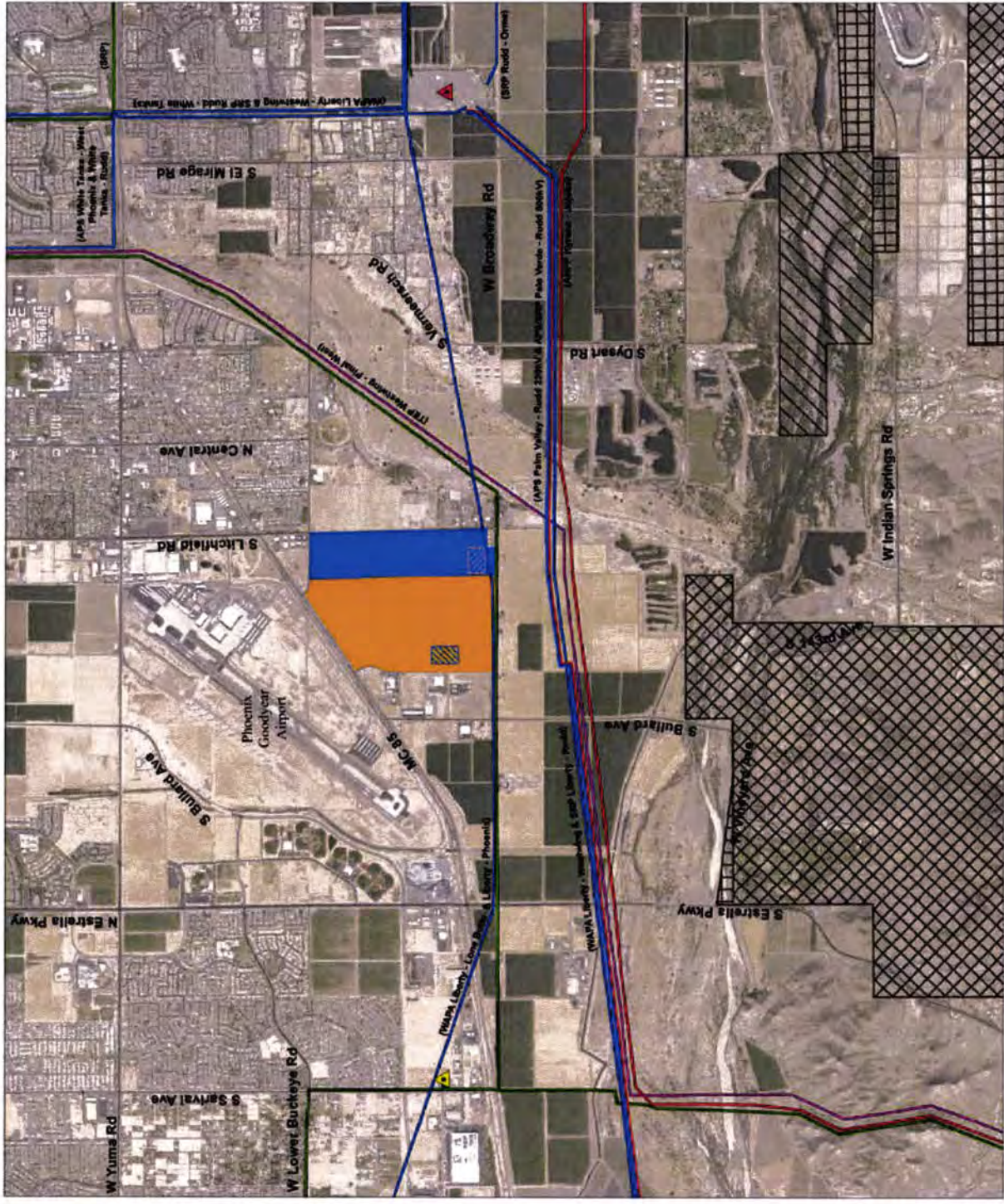
- Land Ownership**
- BLM
 - County Park
 - State
 - Private/Other

- Project Features**
- Wildcat Site
 - TS15 Substation
 - Cyclone Site
 - TS18 Substation

- Existing Transmission Facilities**
- 69kV Substation
 - 500/230kV Substation
 - 69kV Transmission Line
 - 230kV Transmission Line
 - 345kV Transmission Line
 - 500kV Transmission Line



aps
September 2019
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Project Description

- Interconnect new single-circuit 230kV lines into the existing 230kV Palm Valley – Rudd line
- New lines connect two new 230kV substations into the existing line
- Substations located approximately 1/2 mile north of existing line

Jurisdiction

Wildcat and Cyclone 230kV Transmission Line Project

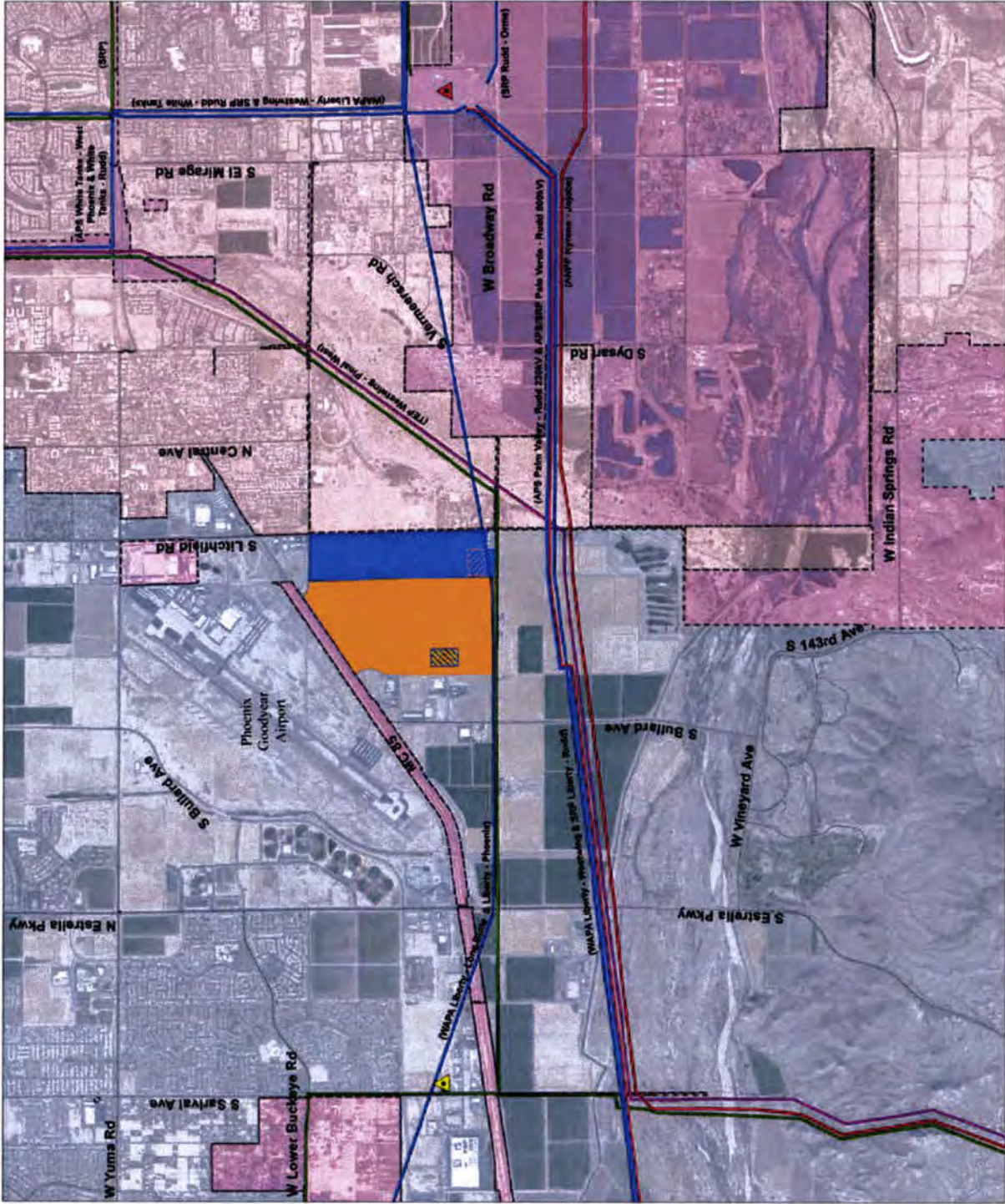
- Jurisdiction**
- Avondale
 - Goodyear
 - Marcopolo County

- Project Features**
- Wildcat Site
 - TS15 Substation
 - Cyclone Site
 - TS18 Substation

- Existing Transmission Facilities**
- 69kV Substation
 - 500/230kV Substation
 - 69kV Transmission Line
 - 230kV Transmission Line
 - 345kV Transmission Line
 - 500kV Transmission Line



September 2019



Project Description

- Interconnect new single-circuit 230kV lines into the existing 230kV Palm Valley – Rudd line
- New lines connect two new 230kV substations into the existing line
- Substations located approximately 1/2 mile north of existing line

Jurisdiction

Wildcat and Cyclone 230kV Transmission Line Project

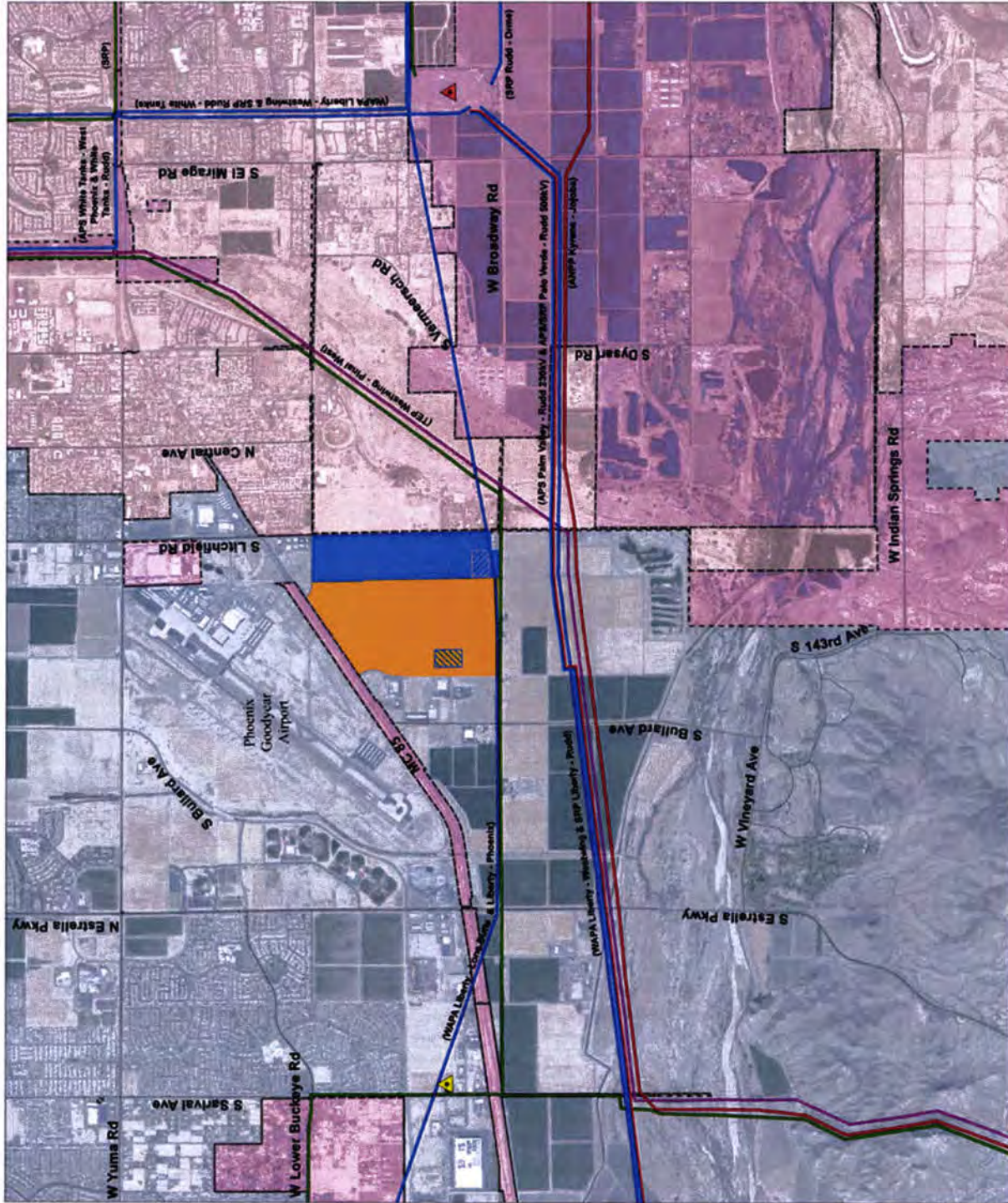
- Jurisdiction**
- Avondale
 - Goodyear
 - Maricopa County

- Project Features**
- Wildcat Site
 - TS15 Substation
 - Cyclone Site
 - TS18 Substation

- Existing Transmission Facilities**
- 69kV Substation
 - 500/230kV Substation
 - 69kV Transmission Line
 - 230kV Transmission Line
 - 345kV Transmission Line
 - 500kV Transmission Line



September 2019















Project Development Overview

- Identify preliminary study area
- Identify preliminary links
- Refine preliminary links and study area
- Evaluation of alternatives
- Selection of preferred alternative

Preliminary Study Area

Wildcat and Cyclone 230kV Transmission Line Project

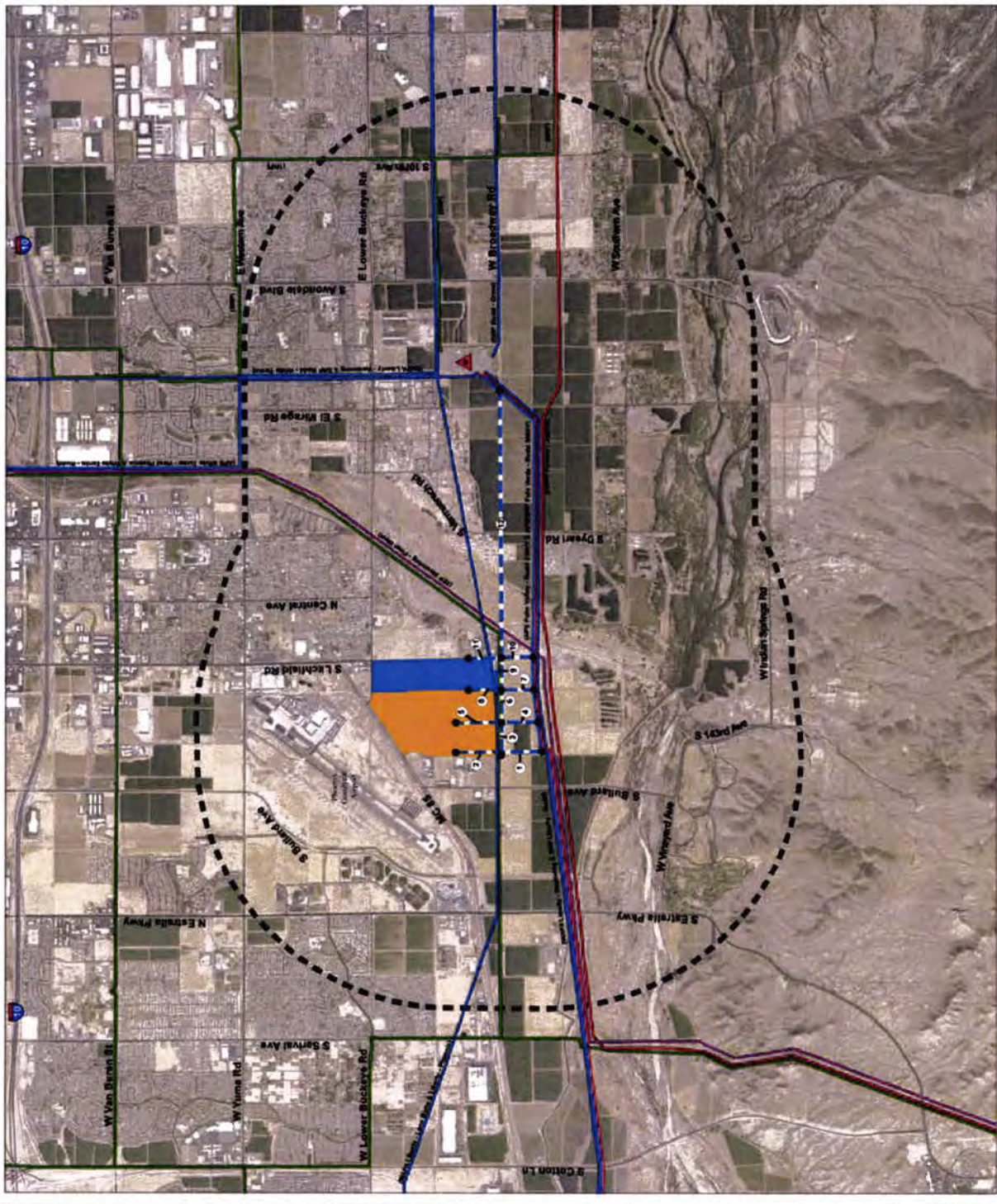
- Project Features**
-  Wildcat Site
 -  Cyclone Site
 -  2 mile Preliminary Study Area
 -  230kV Transmission
 -  Preliminary Links
 -  Link Number
 -  Link Node

- Existing Transmission Facilities**
-  69kV Substation
 -  500/230kV Substation
 -  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line



September 2019












Preliminary Link and Study Area Development

- Identify preliminary study area
- Identify preliminary links
- Create 2-mile buffer surrounding interconnection options







Project Study Area

Wildcat and Cyclone 230kV Transmission Line Project

Project Features

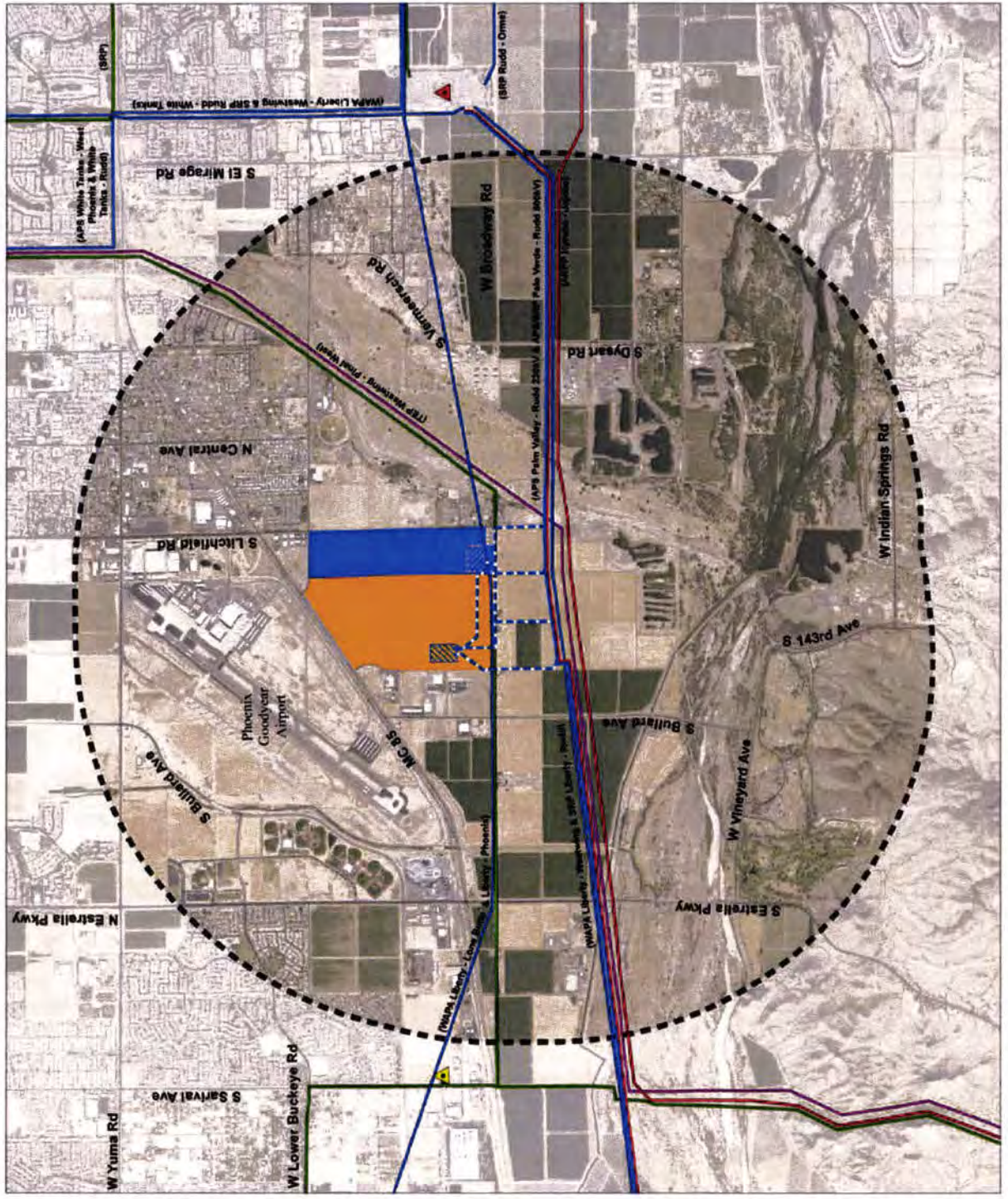
-  Wildcat Site
-  TS-15 Substation
-  Cyclone Site
-  TS-18 Substation
-  2 mile Preliminary Study Area Line Alternatives

Existing Transmission Facilities

-  69kV Substation
-  500/230kV Substation
-  69kV Transmission Line
-  230kV Transmission Line
-  345kV Transmission Line
-  500kV Transmission Line

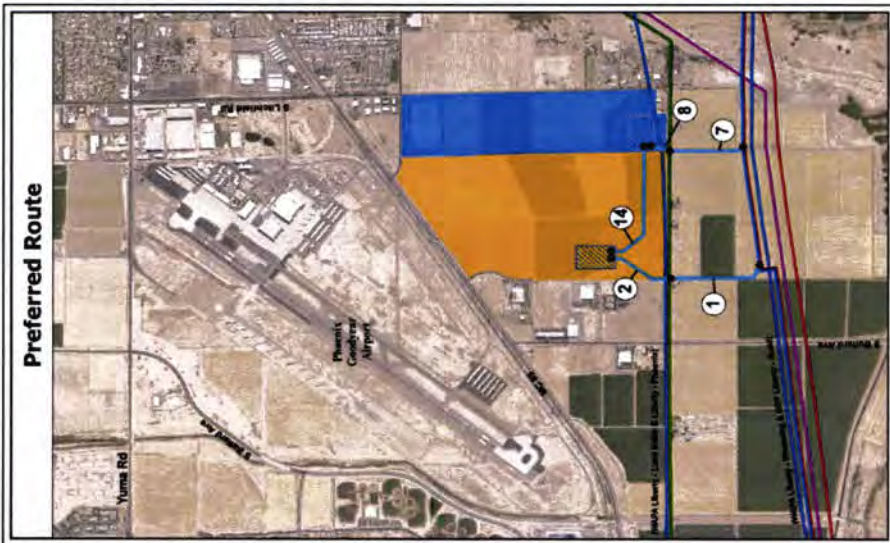
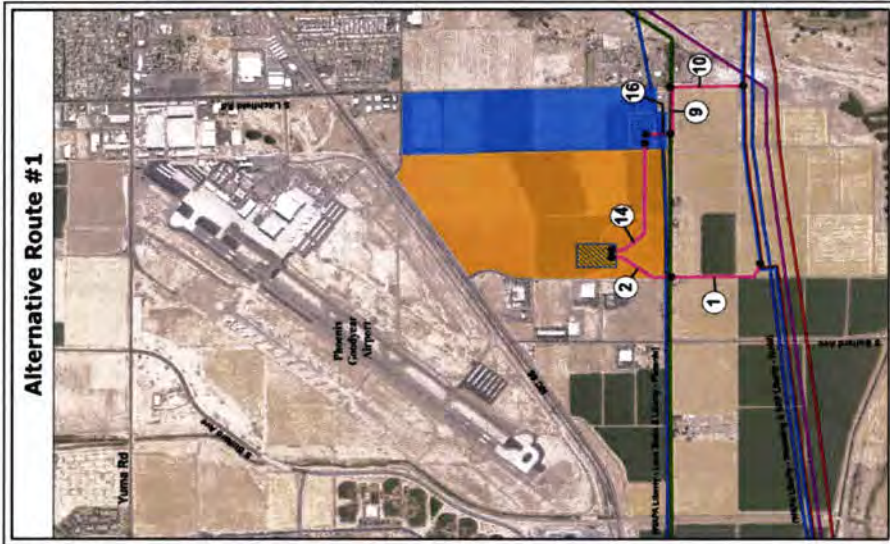
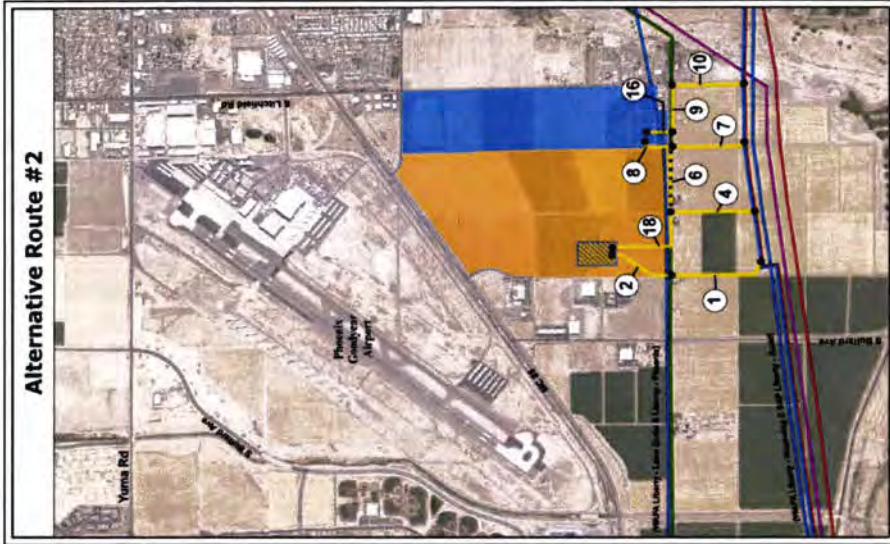


September 2019



Route Development

- Study area refined after public input
- Evaluation of alternatives
- Resulted in identification of preferred route and 2 alternatives



Wildcat and Cyclone 230kV Transmission Line Project

Preferred Route and Alternative Routes

Existing Transmission Facilities

- 69kV Transmission Line
- 230kV Transmission Line
- 345kV Transmission Line
- 500kV Transmission Line

Project Features

- 230kV Transmission Line Preferred Route
- 230kV Transmission Line Alternative Route #1
- 230kV Transmission Line Alternative Route #2
- 230kV Transmission Line Alternative Sub-Route
- Wildcat Site
- TS15 Substation
- Cyclone Site
- TS18 Substation
- Link Number
- Link Node



August 2019





Project Alternatives

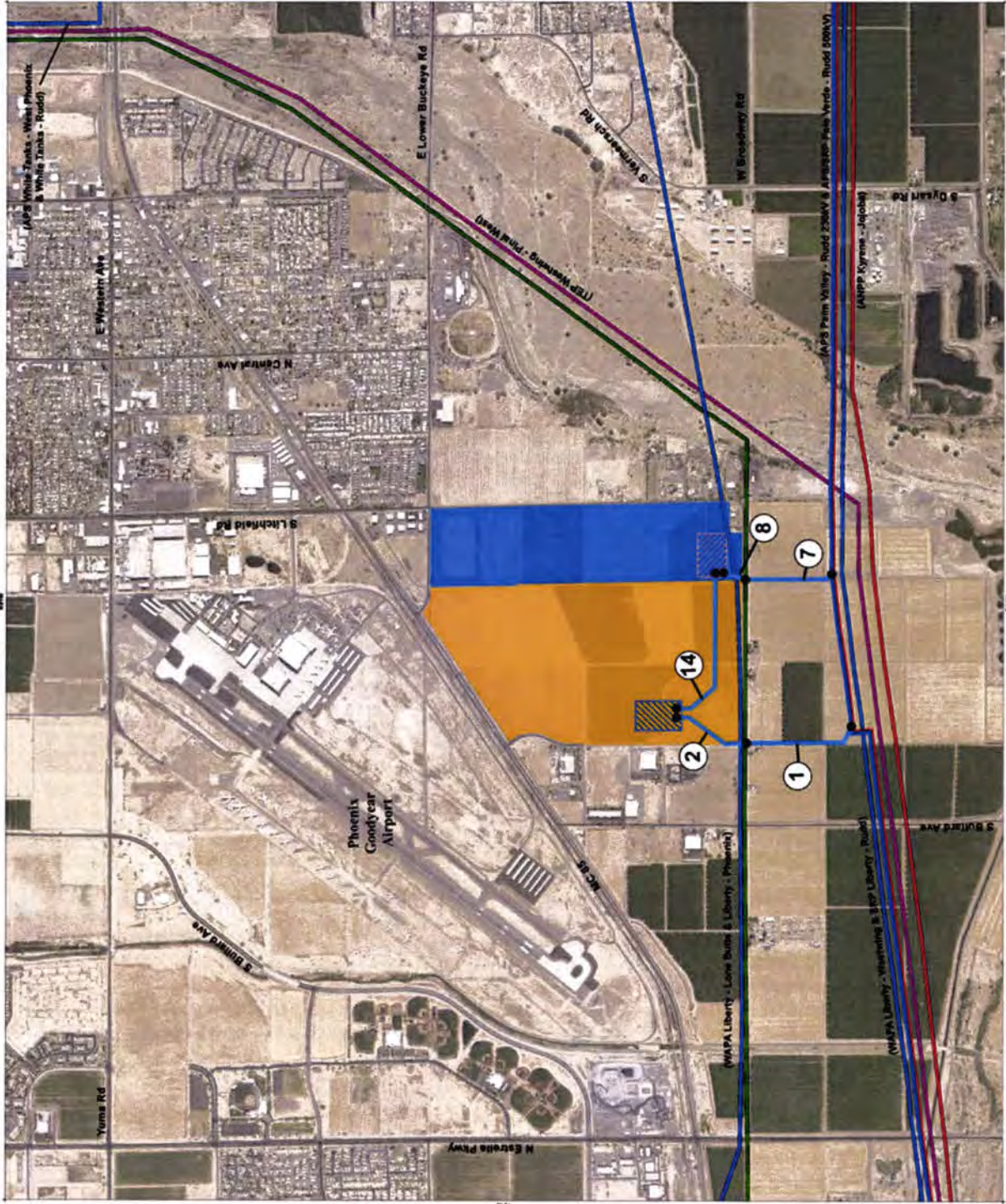
- Preferred Route
- Route Alternative 1
- Route Alternative 2 with Sub-Route

Wildcat and Cyclone 230kV Transmission Line Project

Preferred Route

- Project Features**
- 230kV Transmission Line Preferred Route
 - Wildcat Site
 - TS15 Substation
 - Cyclone Site
 - TS18 Substation
 - Link Number
 - Link Node

- Existing Transmission Facilities**
- 69kV Transmission Line
 - 230kV Transmission Line
 - 345kV Transmission Line
 - 500kV Transmission Line



August 2019





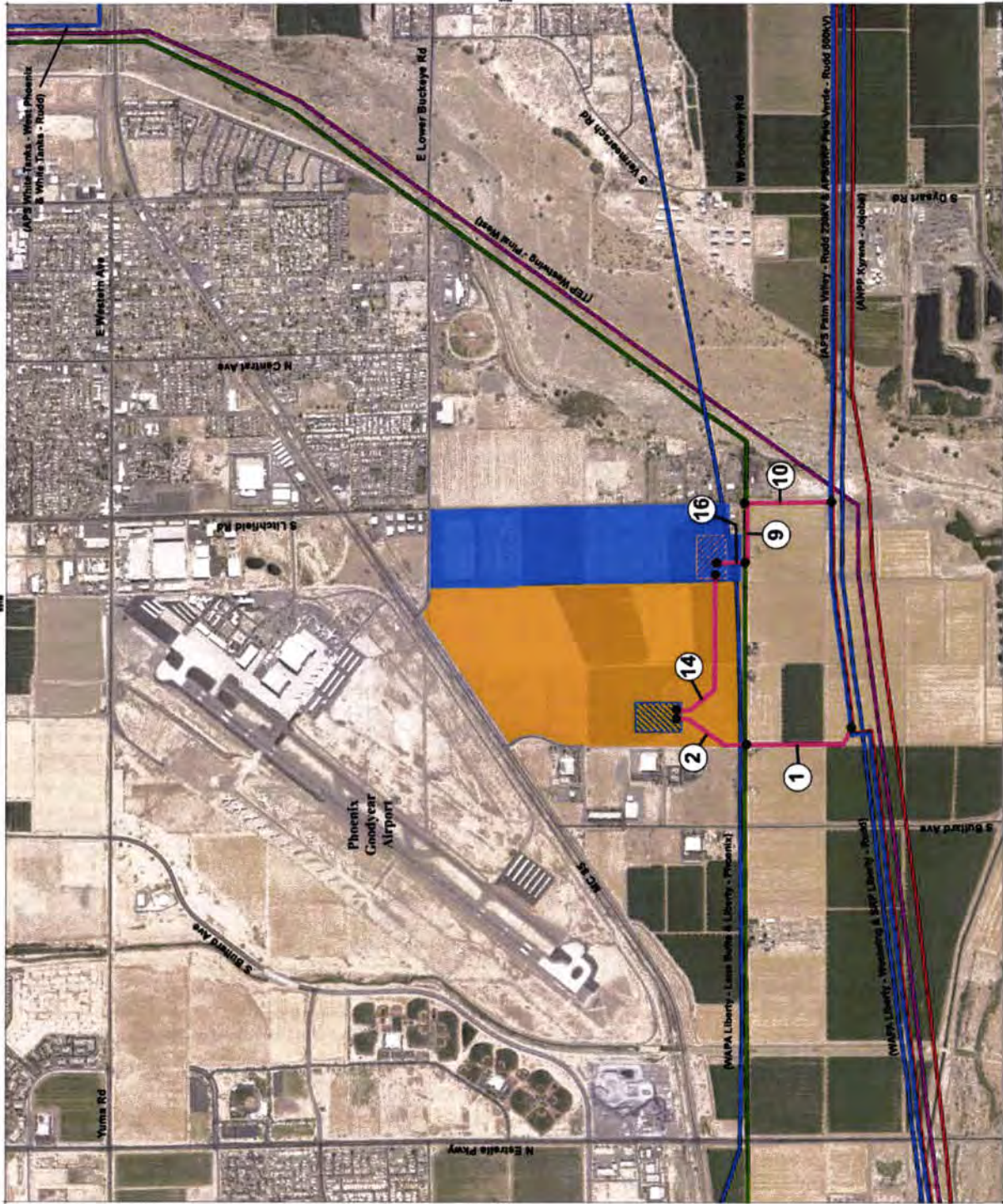
Preferred Route

- 1.45 miles
- 54% on customers' land
- 44% on other private land
- 2% on City of Goodyear land

Wildcat and Cyclone 230kV Transmission Line Project

Alternative Route #1

- Project Features**
-  230kV Transmission Line Alternative Route #1
 -  Wildcat Site
 -  TS15 Substation
 -  Cyclone Site
 -  TS18 Substation
 -  Link Number
 -  Link Node
- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line





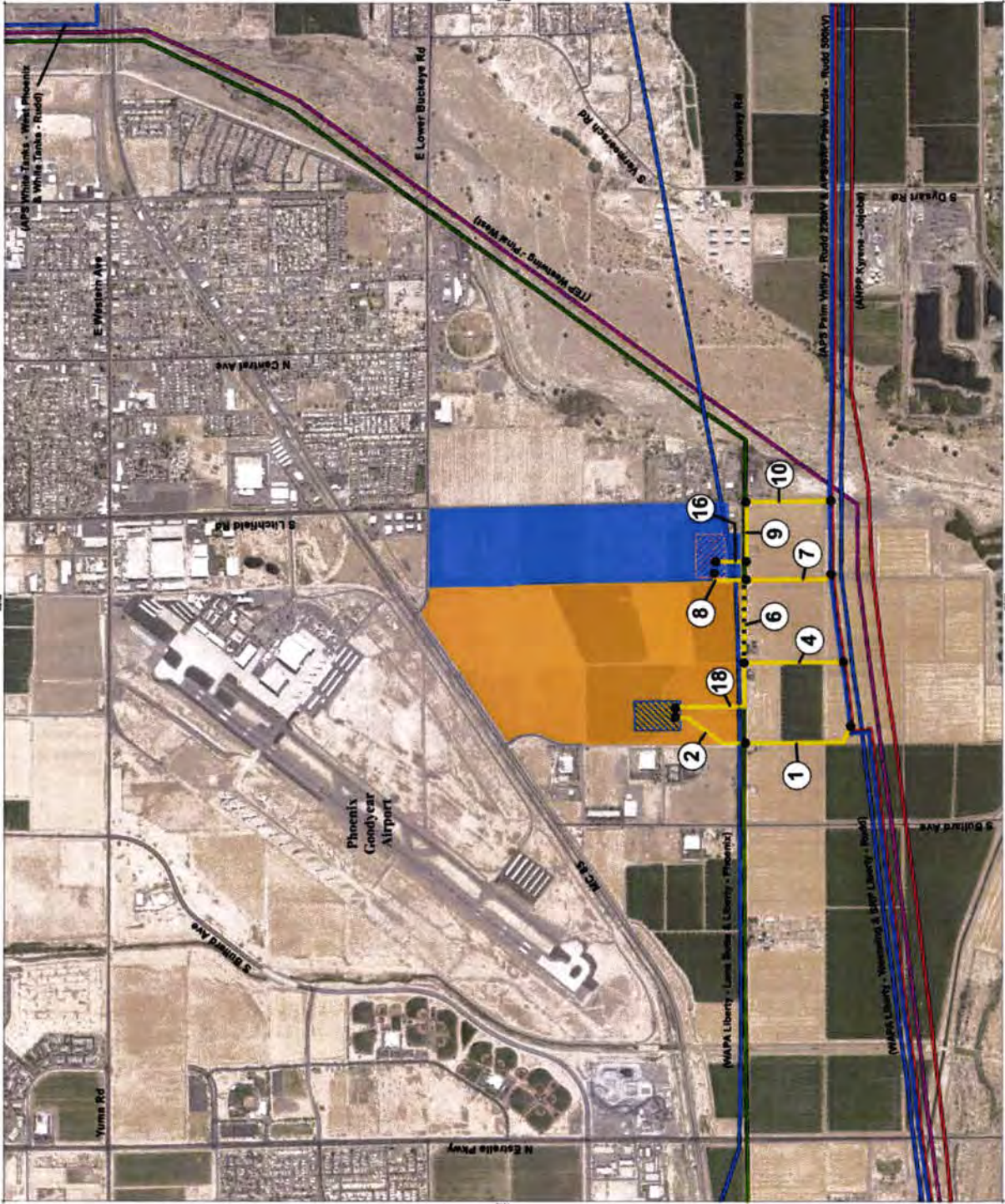
Alternative Route 1

- 1.65 miles
- 50% on customers' land
- 48% on other private land
- 2% on City of Goodyear land

Wildcat and Cyclone 230kV Transmission Line Project

Alternative Route #2

- Project Features**
- 230kV Transmission Line Alternative Route #2
 - 230kV Transmission Line Alternative Sub-Route
 - Wildcat Site
 - TS15 Substation
 - Cyclone Site
 - TS18 Substation
 - Link Number
 - Link Node
- Existing Transmission Facilities**
- 69kV Transmission Line
 - 230kV Transmission Line
 - 345kV Transmission Line
 - 500kV Transmission Line









Alternative Route 2

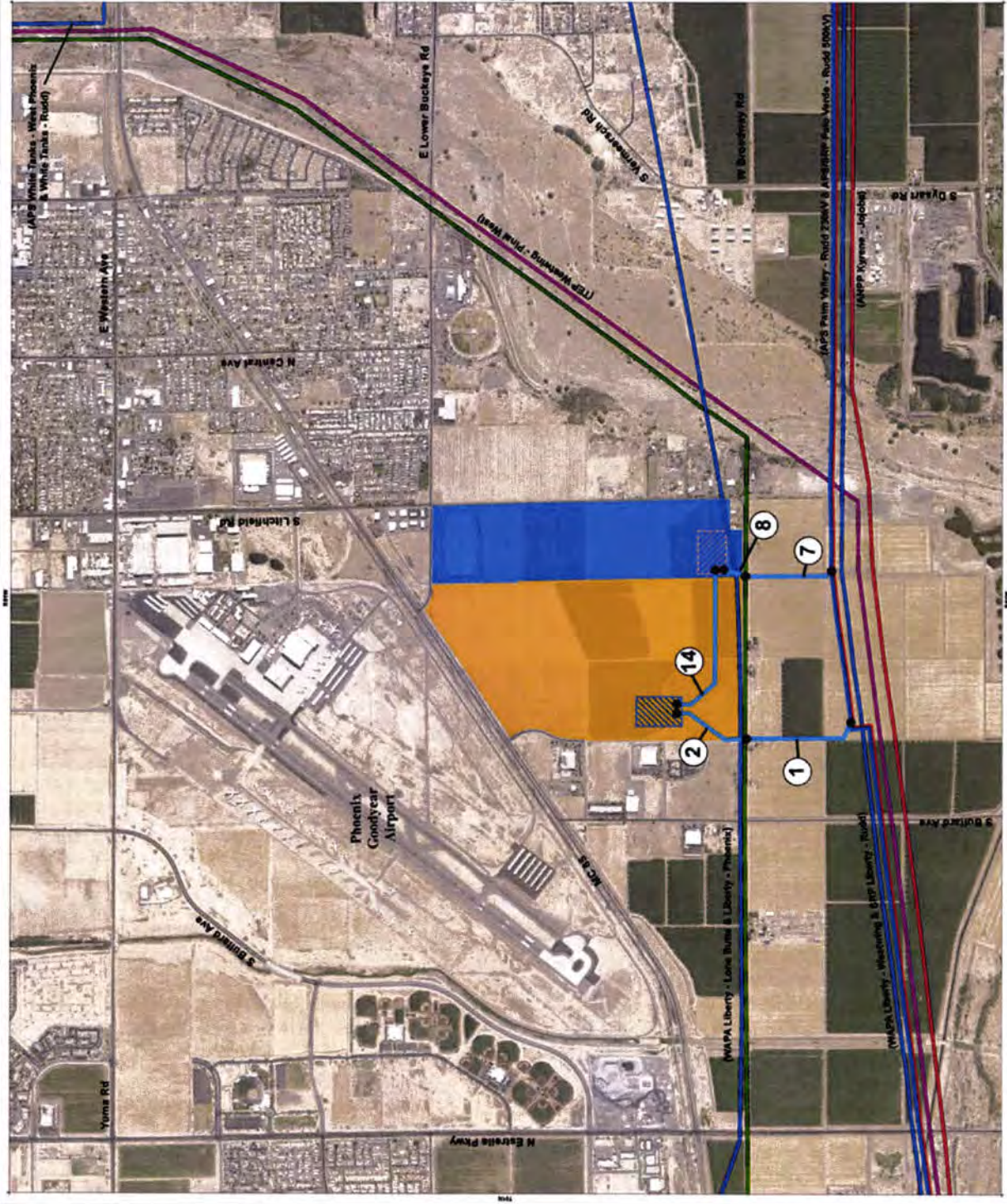
- 2.22 miles
 - 1.89 miles with sub-route
- 27% on customers' land
 - 32% with sub-route
- 70% on other private land
 - 64% with sub-route
- 3% on City of Goodyear land
 - 4% with sub-route

Wildcat and Cyclone 230kV Transmission Line Project

Preferred Route

- Project Features**
-  230kV Transmission Line Preferred Route
 -  Wildcat Site
 -  Cyclone Site
 -  TS15 Substation
 -  TS18 Substation
 -  Link Number
 -  Link Node

- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line



August 2019

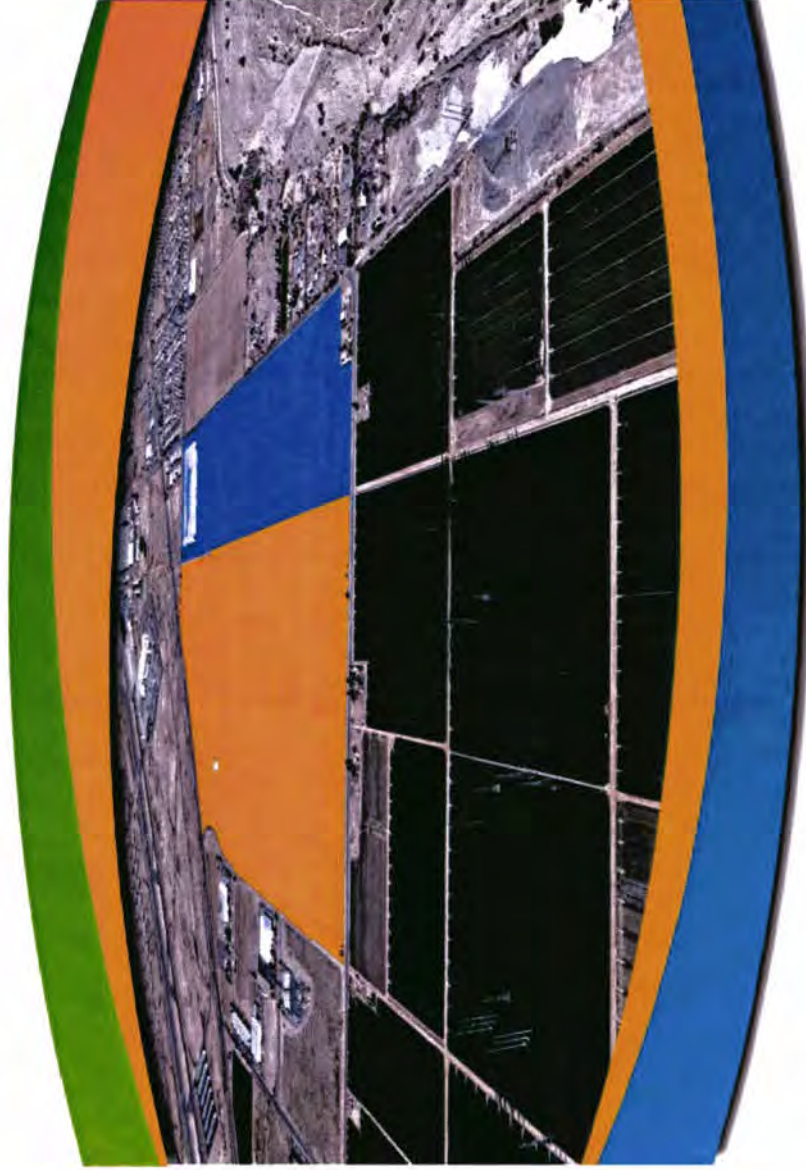


Corridor / Right-of-Way

- Requesting variable width corridor dependent on routing
- Right-of-way width of 100 to 120 feet

Case No.183

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**
Submitted by | **Arizona Public Service Company**

August 2019

Project Costs and Facilities





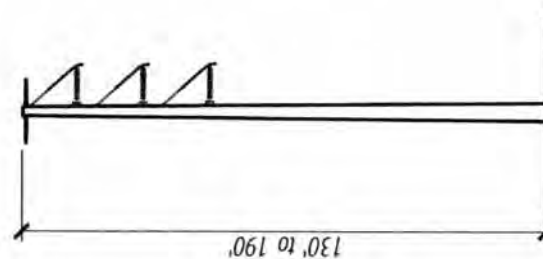
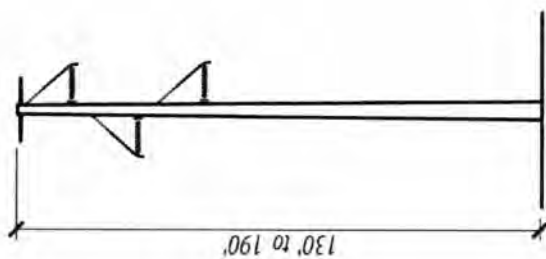
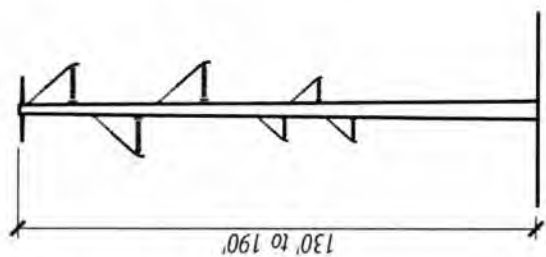
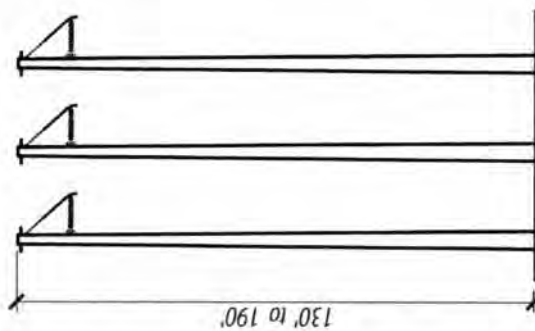
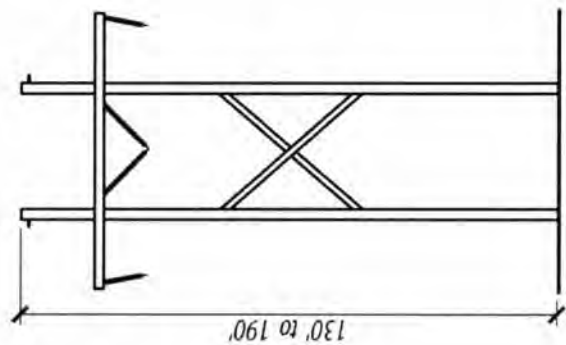
Project Costs

| Transmission Line Alternative | Total Length of Transmission Line (miles) | Right-of-Way Costs (\$ millions) | Construction Costs (\$ millions) | Total Right-of-Way and Construction Costs (\$ millions) |
|-------------------------------------|---|----------------------------------|----------------------------------|---|
| Preferred Route | 1.45 | 1.47 | 2.65 | 4.12 |
| Alternative Route #1 | 1.65 | 1.62 | 3.01 | 4.63 |
| Alternative Route #2 | 2.22 | 2.37 | 4.10 | 6.47 |
| Alternative Route #2 with Sub-Route | 1.89 | 1.88 | 3.50 | 5.38 |



Project Cost

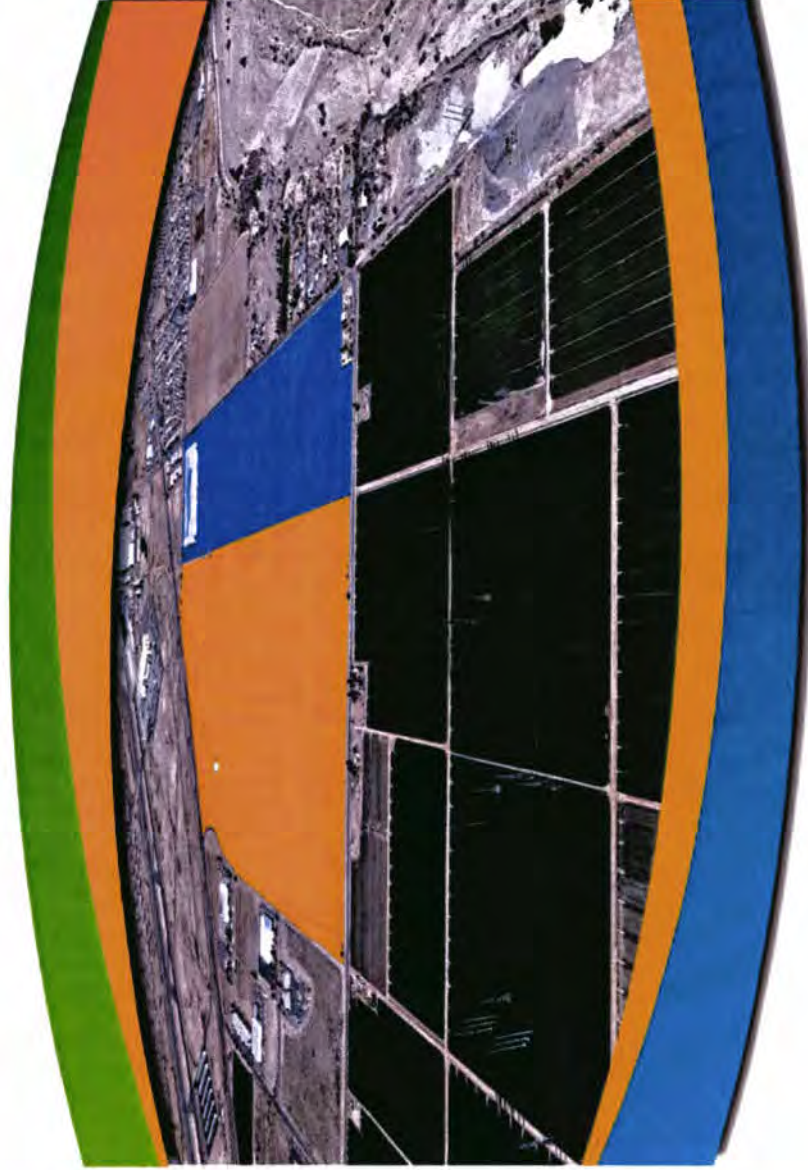
- Right-of-way: \$1.47 to \$2.37 million depending on route
- Construction: \$2.65 to \$4.10 million depending on route
- Total cost : \$4.12 to \$6.47 million depending on route



Facilities

- Steel monopoles and H-frame structures
 - H-frames for crossing WAPA 230kV line
- Height of structures
 - 130 – 190 feet
 - Compatible with Phoenix Goodyear Airport, per preliminary FAA review
- Span lengths
 - 500 – 1,200 feet

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



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

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Public and Stakeholder Involvement



Preliminary Study Area

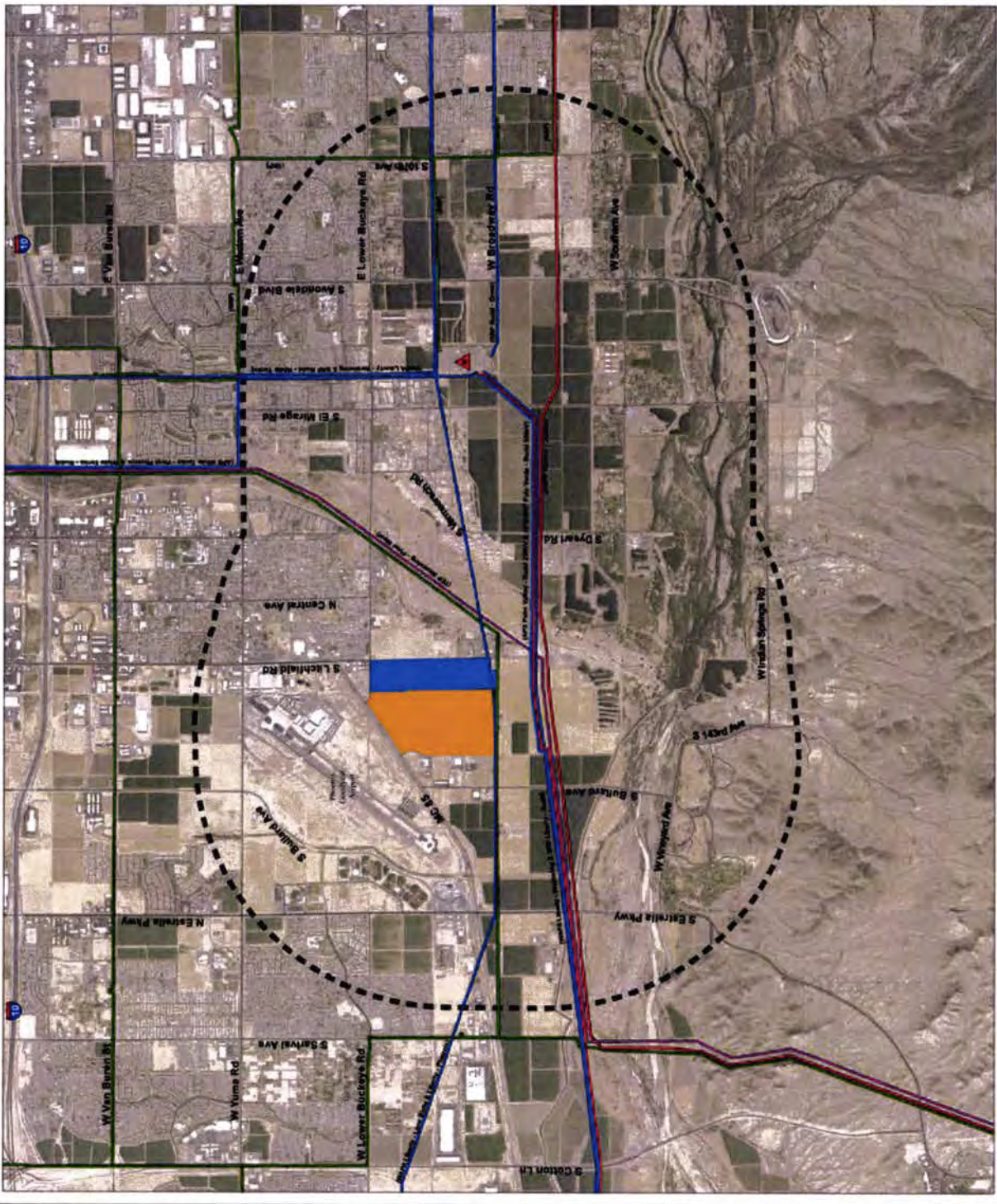
Wildcat and Cyclone 230kV Transmission Line Project

- Project Features**
-  Wildcat Site
 -  Cyclone Site
 -  2 mile Preliminary Study Area

- Existing Transmission Facilities**
-  69kV Substation
 -  500/230kV Substation
 -  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line



September 2019



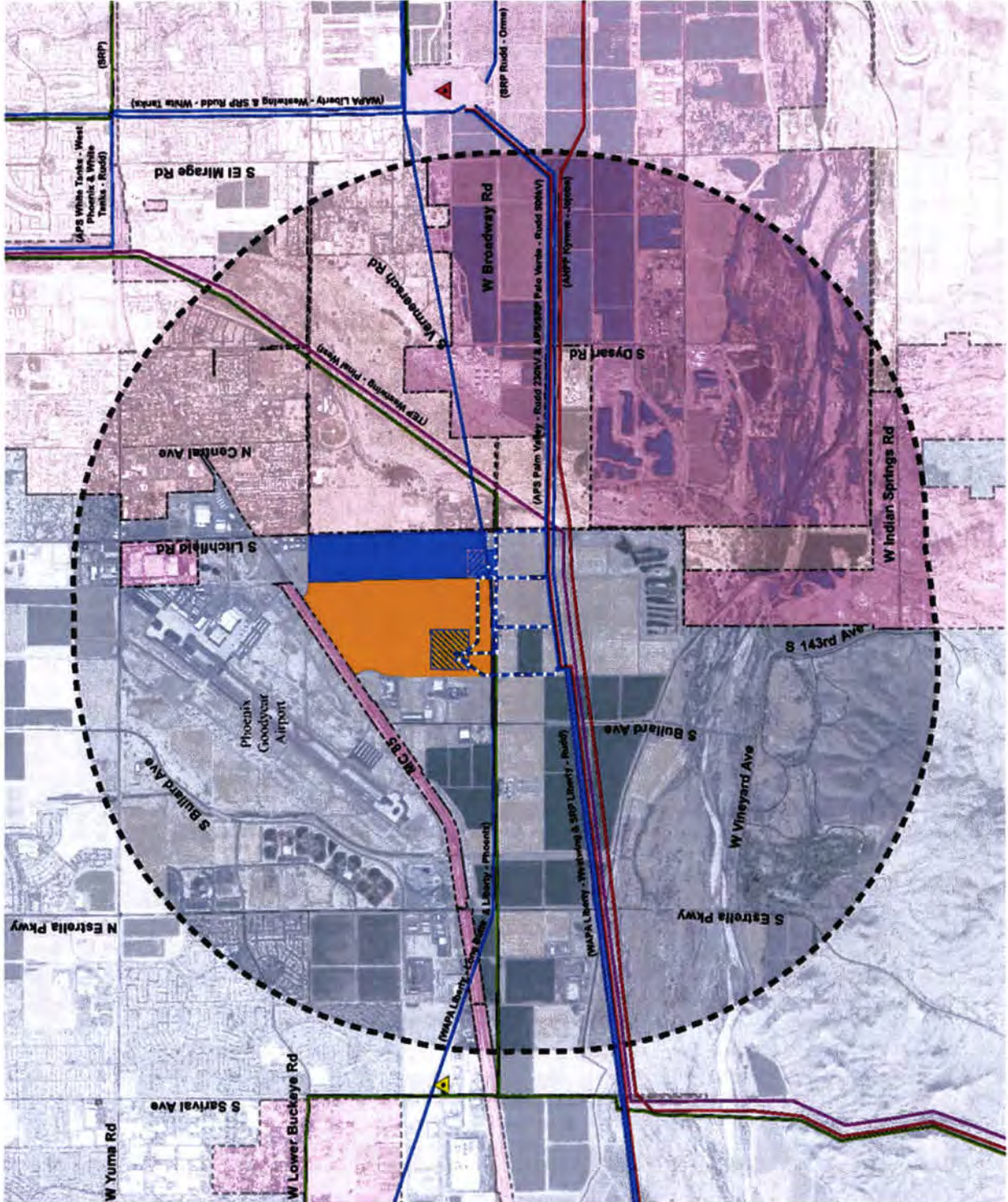
Public Involvement Exhibit J

- Two Project newsletters
 - More than 13,000 mailings
 - May 31 and September 3, 2019
 - One more following ACC decision
- Open house
 - June 19, 2019
 - Approximately 12 attendees, nearby landowners and jurisdictional representatives
- Project website and phone line

Exhibit A - 2 Jurisdiction

Wildcat and Cyclone 230kV Transmission Line Project

- Jurisdiction**
- Avenale
 - Goodyear
 - Maricopa County
- Project Features**
- Wildcat Site
 - TS15 Substation
 - Cyclone Site
 - TS18 Substation
 - 2 mile Study Area
 - 230kV Transmission Line Alternatives
- Existing Transmission Facilities**
- 69kV Substation
 - 500/230kV Substation
 - 69kV Transmission Line
 - 230kV Transmission Line
 - 345kV Transmission Line
 - 500kV Transmission Line



Stakeholder Involvement Exhibit J

- Stakeholder Briefings
 - City of Goodyear
 - FAA, Phoenix Goodyear Airport, City of Phoenix Aviation Department
 - Buckeye Water Conservation and Drainage District
 - City of Avondale
 - Luke Air Force Base
 - ADOT SR30 Development Team
- Landowner Outreach

Devin Petry

Subject: FW: FAA requirements & Microsoft Data Center Layout
Attachments: Loc 3.pdf; Loc 2.pdf; Loc 1.pdf

From: Holmquist, Paul (FAA) [mailto:Paul.Holmquist@faa.gov]
Sent: Monday, July 22, 2019 8:32 AM
To: Eich, Stephen K <Stephen.Eich@aps.com>; Schlier, David M <David.Schlier@aps.com>
Subject: RE: FAA requirements & Microsoft Data Center Layout

*****CAUTION*****
*****CAUTION*****
*****CAUTION*****
This e-mail is from an **EXTERNAL** address (Paul.Holmquist@faa.gov). **DO NOT** click on links or open attachments unless you trust the sender is safe. If you suspect this message to be phishing, please report it to the AFS Cyber Defense Center at JCIX@aps.com.
David and Stephen, attached are the Part 77 reports for the 3 locations. 1 and 2 were clear. Loc 3 does bust the horizontal surface by 7 feet but could go through public notice and be approved. I can't check IFR effects but I did look at other studies in the vicinity and found that the chances are low there would be any. It's not guaranteed however without running it through our Flight Procedures team.



Thanks, Paul
206-231-2990
<https://log0000.faa.gov>

From: Schlier, David M
Sent: Thursday, July 18, 2019 7:03 AM
To: Paul.Holmquist@faa.gov
Cc: Eich, Stephen K <Stephen.Eich@aps.com>
Subject: FW: FAA requirements & Microsoft Data Center Layout

Good morning Paul, here are 3 pole locations that we are in the siting/planning stage. Per our conversation a few days ago, will you please take a quick look at these and let us know if these locations can be approved and ultimately receive FAA permits. We will obviously submit through the normal process once design is complete for all of the proposed poles in the area.

Location 1 WAPA crossing (north side of Broadway Road, approximately 1,400 feet east of Bullard Road) in Goodyear, AZ:

Latitude: 33°24'23.85"N
Longitude: 112°22'14.13"W
Elevation: 930'
Pole Height: 180'

(TOTAL ELEVATION: 930' + 180' = 1,110')

Location 2 W Van Buren Road & N Central Ave, Goodyear, AZ:

Latitude: 33°26'59.84"N
Longitude: 112°20'58.17"W
Elevation: 982'
Pole Height: 130'

(TOTAL ELEVATION: 982' + 130' = 1,112')

Location 3 N Bullard Ave & N Central Ave N Bullard Ave & Roosevelt Street, Goodyear, AZ:

Latitude: 33°27'25.45"N
Longitude: 112°22'29.99"W
Elevation: 996'
Pole Height: 130'

(TOTAL ELEVATION: 982' + 130' = 1,126')

Based on the Phoenix Goodyear Airport's plans, we would not be penetrating the airspace (anything within the total elevation of 1,119')

Thank you for your help
Dave

Stakeholder Involvement Exhibit J

- Stakeholder Briefings
 - City of Goodyear
 - FAA, Phoenix Goodyear Airport, City of Phoenix Aviation Department
 - Buckeye Water Conservation and Drainage District
 - City of Avondale
 - Luke Air Force Base
 - ADOT SR30 Development Team
- Landowner Outreach

Devin Petry

From: Noel Carter <ncarter@bwddd.com>
Sent: Monday, August 26, 2019 2:34 PM
To: Devin Petry
Subject: [EXTERNAL] APS transmission line route alternatives

Follow Up Flag: Follow up
Flag Status: Flagged

Mr. Petry,

I am writing to you on behalf of Pioneer 2005 LLC in reference to your letter dated July 18, 2019. Included in your letter was a preferred route and two alternative routes for the Wildcat and Cyclone transmission line projects. Pioneer 2005 LLC will support the preferred route and oppose the two alternates and strongly encourage the Arizona Corporation Commission to grant APS the preferred route. Pioneer 2005 LLC will not be willing to give easement for any other routes and feels that the preferred route has minimal impact on Pioneers property and neighboring properties.

Please contact me if you need any further support.

Noel Carter | General Manager
Buckeye Water Conservation & Drainage District
Pioneer 2005 LLC
205 Roosevelt | Buckeye, Arizona 85326
623-386-2196 | ncarter@bwddd.com

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Stakeholder Involvement Exhibit J

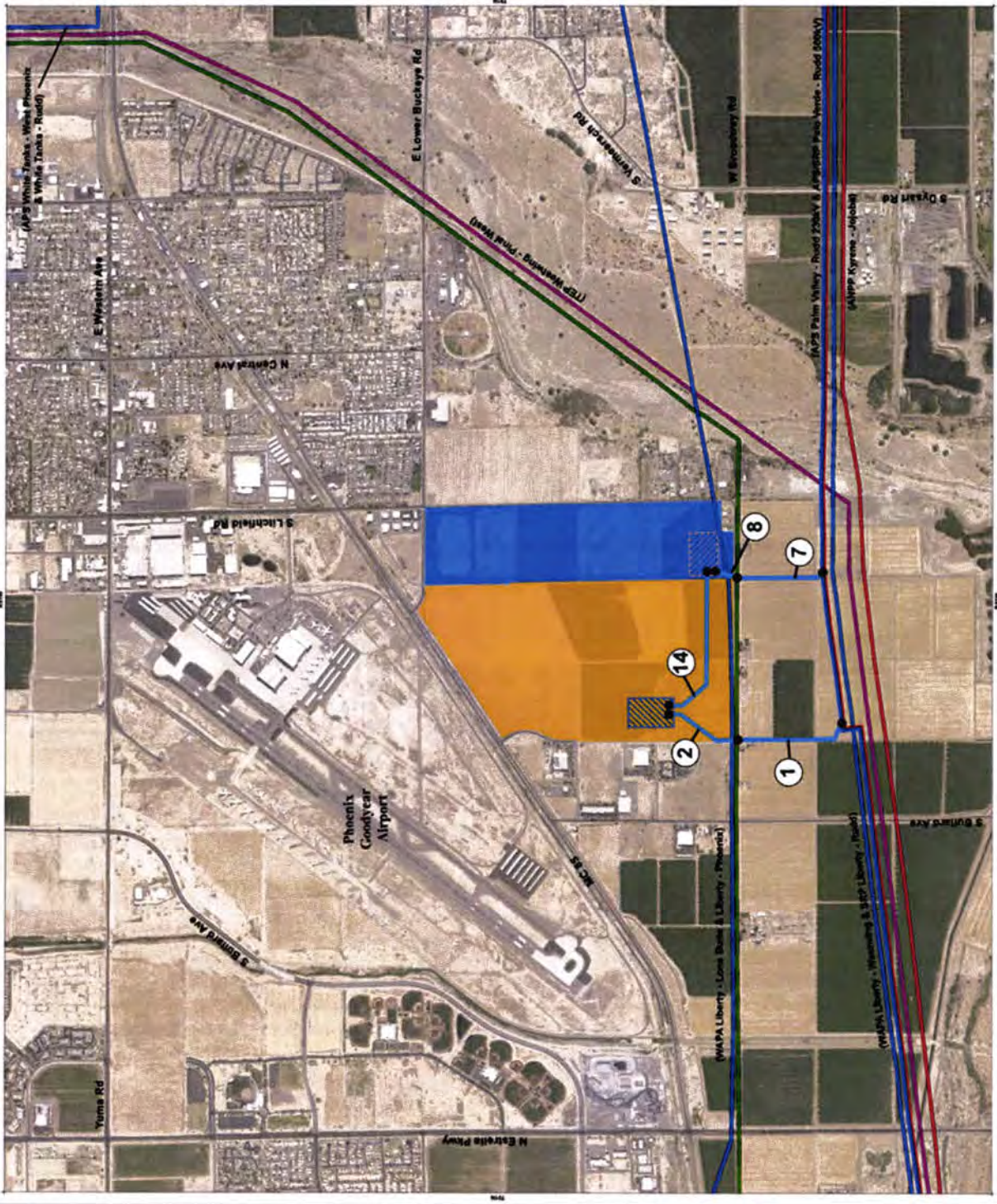
- Stakeholder Briefings
 - City of Goodyear
 - FAA, Phoenix Goodyear Airport, City of Phoenix Aviation Department
 - Buckeye Water Conservation and Drainage District
 - City of Avondale
 - Luke Air Force Base
 - ADOT SR30 Development Team
- Landowner Outreach

Wildcat and Cyclone 230kV Transmission Line Project

Preferred Route

- Project Features**
-  230kV Transmission Line Preferred Route
 -  Wildcat Site
 -  TS15 Substation
 -  Cyclone Site
 -  TS18 Substation
 -  Link Number
 -  Link Node

- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line



August 2019

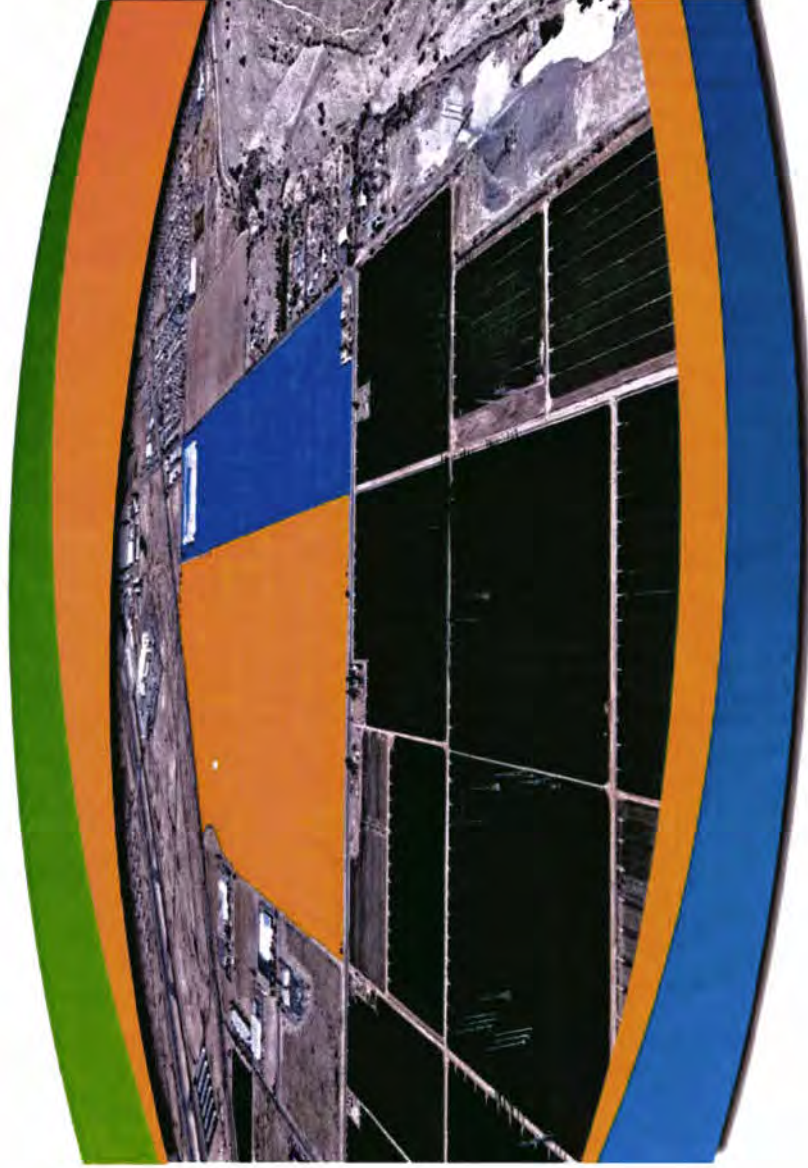




Why the Preferred Route

- Maximizes placement on customers' land
- Minimizes impact on private land
- Shortest route
- Lowest overall cost
- Fewer line crossings

Application for a
**Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project**



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

Submitted by | **Arizona Public Service Company**

August 2019

D. Brad Larsen, P.E.

**Project Manager
Transmission and Facility Siting**

Arizona Public Service Company



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**WILDCAT AND CYCLONE 230KV TRANSMISSION LINE PROJECT
Docket No. L-00000D-19-0196-00183**

WITNESS SUMMARY

**of
Jason Spitzkoff**

September 12, 2019

Mr. Spitzkoff is the Manager for Planning and Engineering, Interconnections Development, and Facility Siting for APS. In this role, he has overseen and directed the analysis of system service options and how to reliably serve the Wildcat and Cyclone data centers which led to the development of the Wildcat and Cyclone 230kV Transmission Line Project (“Project”). Mr. Spitzkoff will provide background on data centers and their unique system requirements along with an overview of the APS service territory and system. He will also describe the purpose and need for the Project and the various facilities required to satisfy the need. He will also present the noise and EMF analysis for the Project. Finally, Mr. Spitzkoff will discuss how the costs for the Project will be paid under the terms of APS’s line extension policy. Mr. Spitzkoff’s testimony will establish that the Project satisfies the need to serve the two data centers and that the Preferred Route is the best route alternative.

More details with respect to Mr. Spitzkoff’s testimony are contained in the presentation slides which have been filed in the docket and provided to the Power Plant and Transmission Line Siting Committee.

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WILDCAT AND CYCLONE 230KV TRANSMISSION LINE PROJECT

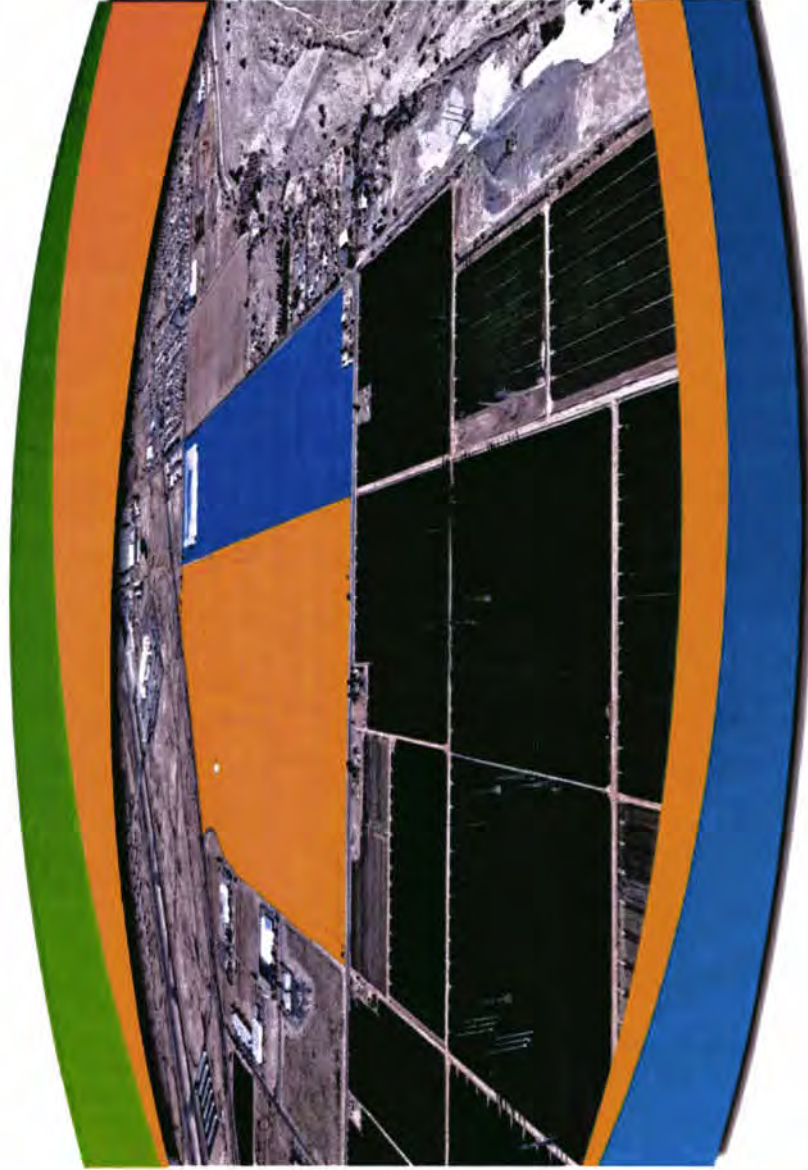
Docket No. L-00000D-19-0196-00183

WITNESS PRESENTATION SLIDES

of

JASON SPITZKOFF

Application for a
**Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project**



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

Submitted by | **Arizona Public Service Company**

August 2019

Wildcat and Cyclone 230kV Transmission Line Project

**Application for a Certificate
of Environmental Compatibility**

Case No. 183

Prepared for

Arizona Power Plant and Transmission Line Siting Committee





Jason Spitzkoff

Manager of Transmission Planning,
Interconnections Development,
and Facilities Siting

Arizona Public Service Company







Witness Background

- **Education**
 - Rutgers University
 - Bachelor of Science in Electrical Engineering
 - Bachelor of Arts in Economics
- **Professional Experience**
 - 18+ years with APS
 - 14 years as a Transmission Planning Engineer
 - 3.5 years as Supervisor of Transmission Planning and Engineering
 - Currently Manager of Transmission Planning, Interconnections Development, and Facilities Siting

R3

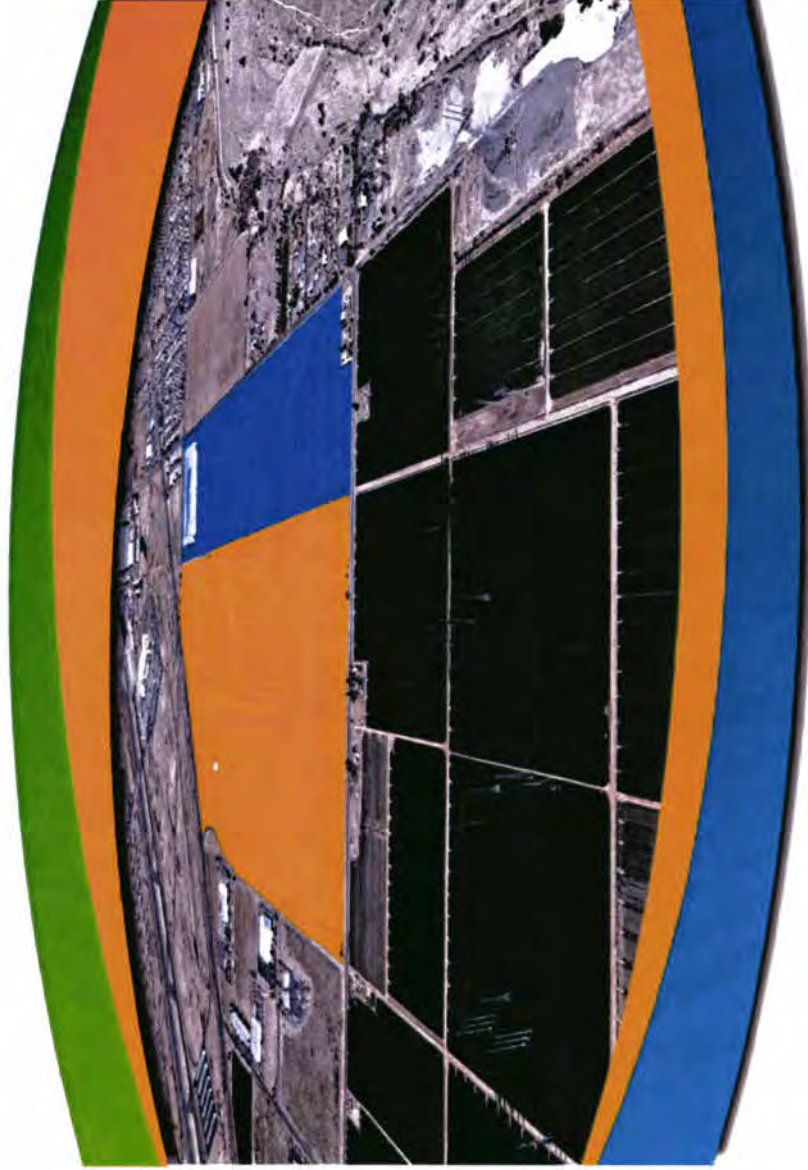




Witness Background

- Professional Experience
 - Member of various WECC committees
 - Member of WestConnect’s Planning Management Committee
 - Member of NERC Planning Committee
 - APS presenter for multiple BTAs
 - Testified in Line Siting Case No. 136

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

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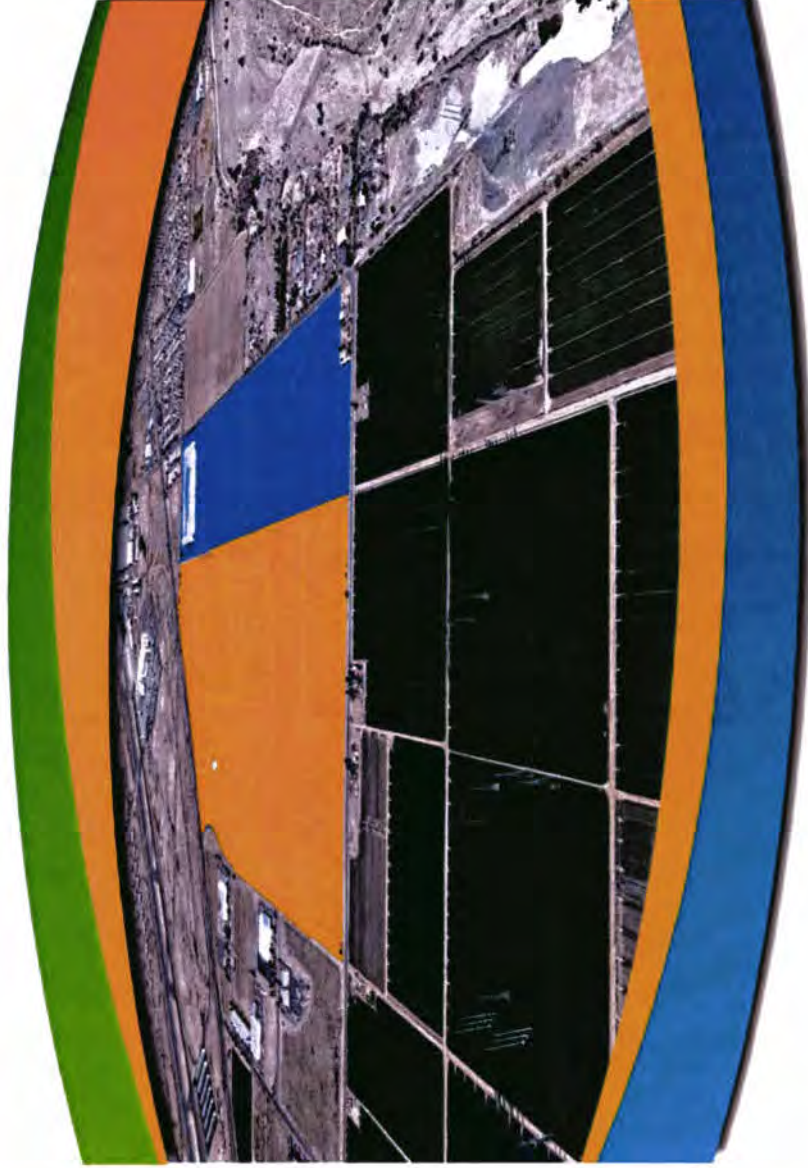
August 2019



Outline of Testimony

- APS Service Territory and Transmission System
- Data centers moving to West Valley
- Regional electric overview
- Purpose and need
- Substation overview
- APS Ten-Year Plan
- Noise and EMF analysis
- Project funding

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



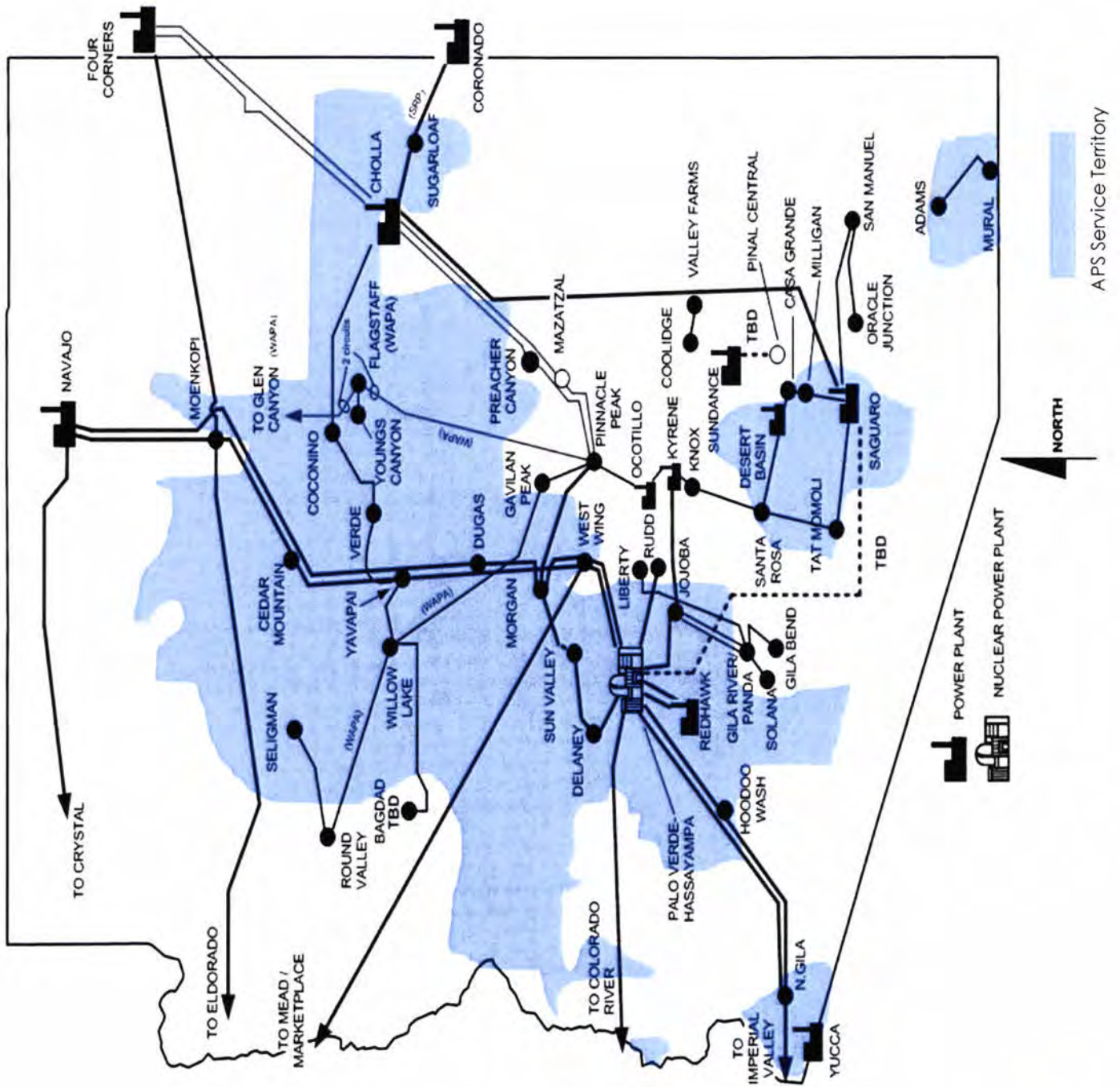
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APS Service Territory and Transmission System

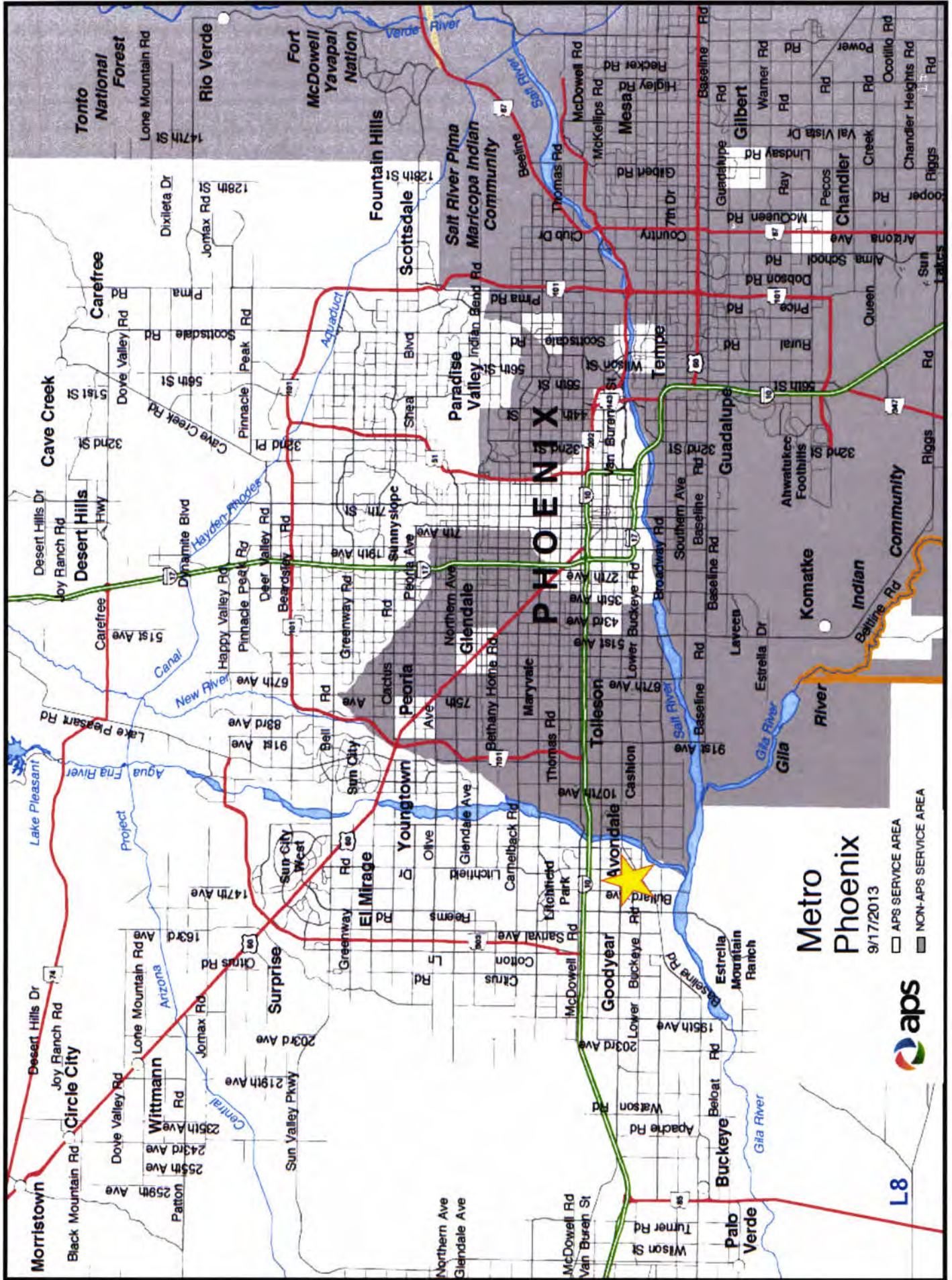






APS Service Territory

- Serving Arizona for over 125 years
- Serves 11 of Arizona's 15 counties
- Encompasses ~35,000 square miles
- More than 34,000 miles of transmission lines
- 1.2 million retail and wholesale customers
- Peak demand was 7,367MW (2017)

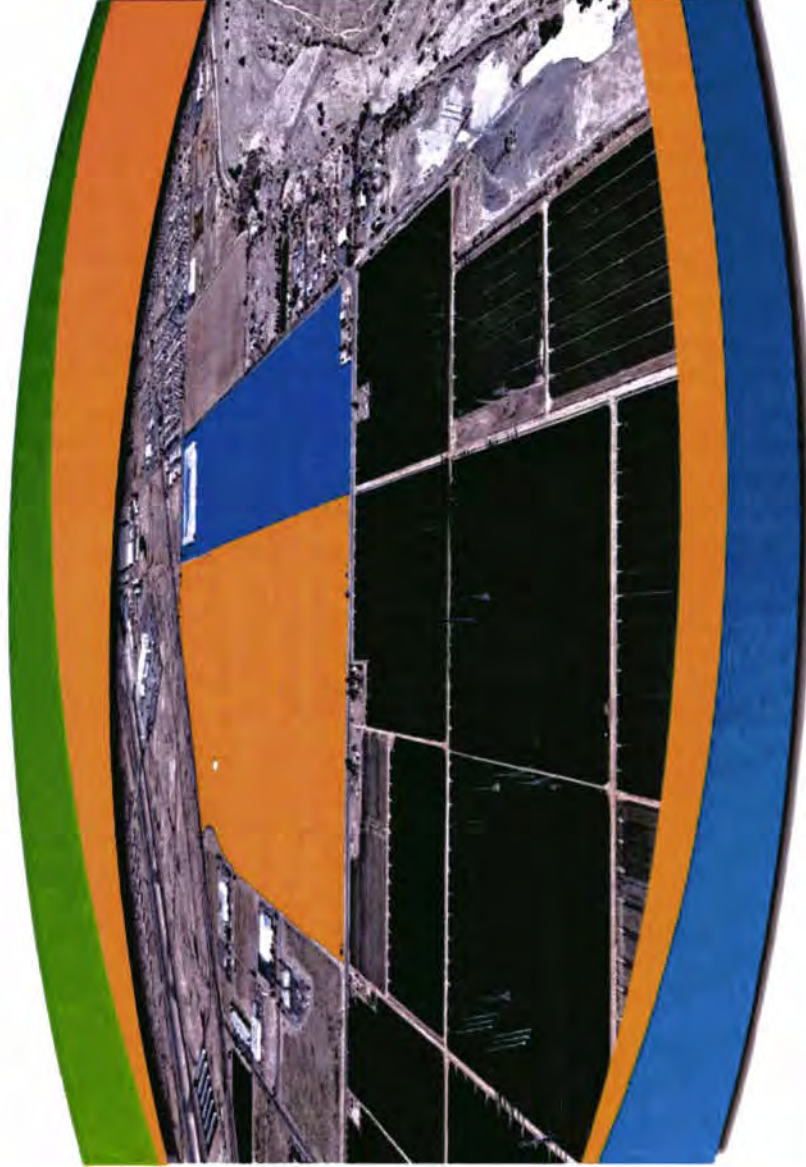




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Data Centers Moving to West Valley


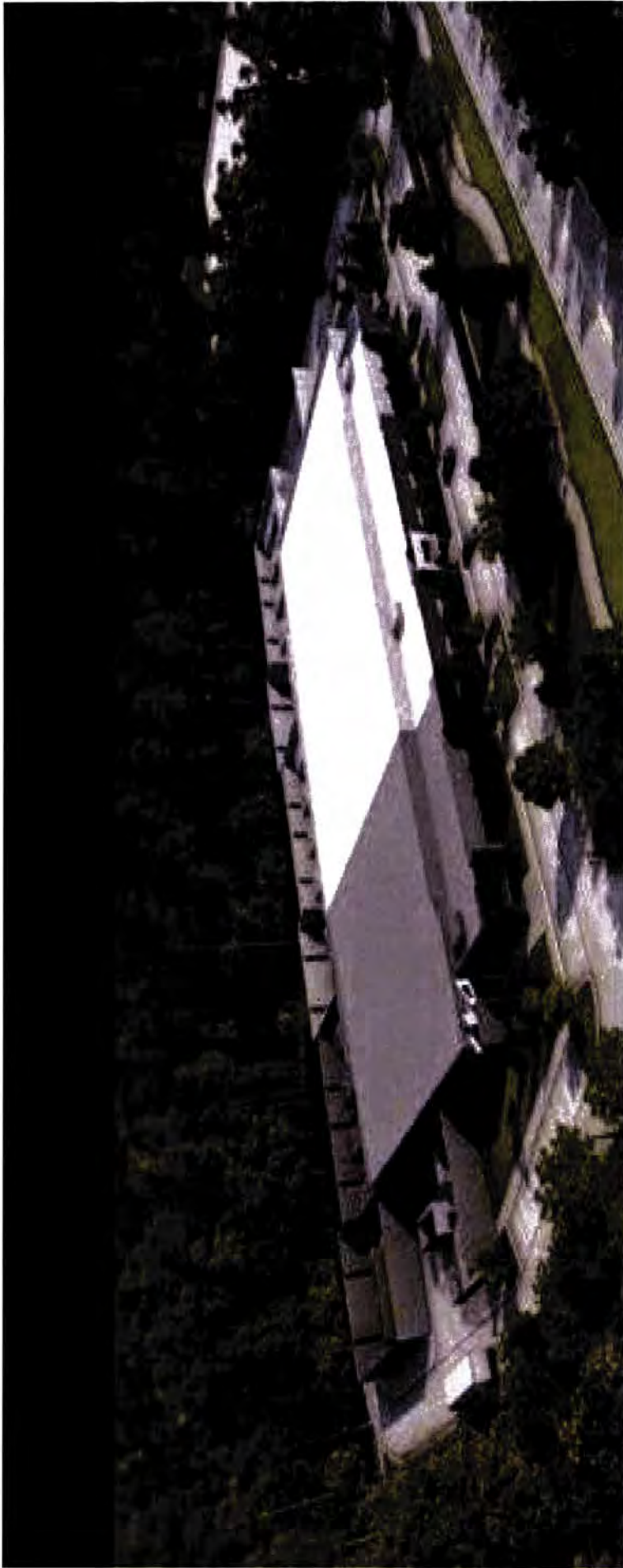




L10

Data Center Key Features

- Data centers house high speed computing and networking equipment for the purpose of collecting, storing, processing, and distributing large amounts of data
- Demand for data centers is growing partly due to increased shift to “The Cloud”
- Data centers may support private and public purposes



STREAM
DATA CENTERS



A Look Inside a Data Center

- Stream Data Center Houston I – The Woodlands Data Center

Project Region

Wildcat and Cyclone 230kV Transmission Line Project

Project Features

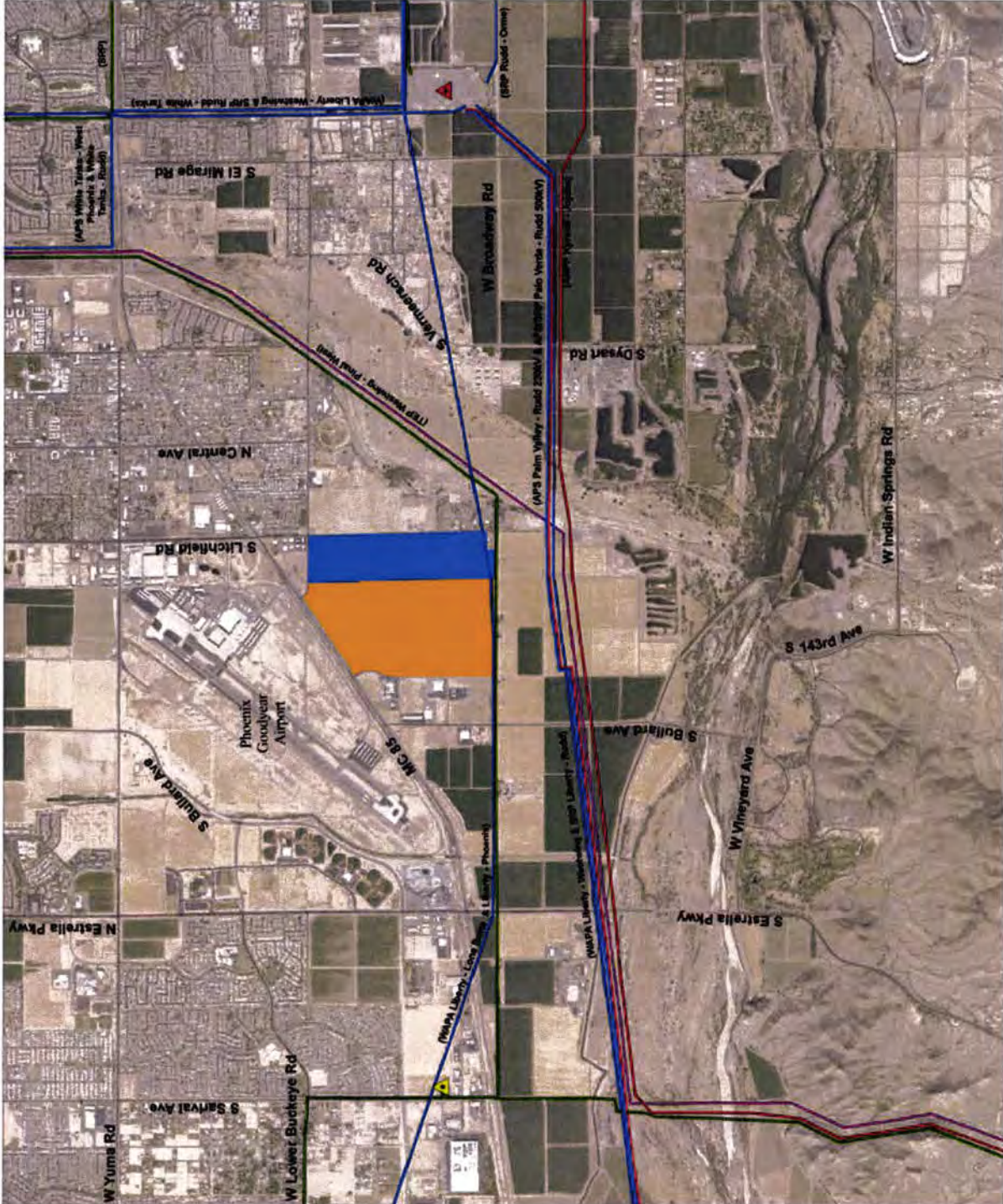
- Wildcat Site
- Cyclone Site

Existing Transmission Facilities

- 69kV Substation
- 500/230kV Substation
- 69kV Transmission Line
- 230kV Transmission Line
- 345kV Transmission Line
- 500kV Transmission Line



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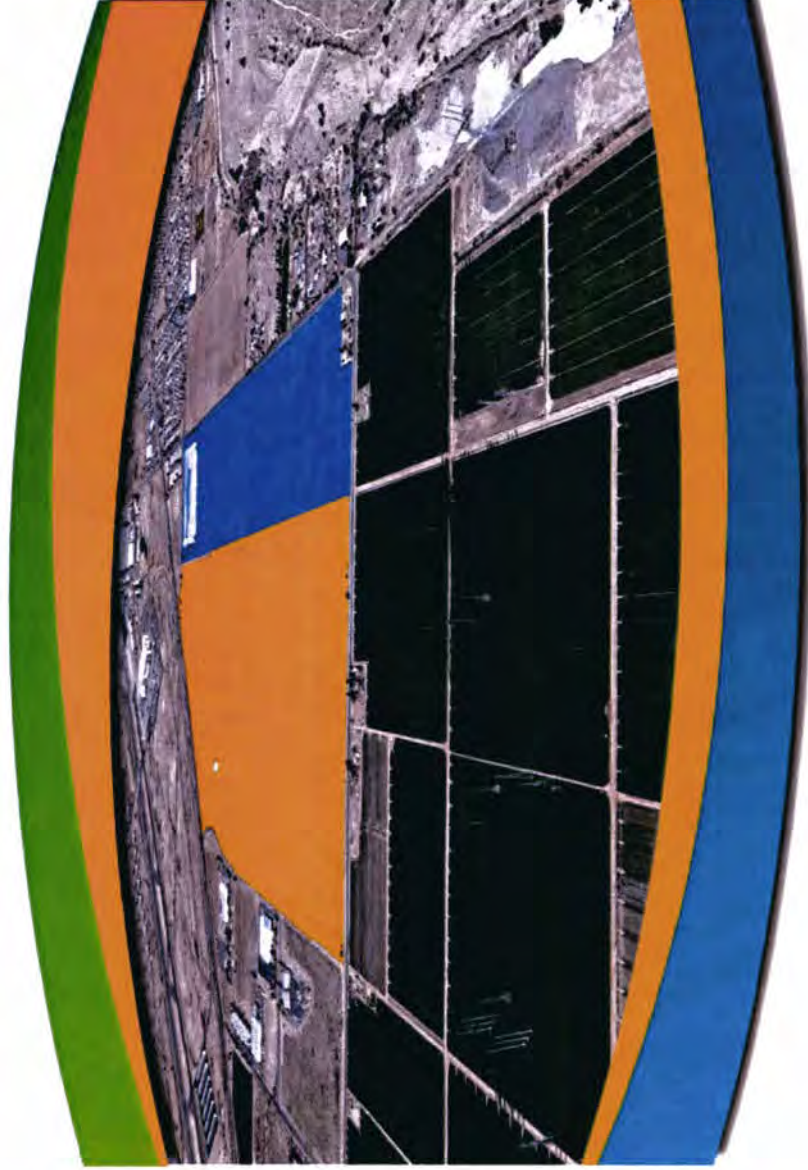
L12



Why the Greater Phoenix Region?

- “A pro business environment with a great sales tax incentive program, low risk of natural disaster and low latency to major markets on the West Coast, Midwest and Texas...” - Robert Kennedy, co-managing partner of Stream Data Centers
- “Arizona has been increasingly embracing the technology industry with a pool of growing talent, an affordable quality of life for employees...” - Brian Janous, GM of Energy and Sustainability for Microsoft
- Highly reliable, low-cost power
- Availability of large-scale developable land

Application for a
**Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project**



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

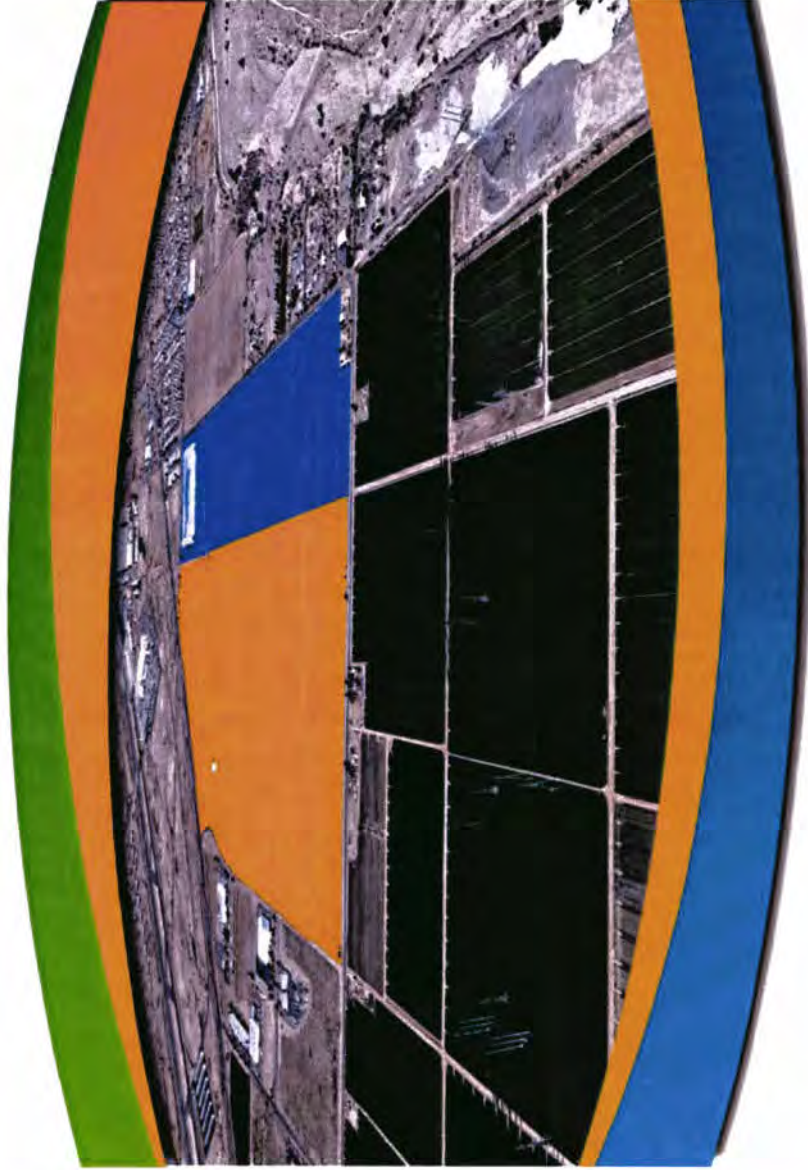
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Regional Benefits

- “This partnership is a true benefit for us all, not only bringing high-wage jobs to our talented workforce but also prompting other tech companies to follow suit.” - Goodyear Mayor Georgia Lord
- “The Microsoft datacenter campuses benefit the City and region by investing millions in our economy, creating more than a thousand construction jobs and hundreds of permanent, high paying tech jobs that will improve the quality-of-life and opportunity for residents and the state.” - El Mirage Mayor Alexis Hermosillo

Application for a
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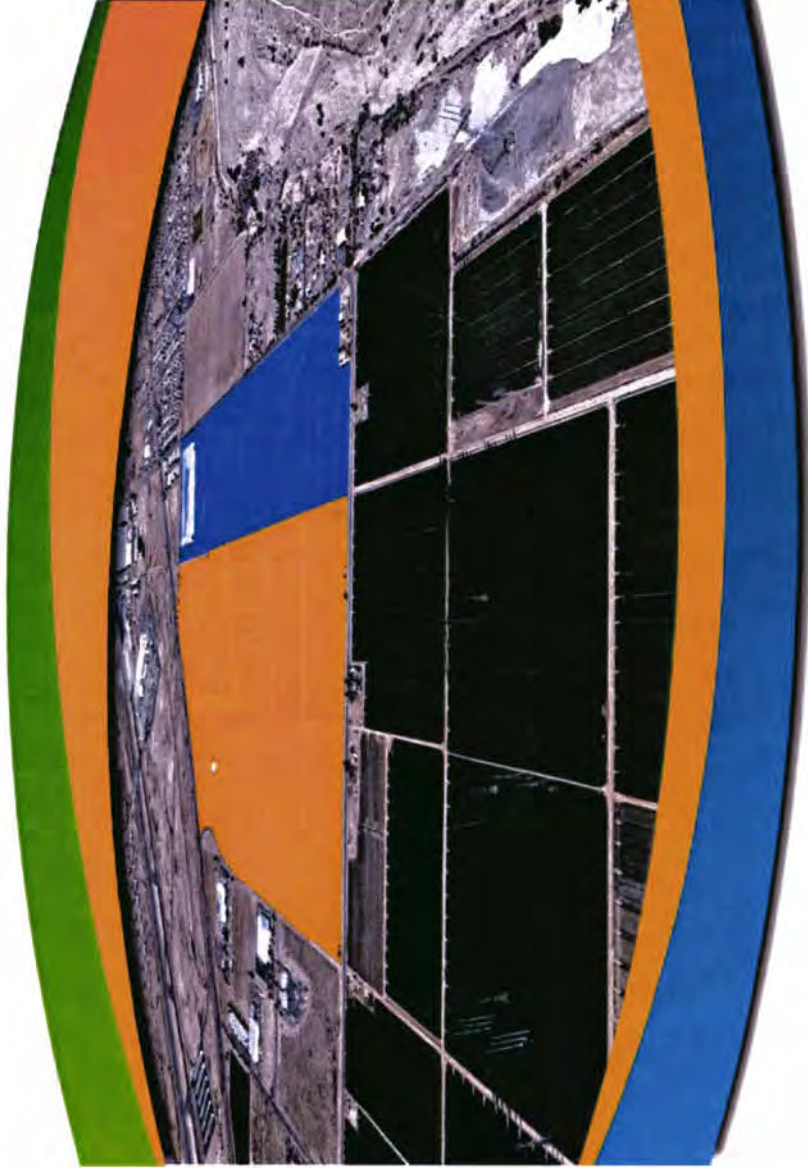
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Regional Benefits

- “This is big news for both the West Valley and the entire State of Arizona. When a global leader like Microsoft chooses to invest hundreds of millions of dollars into three cutting-edge data center operations in our communities, we know our work to create the best environment for innovative businesses is paying off.” – Arizona Governor Doug Ducey

Application for a
**Certificate of Environmental Compatibility
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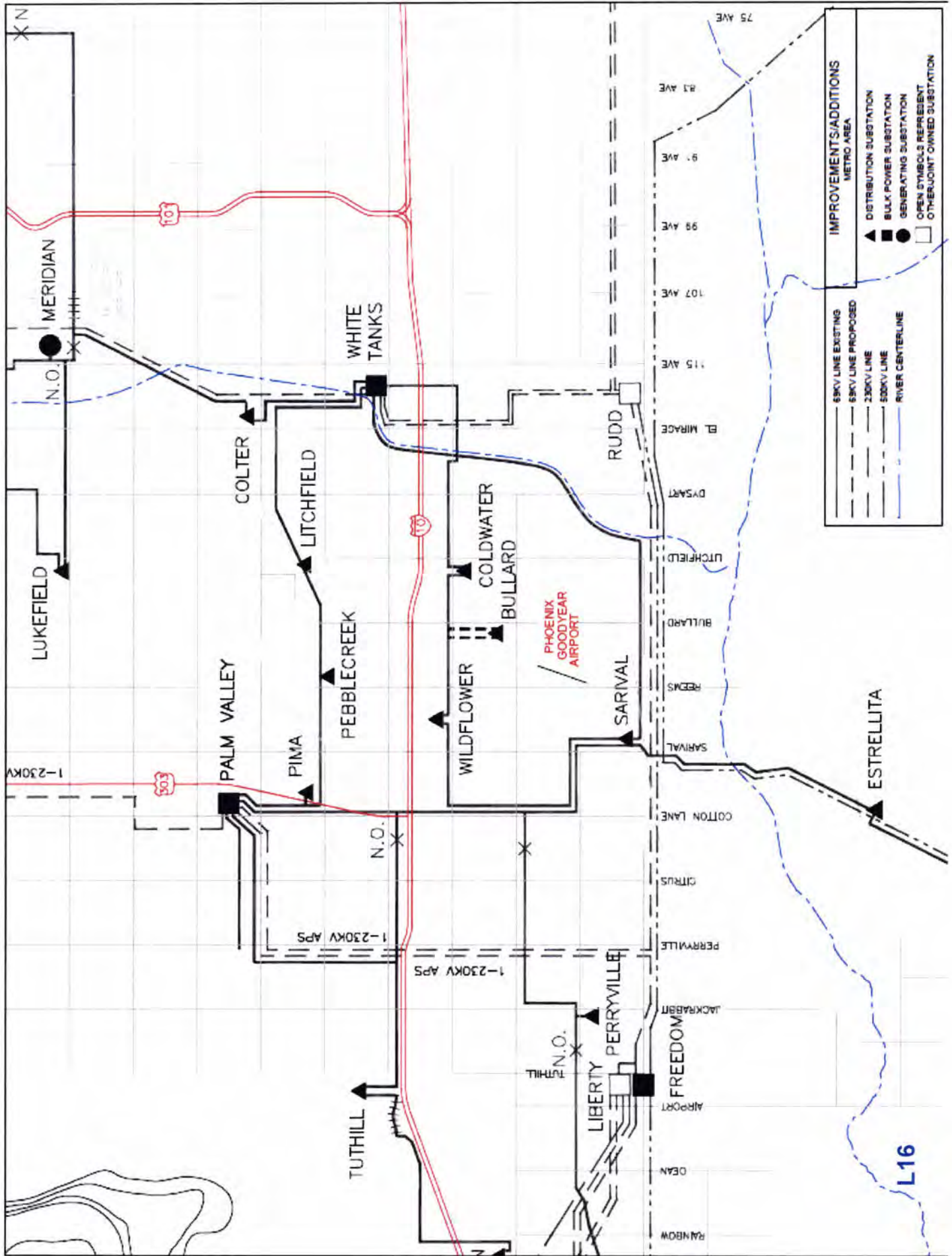
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West Valley Transmission System

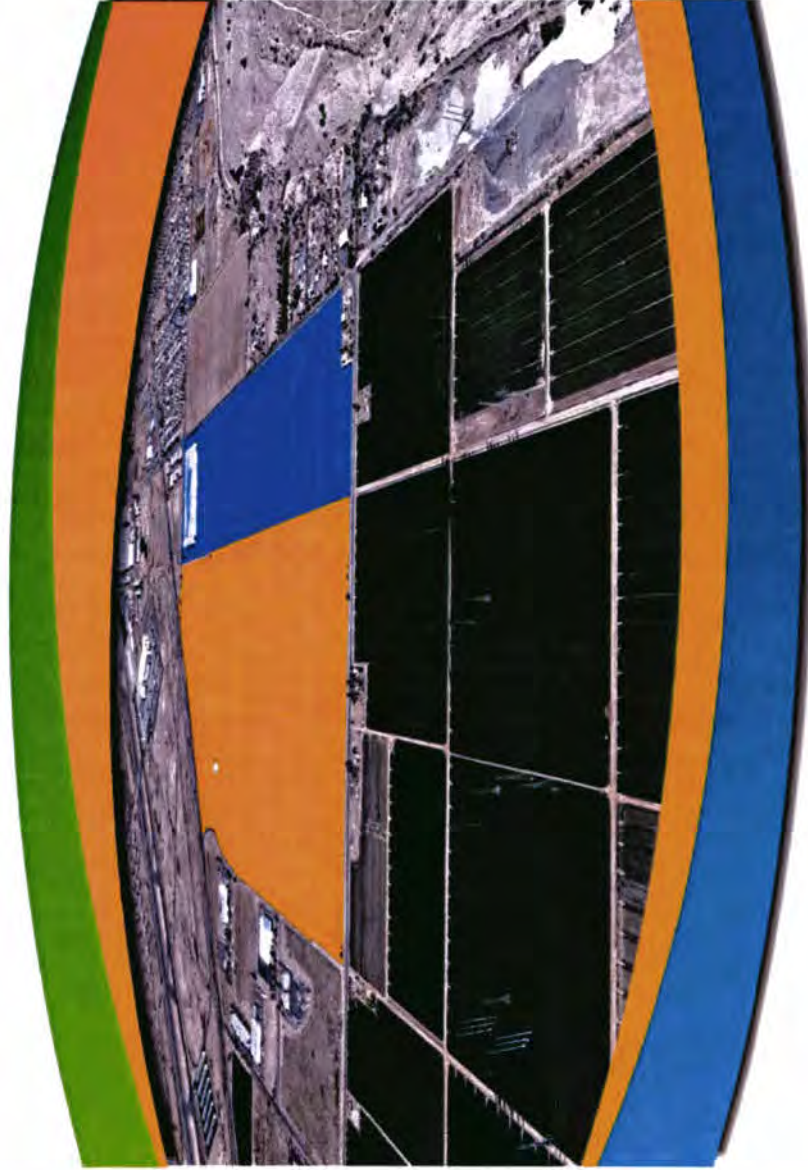




Existing Facilities

- One 500/230kV substation (Rudd)
- Two 230/69/12kV substations (Palm Valley and White Tanks) plus a 3rd under construction (Freedom)
- Three main 69kV lines provide service to 8 additional 69/12kV substations (Bullard still under construction)
- Typical APS 69/12kV substations can serve about 90MW of load at full 3 transformer build-out

Application for a
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
Purpose and Need









Project Region

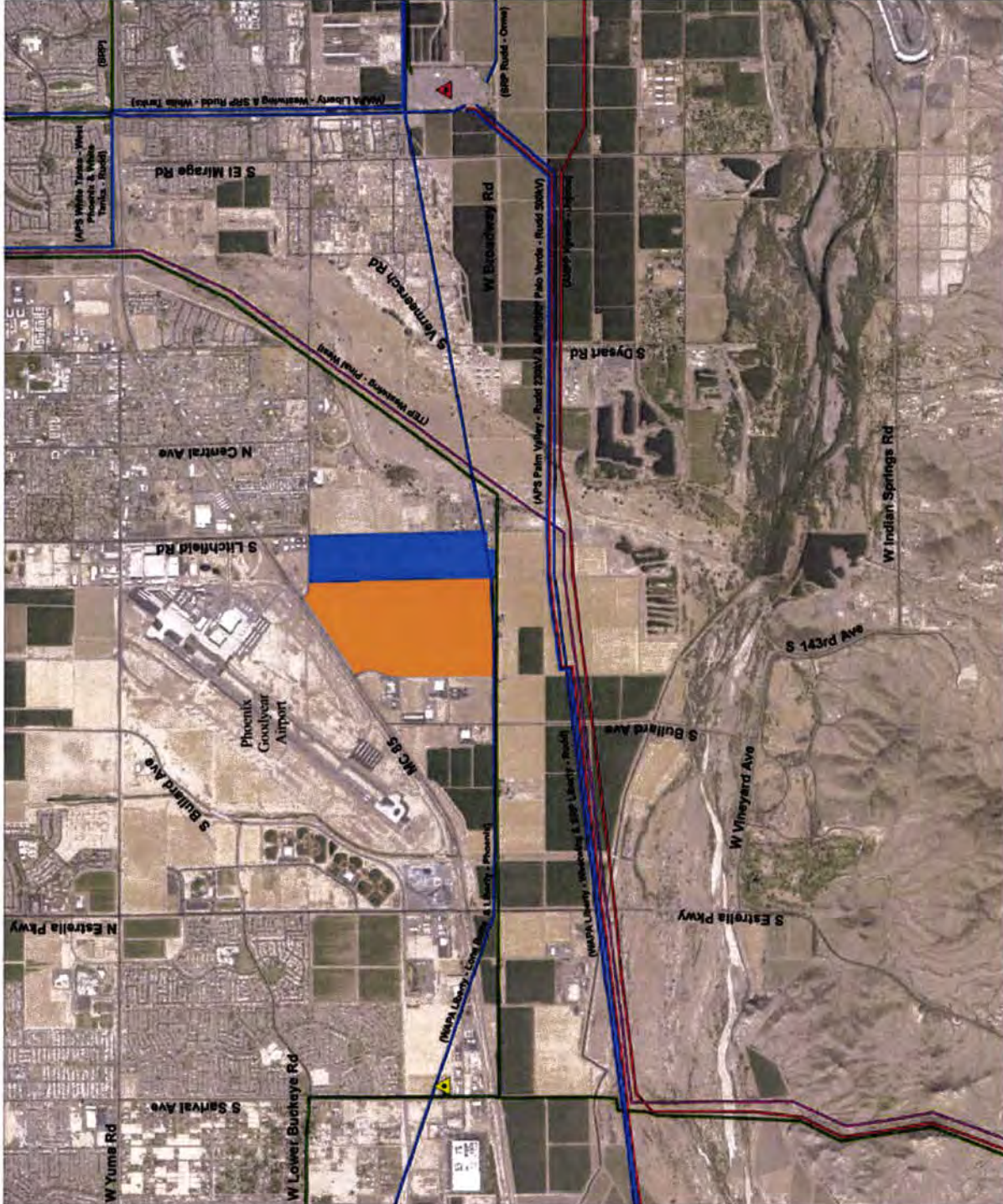
Wildcat and Cyclone 230kV Transmission Line Project

Project Features

-  Wildcat Site
-  Cyclone Site

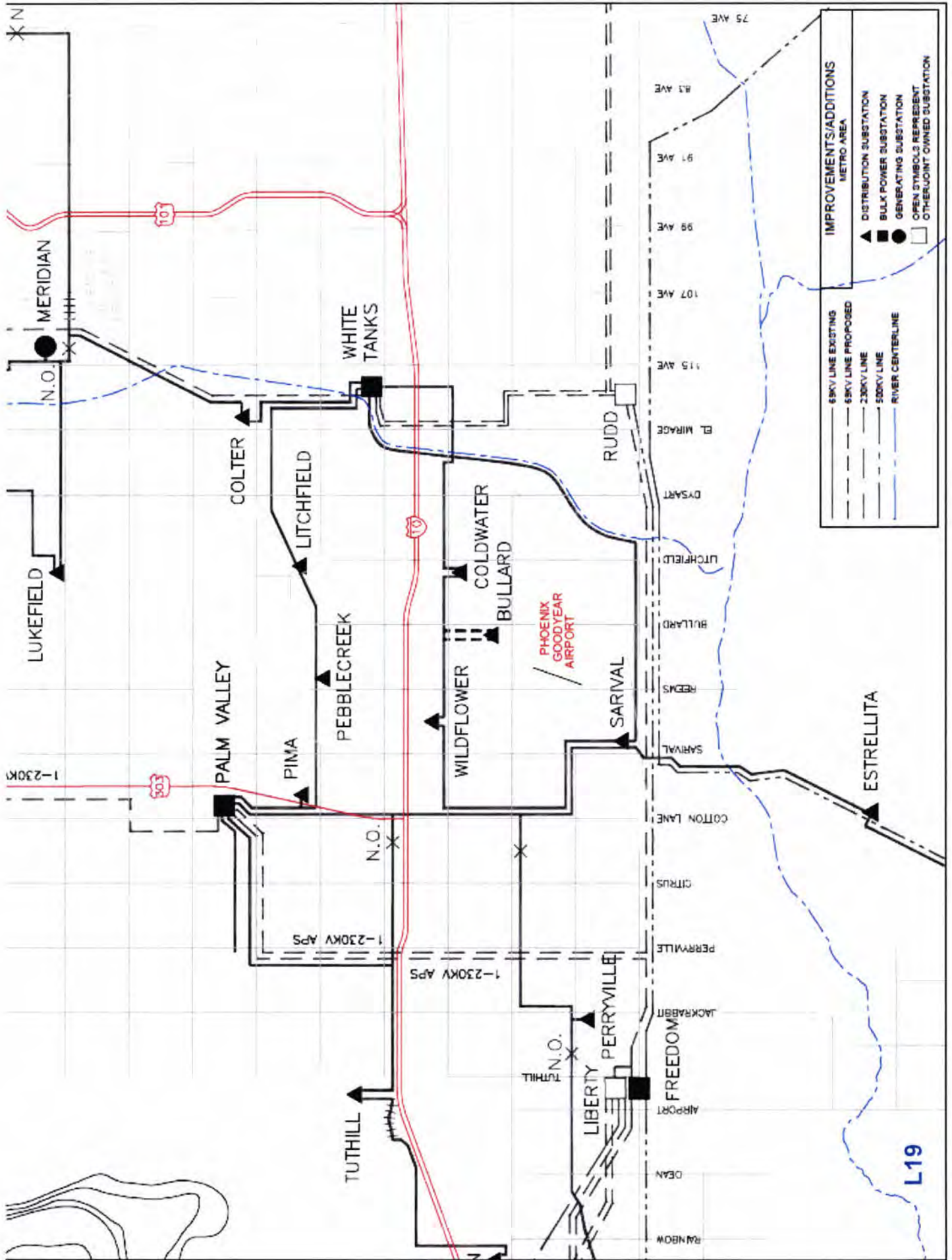
Existing Transmission Facilities

-  69kV Substation
-  500/230kV Substation
-  69kV Transmission Line
-  230kV Transmission Line
-  345kV Transmission Line
-  500kV Transmission Line



Purpose and Need

- Serve new data center load in Goodyear
 - Wildcat (270MW at full build-out)
 - Cyclone (350MW at full build-out)
- Data centers present high load increases
 - Estimated Goodyear area 2019 peak demand 467MW
- 230kV facilities needed to serve loads of this size
 - Initial service can be handled from the 69kV system
 - Limited to ~50MW of load for each project







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Wildcat and Cyclone 230kV Transmission Line Project

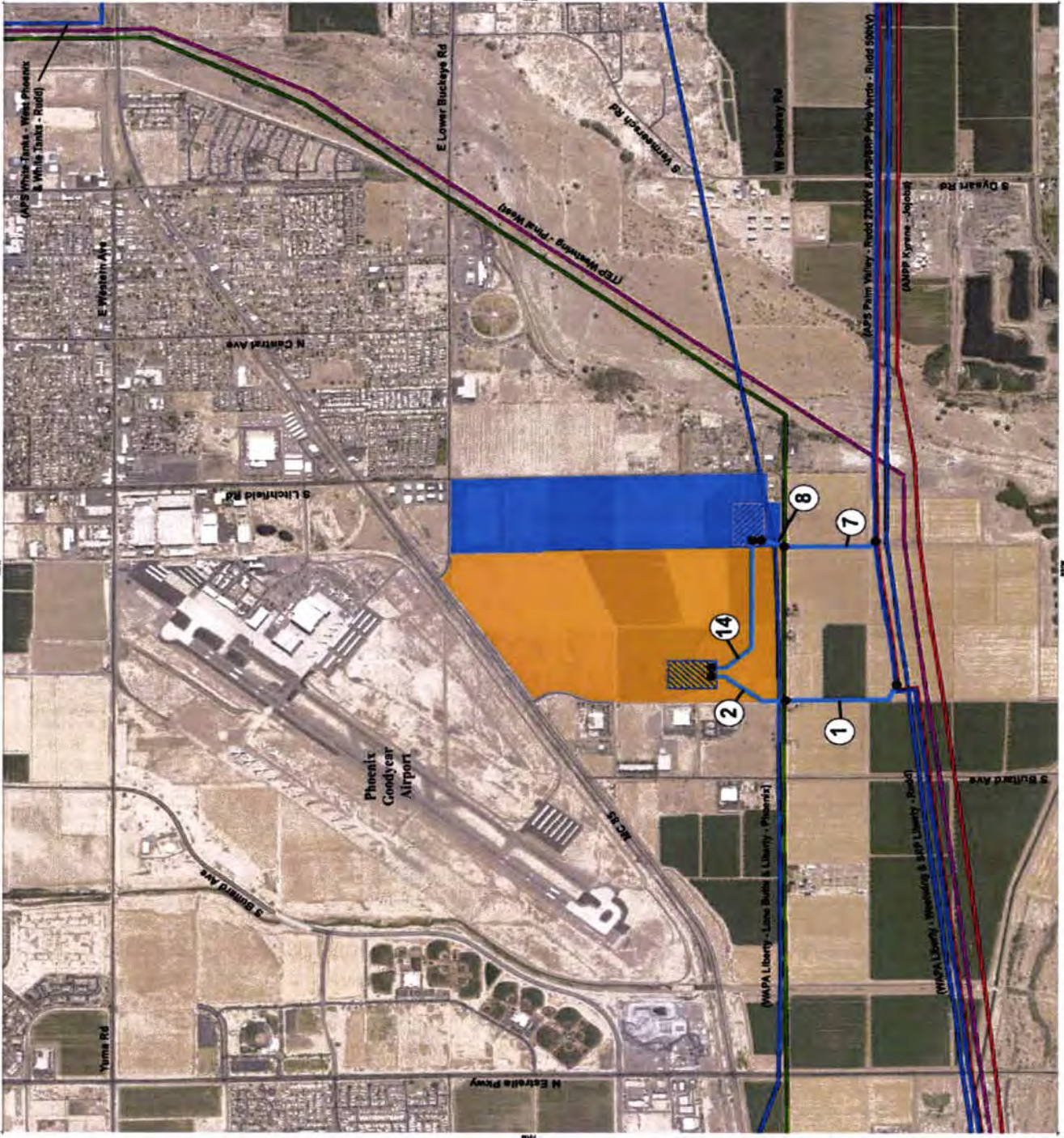
Preferred Route

- Project Features**
-  230kV Transmission Line Preferred Route
 -  Wildcat Site
 -  TS15 Substation
 -  Cyclone Site
 -  TS18 Substation
 -  Link Number
 -  Link Node

- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line



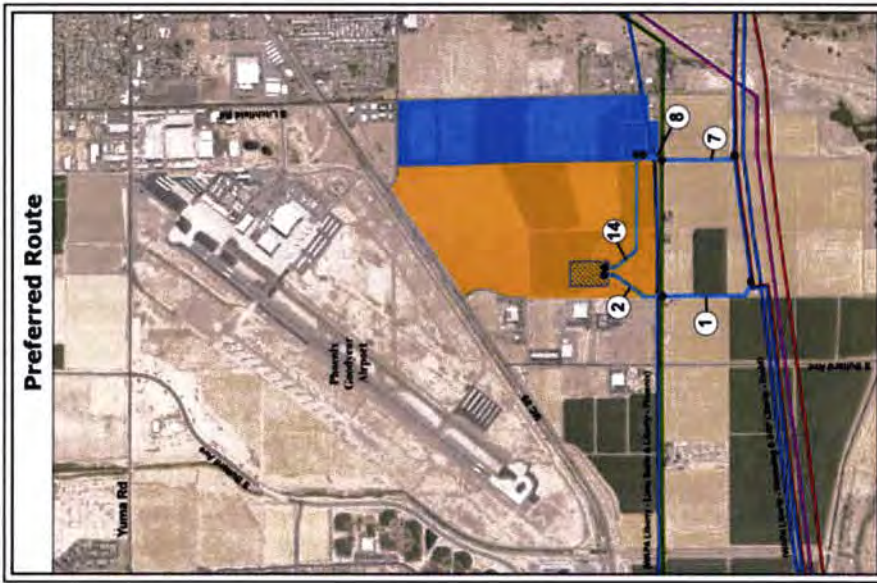
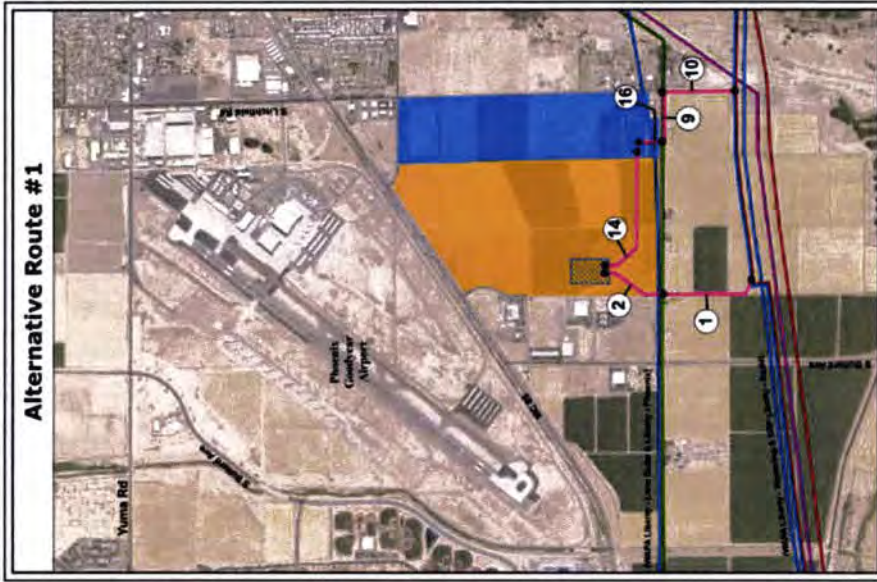
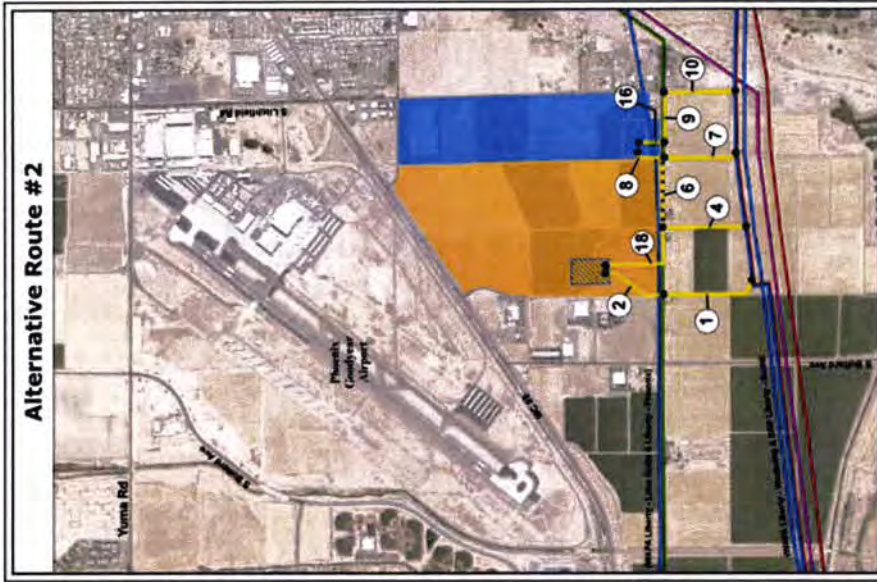
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L20

Purpose and Need

- Serve new data center load in Goodyear
 - Wildcat (270MW at full build-out)
 - Cyclone (350MW at full build-out)
- Data centers present high load increases
 - Estimated Goodyear area 2019 peak demand 467MW
- 230kV facilities needed to serve loads of this size
 - Initial service can be handled from the 69kV system
 - Limited to ~50MW of load for each project



Wildcat and Cyclone 230kV Transmission Line Project Preferred Route and Alternative Routes

Existing Transmission Facilities

- 69kV Transmission Line
- 230kV Transmission Line
- 345kV Transmission Line
- 500kV Transmission Line

Project Features

- 230kV Transmission Line Preferred Route
- 230kV Transmission Line Alternative Route #1
- 230kV Transmission Line Alternative Route #2
- 230kV Transmission Line Alternative Sub-Route
- Wildcat Site
- TS15 Substation
- Cyclone Site
- TS18 Substation
- Link Number
- Link Node



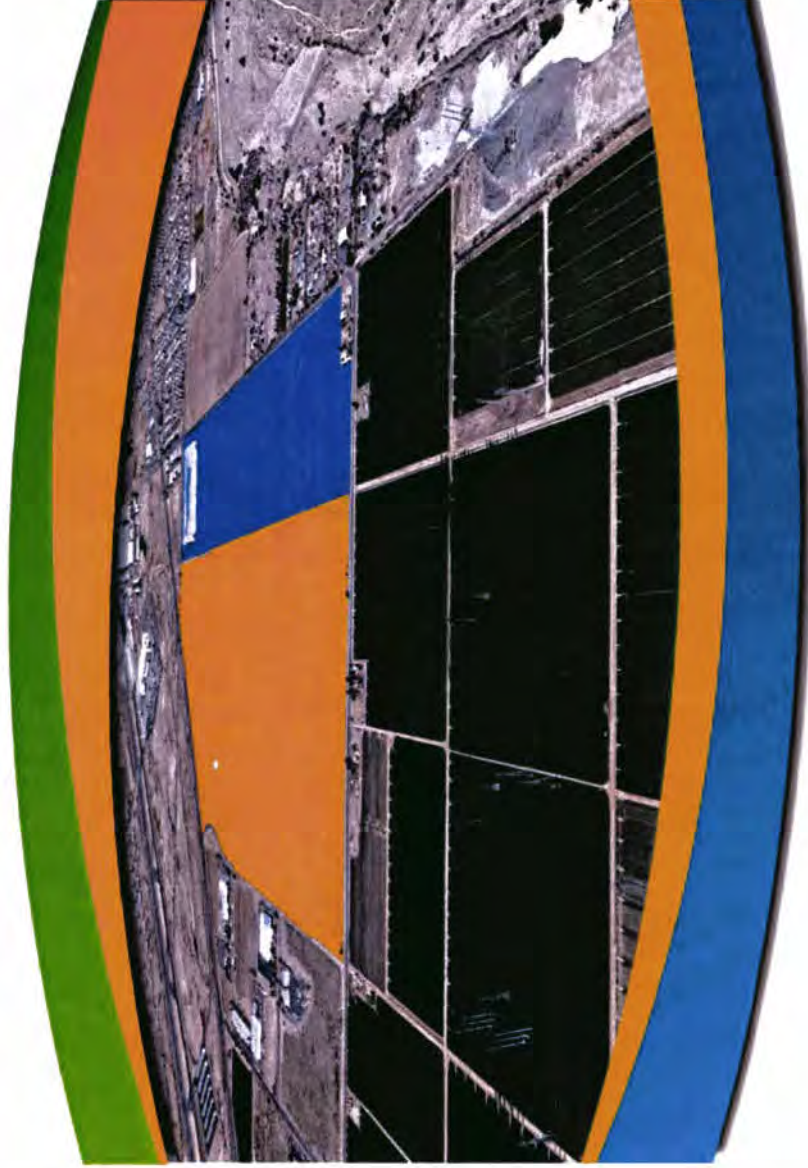
August 2019



Project Design

- Service from 230kV system meets long term needs for each site
 - Reliability of 69kV and 230kV systems are maintained with service from the 230kV
 - 230kV is designed to handle larger power transfers
 - Minimizes impacts to the 69kV system
- Preferred route and alternatives meet the need
 - No load loss for single contingencies

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

Submitted by | **Arizona Public Service Company**



August 2019


Substation Overview



Wildcat and Cyclone 230kV Transmission Line Project

Preferred Route

- Project Features**
-  230kV Transmission Line Preferred Route
 -  Wildcat Site
 -  TS15 Substation
 -  Cyclone Site
 -  TS18 Substation
 -  Link Number
 -  Link Node

- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line



August 2019



L23



Substation Overview

- Substations will be located within data center sites
 - TS15 site will be behind Microsoft perimeter
 - TS18 site will be at southern end of Stream property
 - Each substation included in overall site development plans through the City of Goodyear
 - Control houses and perimeter walls specifically permitted with City of Goodyear
- 230/69/34.5kV substation for each site

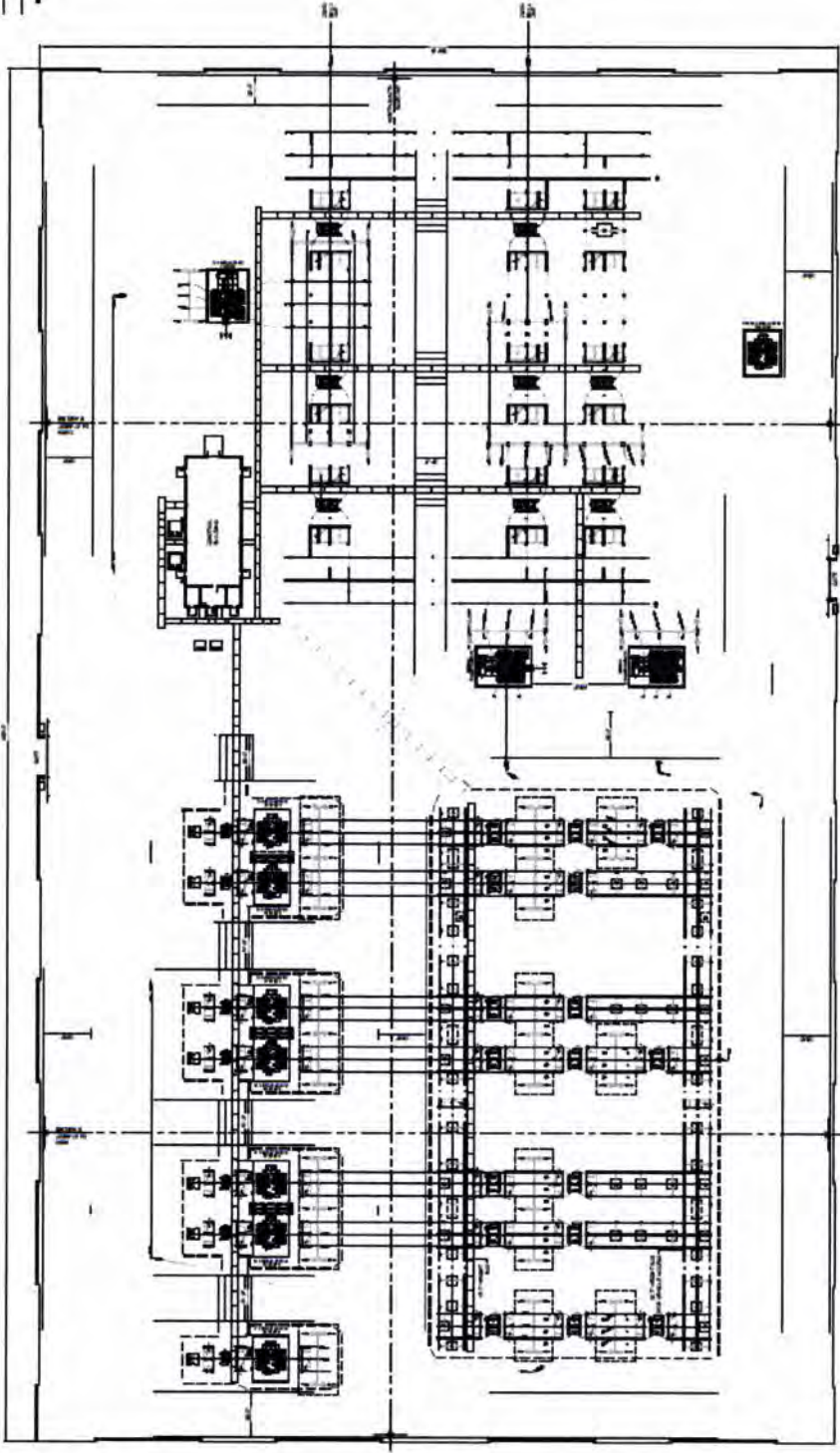
REFERENCE ONLY

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PROJECT NO. _____
 SHEET NO. _____
 SHEET TOTAL _____
 PROJECT TITLE
PSAULT SUBSTATION
REVISIONS
ULTIMATE PLAN VIEW



G-519330
 PROJECT NO.
 SHEET NO.
 SHEET TOTAL



L24



Substation Overview

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REFERENCE ONLY

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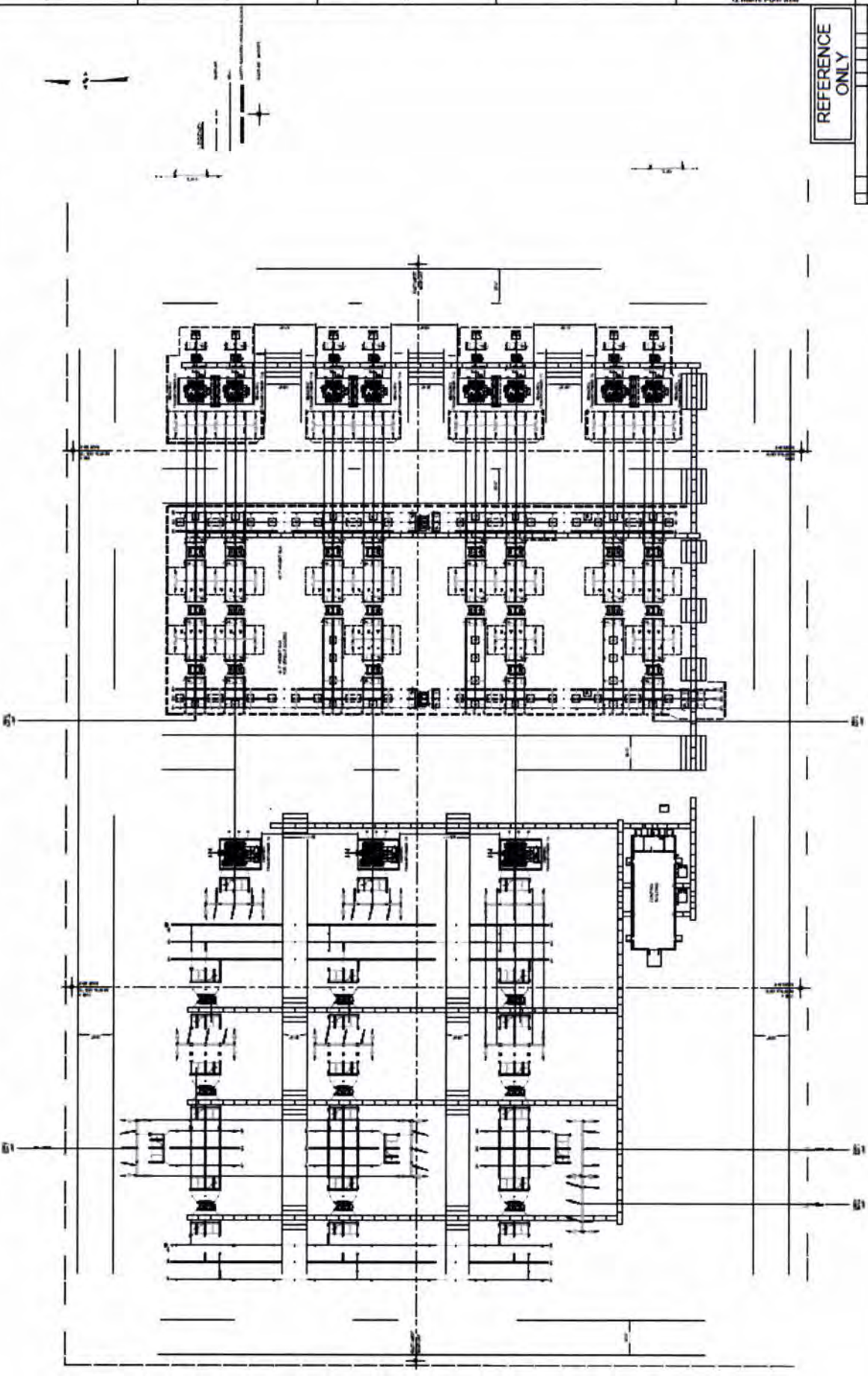
BROADWAY SUBSTATION
ELECTRICAL EQUIPMENT
ULTIMATE PLAN VIEW

PROJECT NO. G-521183

DATE: 11/11/08

BY: [Signature]

CHKD: [Signature]



L25

Nothing is to be construed as a warranty or endorsement by any person or organization for any use other than that for which it is intended.

Substation Overview

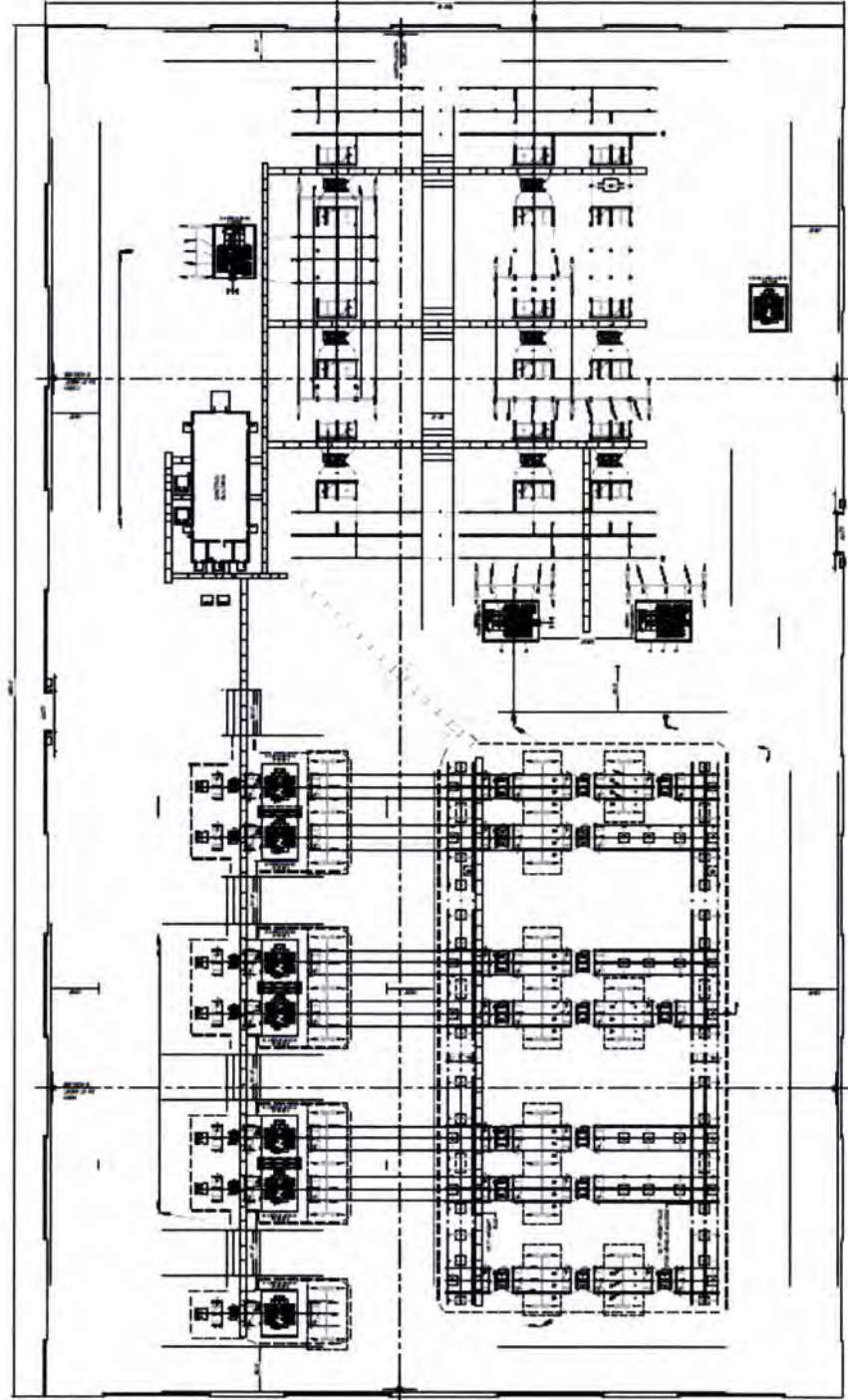
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 - TS15 site will be behind Microsoft perimeter
 - TS18 site will be at southern end of Stream property
 - Each substation included in overall site development plans through the City of Goodyear
 - Control houses and perimeter walls specifically permitted with City of Goodyear
- 230/69/34.5kV substation for each site

REFERENCE ONLY

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aps
 RAILWAY SUBSTATION
 ELECTRICAL EQUIPMENT
 ULTIMATE PLAN VIEW

PROJECT NO. G-519330
 SHEET NO. 1 OF 1

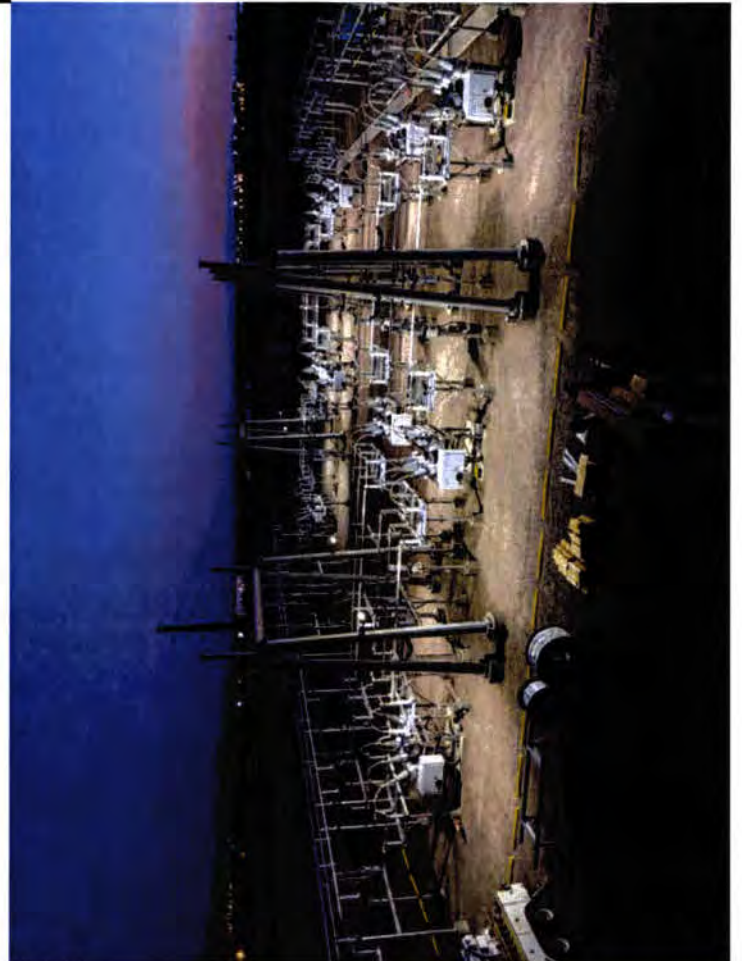


L26



Development Status - Wildcat

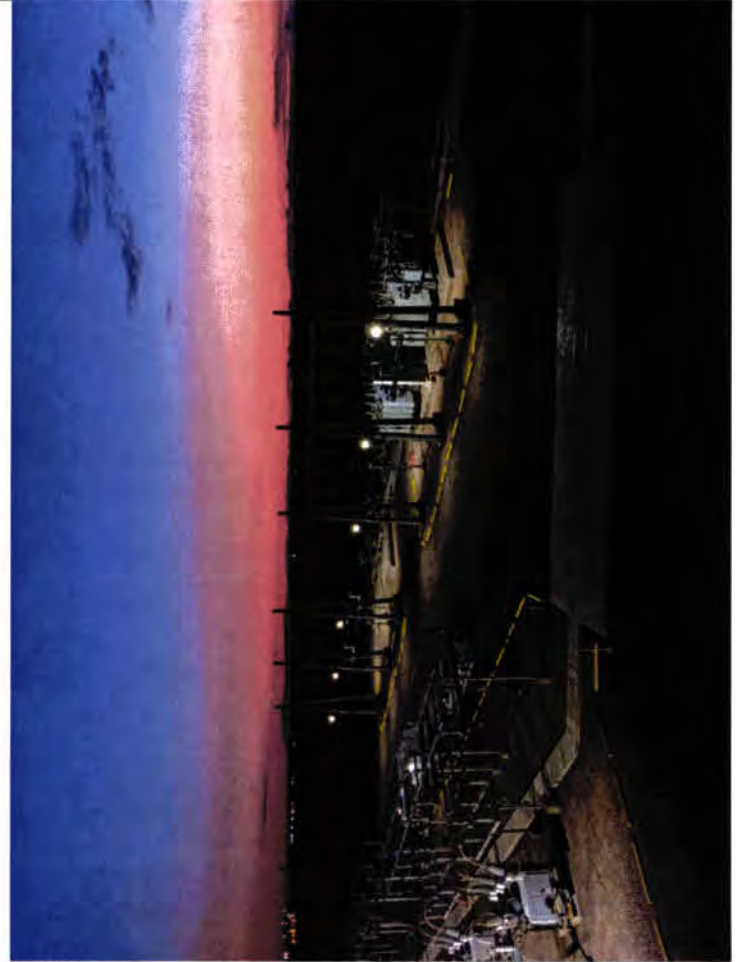
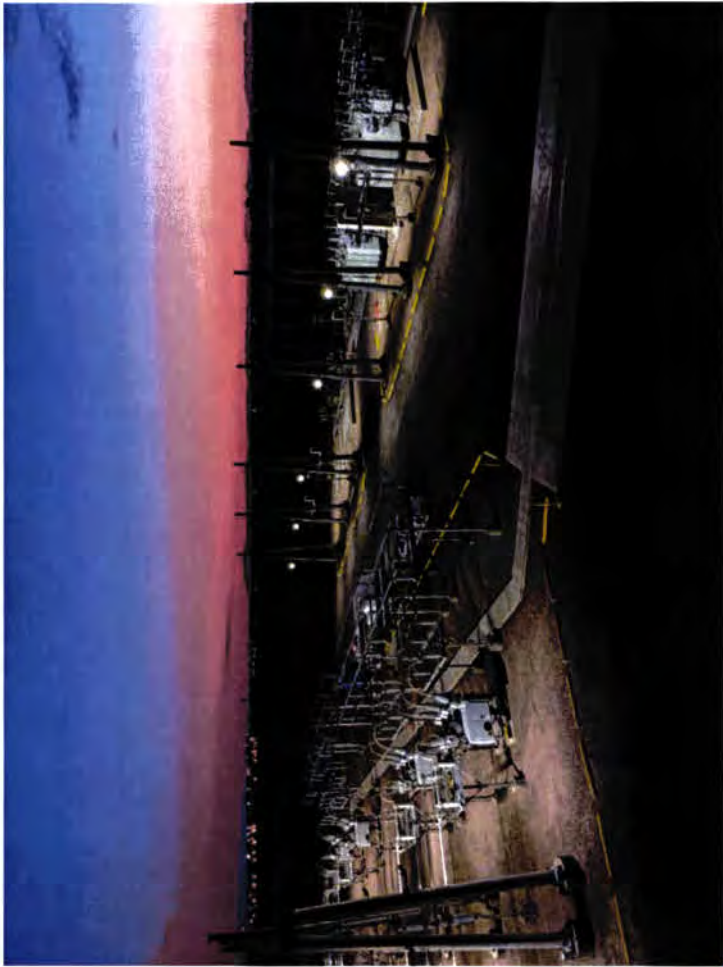
- Early September 2019, APS energized the 69/34.5kV substation
- Looped into the Sarival – White Tanks 69kV line
- Two 69/34.5kV transformers
- Provides service to the first building currently under development
- 230kV development to begin in 2020





Development Status - Wildcat

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REFERENCE ONLY

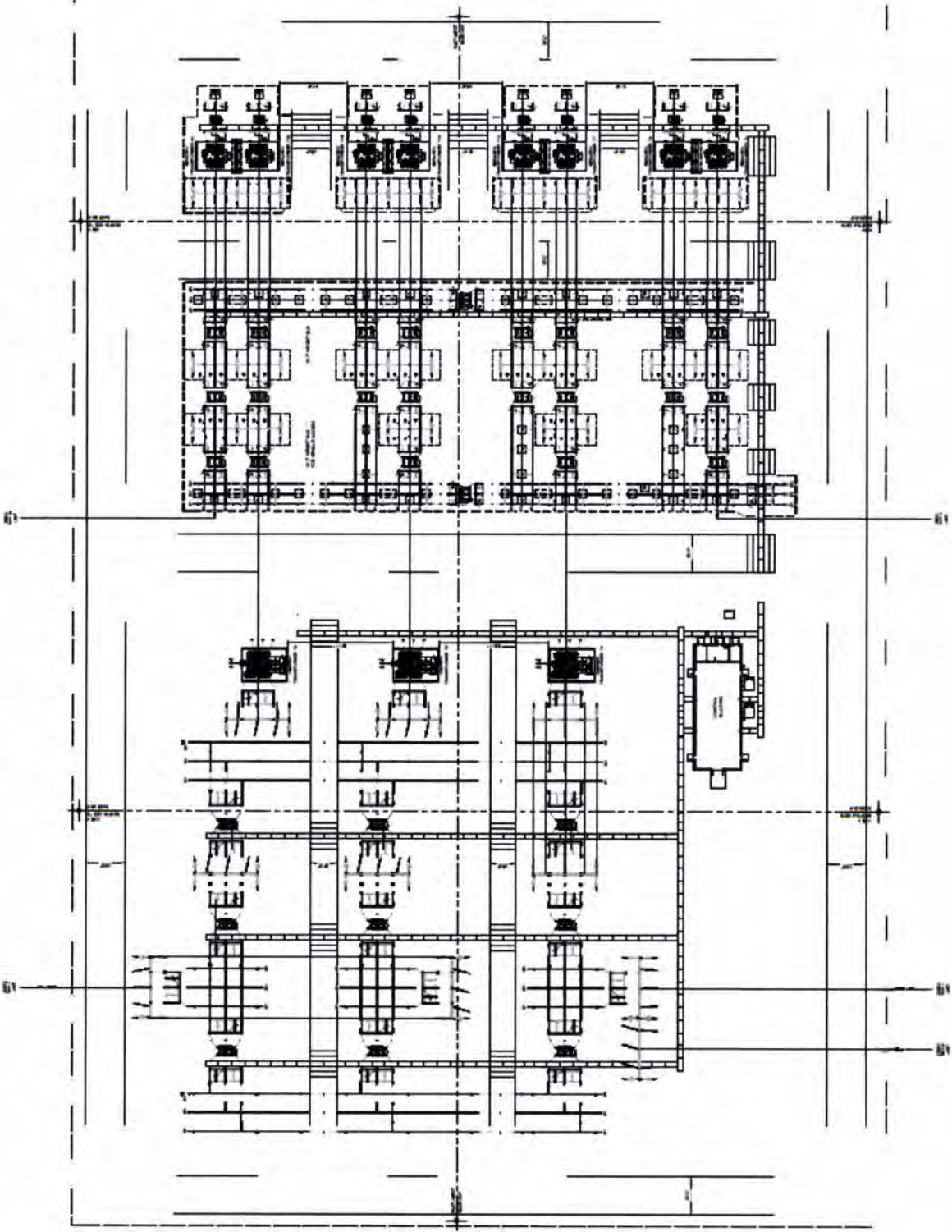
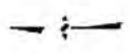
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BROADWAY SUBSTATION
ELECTRICAL EQUIPMENT
ULTIMATE PLAN VIEW



G - 521193

DATE: 11/11/03
BY: [Signature]
CHKD: [Signature]



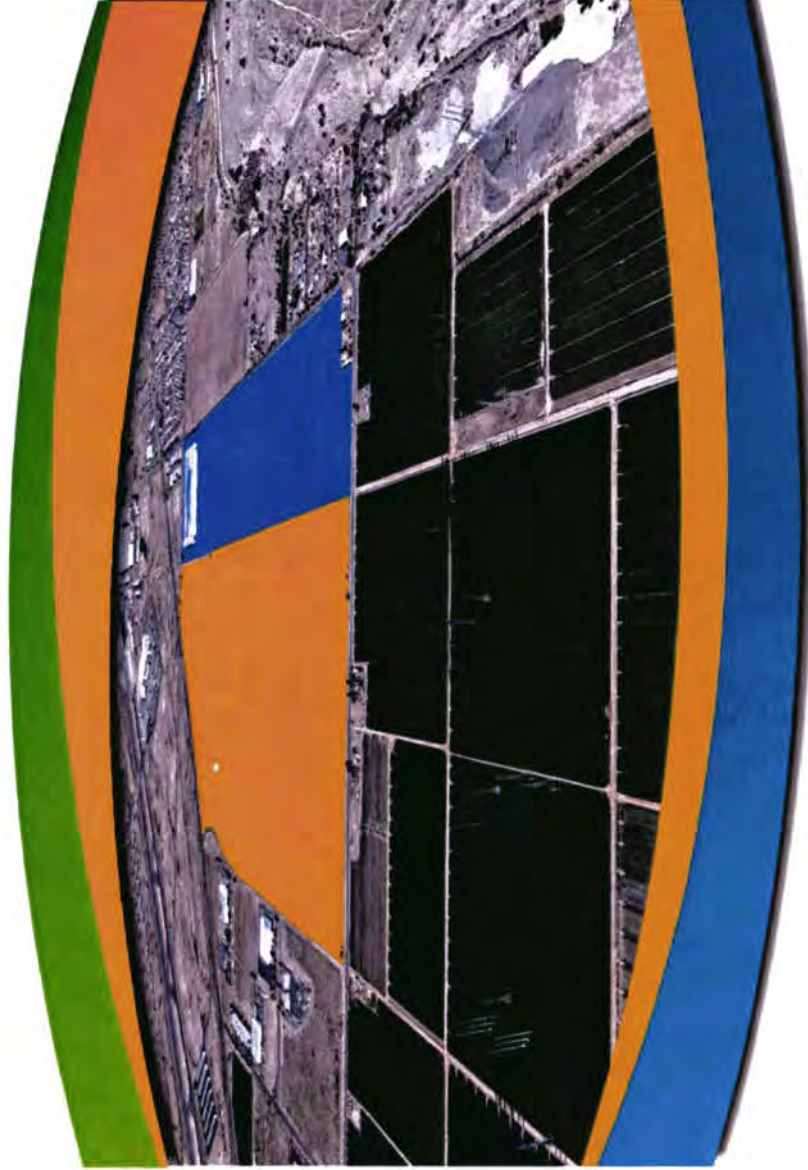
L29

1. This drawing is for reference only. It is not to be used for construction. It is subject to change without notice. It is not to be used for construction. It is subject to change without notice.

Development Status - Cyclone

- Build and sequencing similar to Wildcat
- Estimating 69kV construction start by end of year and in-service by May 2020
- One existing building on site

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

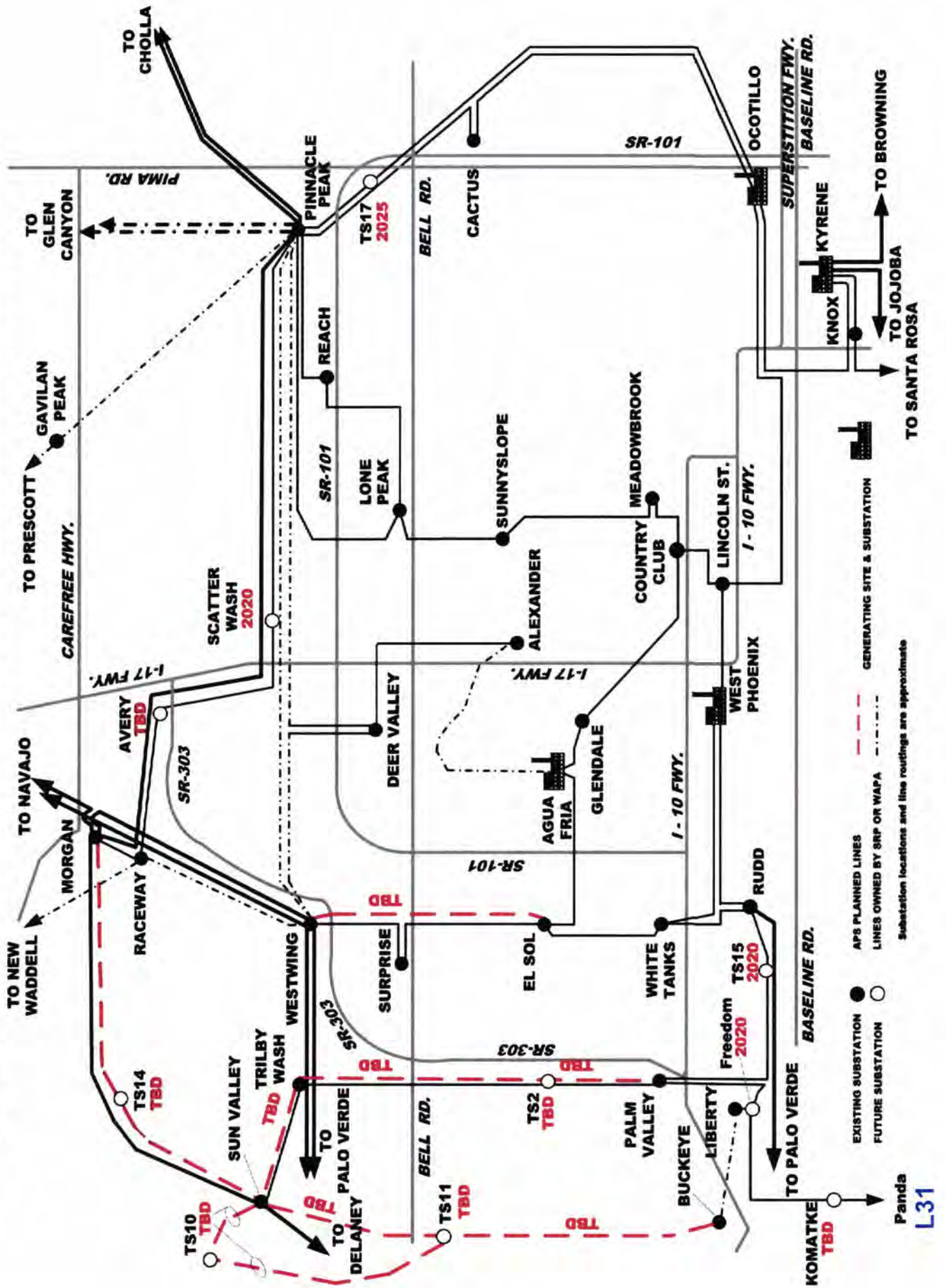
Submitted by | **Arizona Public Service Company**

August 2019

APS Ten-Year Plan



PHOENIX METROPOLITAN AREA TRANSMISSION PLANS

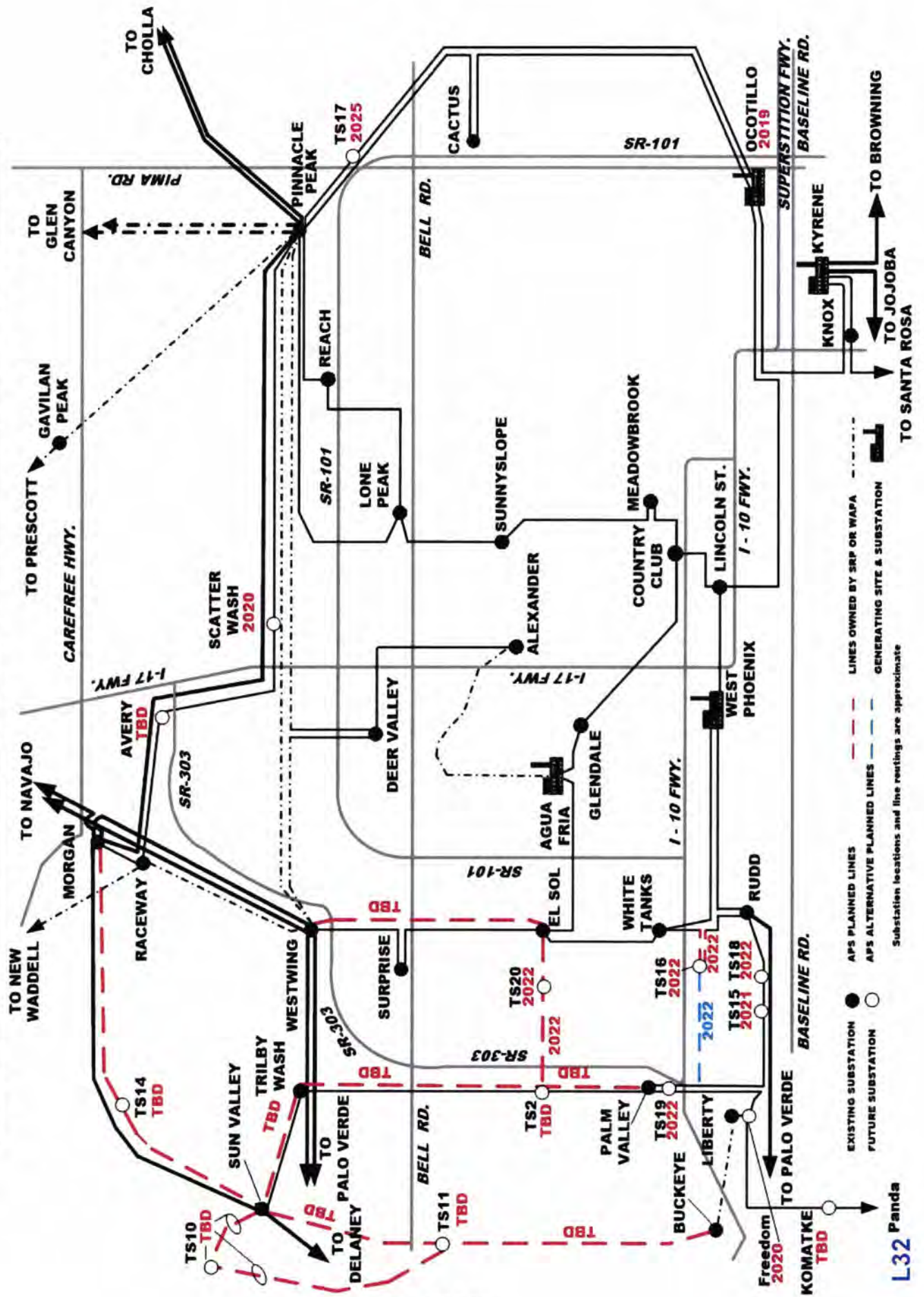




Inclusion in APS Ten-Year Plan

- Project Wildcat was included in APS's Ten-Year Plan filed on January 31, 2019
- June 12, 2019, APS filed a supplement to its Ten-Year Plan
 - Project Cyclone was included
- All reliability analysis was performed assuming full build-out of 5 west valley data center sites
 - System reliability is maintained throughout the 10-year planning horizon

PHOENIX METROPOLITAN AREA TRANSMISSION PLANS

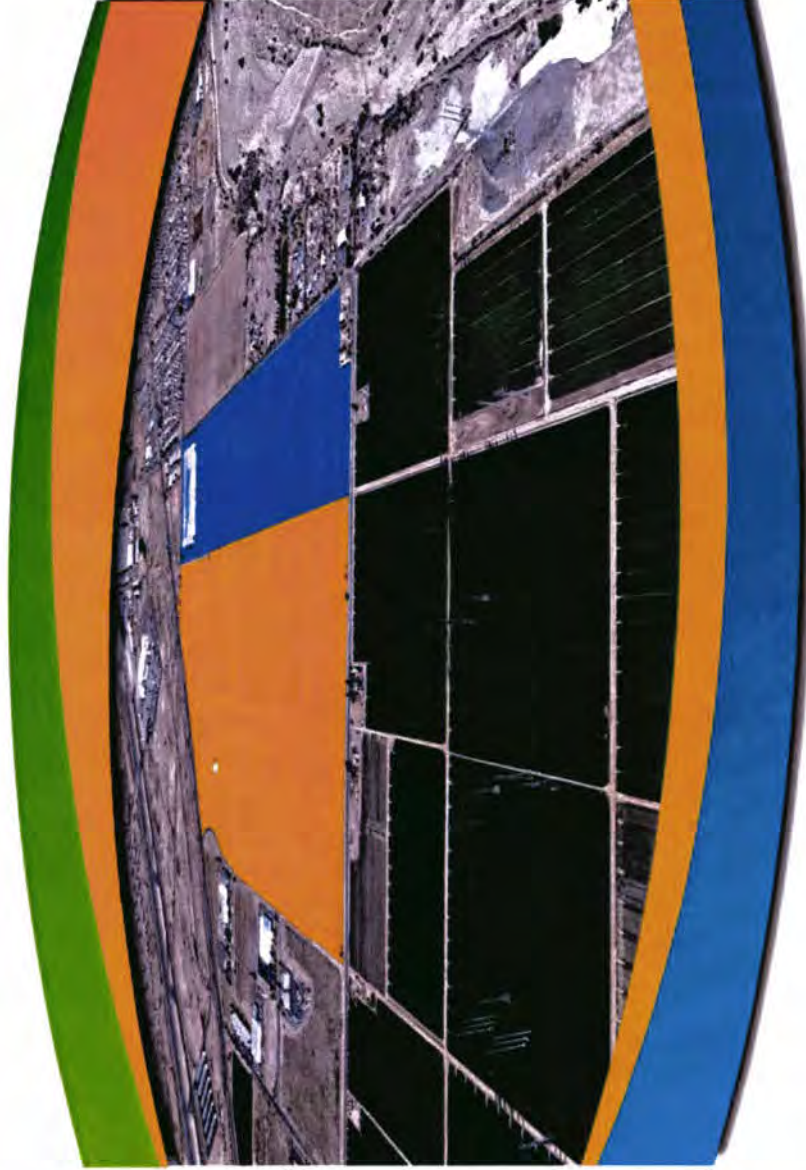




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Application for a
**Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project**



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

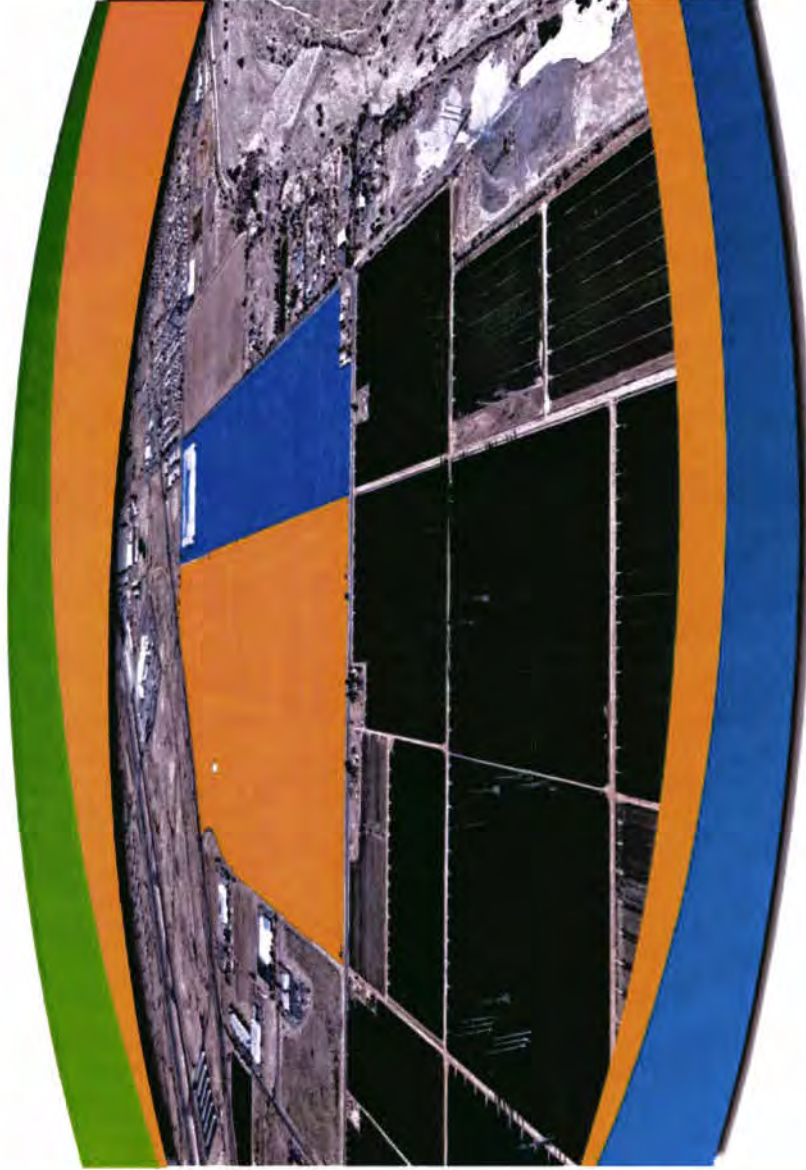
Submitted by | **Arizona Public Service Company**

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Noise and EMF Analysis



Application for a
**Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project**



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

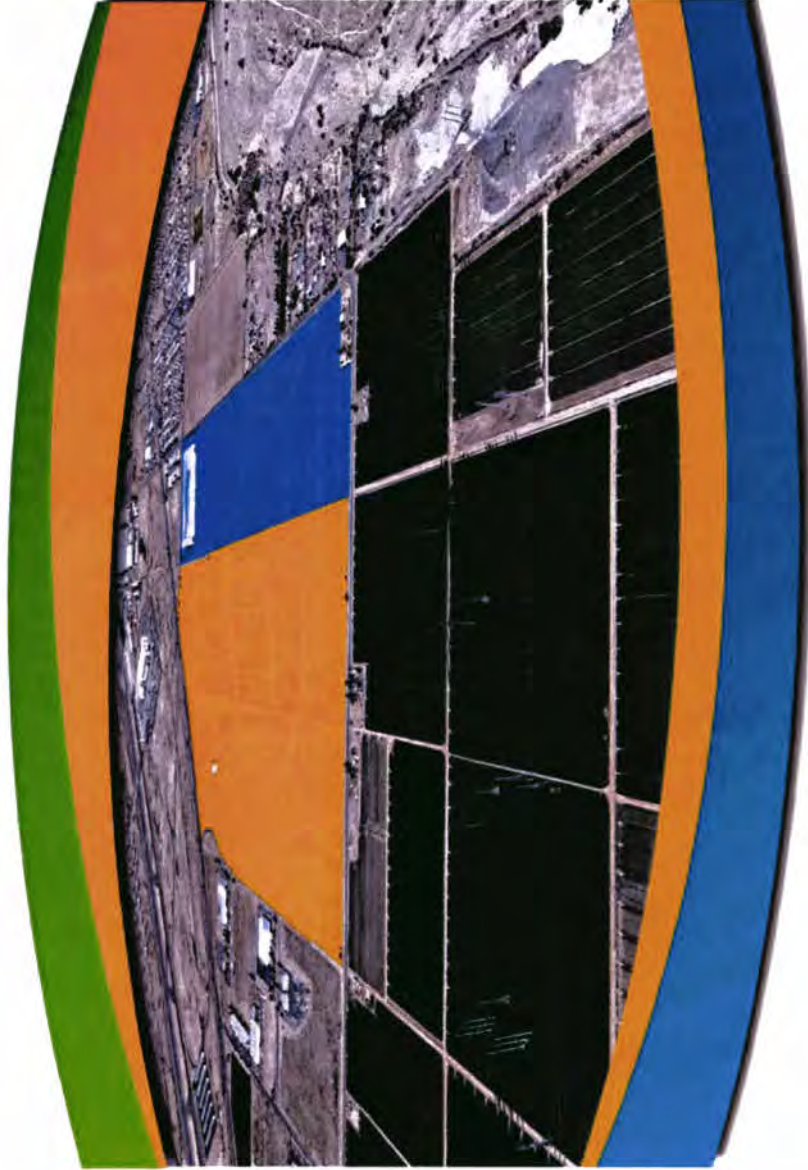
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Noise Analysis

- Industrial and agricultural area with existing lines
- New lines to be consistent with noise levels of existing lines
- Minimal noise impacts expected due to this line

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



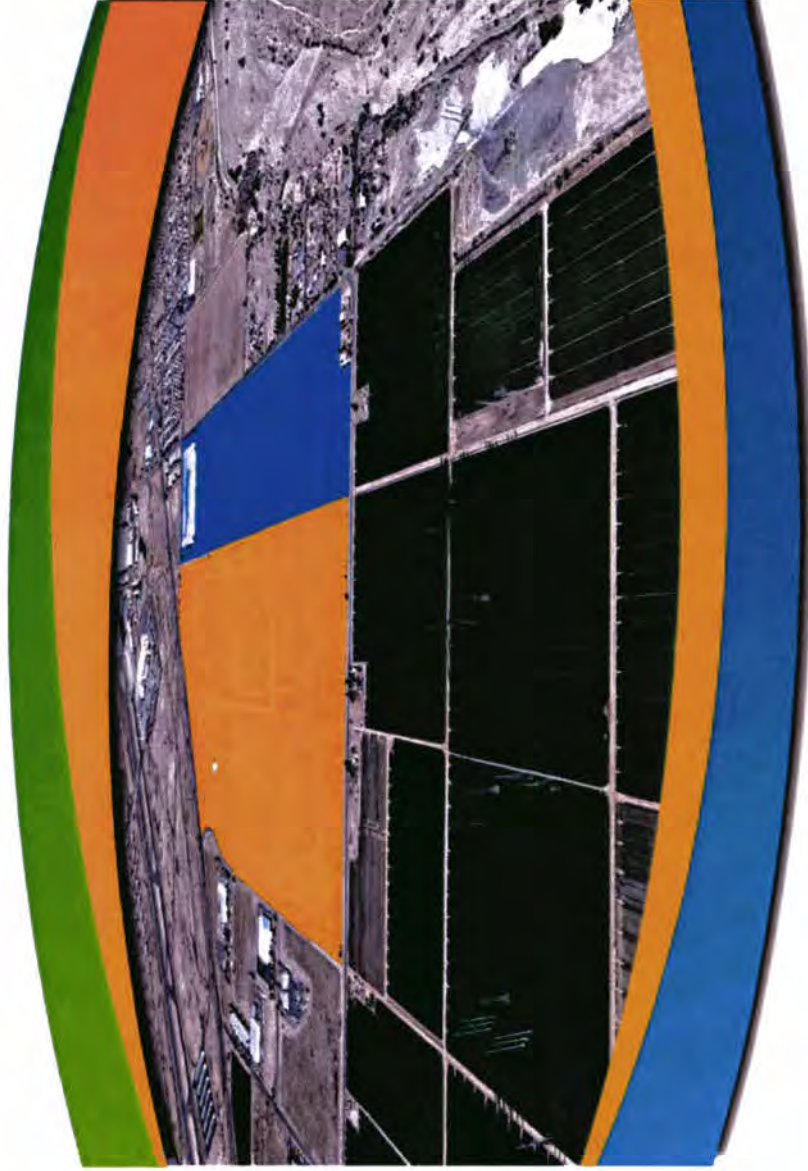
Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**
Submitted by | **Arizona Public Service Company**

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EMF Analysis

- Expected Electric Field values well below IEEE 5 kV/m limit outside ROW
- Calculated Magnetic Field comparable to existing lines of this voltage

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

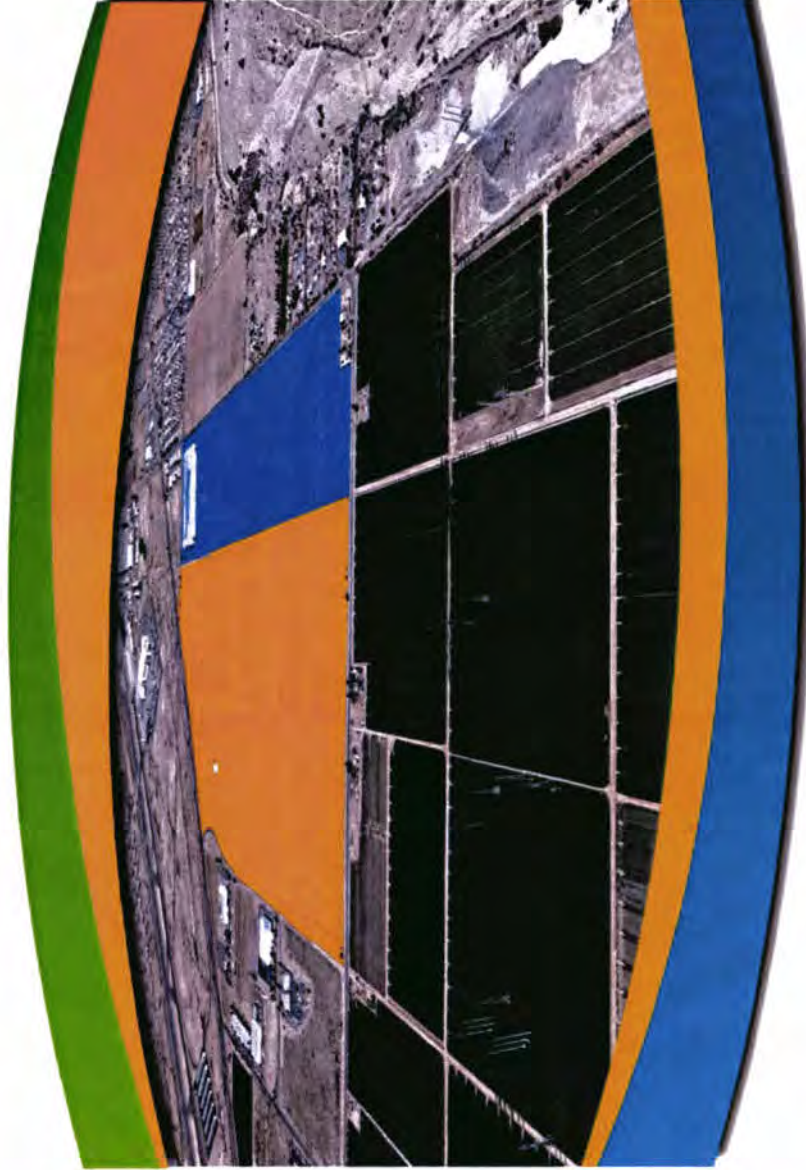
Submitted by | **Arizona Public Service Company**

August 2019

Project Funding Under Line Extension Policy



Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

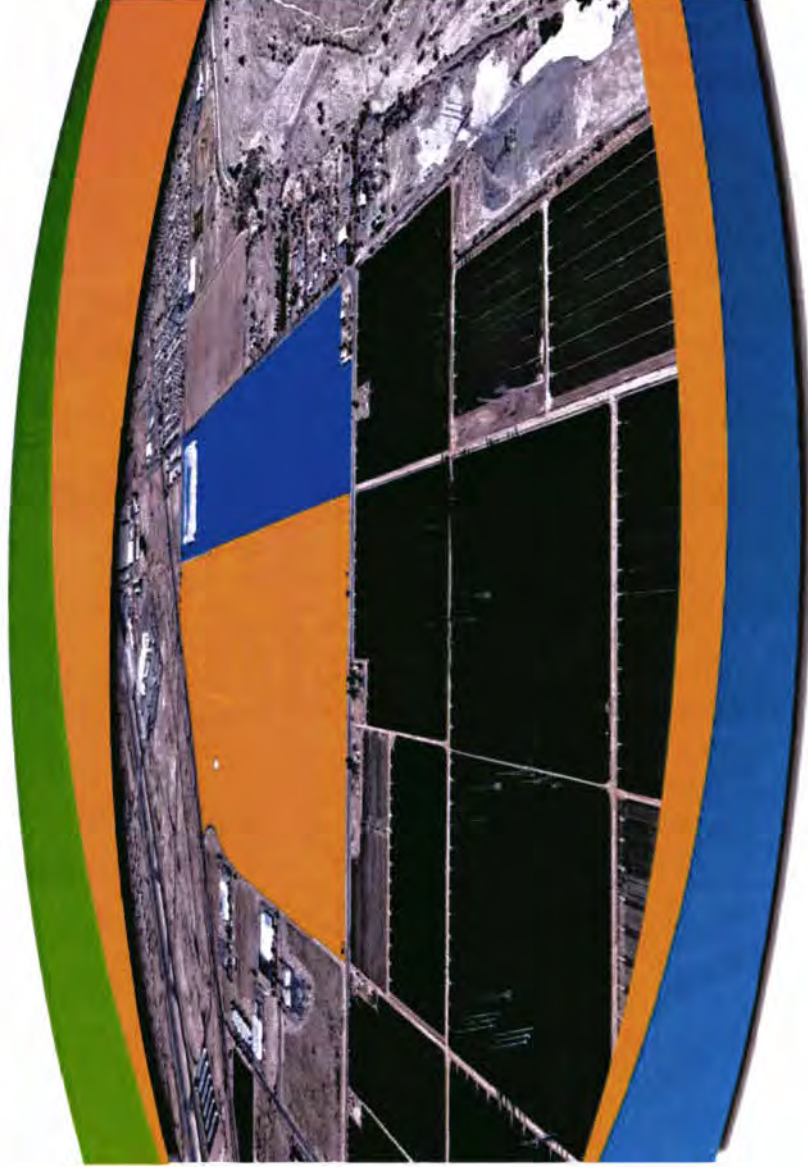
Submitted by | **Arizona Public Service Company**

August 2019

Line Extension Policy Terms

- Wildcat and Cyclone pay costs for facilities to serve their respective sites
- Potential for cost refund
 - Only certain facilities are eligible
 - Determined based on transmission revenue
 - Only refunded up to level that their load will cover
 - Customer required to maintain load for at least 3 consecutive billing cycles before eligible for refund

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

Submitted by | **Arizona Public Service Company**

August 2019

Jason Spitzkoff

Manager of Transmission Planning,
Interconnections Development,
and Facilities Siting

Arizona Public Service Company



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WILDCAT AND CYCLONE 230KV TRANSMISSION LINE PROJECT

Docket No. L-00000D-19-0196-00183

WITNESS SUMMARY

of

DEVIN PETRY

September 12, 2019

Mr. Petry is a Project Manager at EPG, the environmental consultant retained by APS for the Wildcat and Cyclone 230kV Transmission Line Project (Project). He served as the Environmental Manager for this Project. His testimony will include a discussion of the environmental studies conducted by EPG, and the results of those analyses.

Mr. Petry will present findings and conclusions with respect to land uses and existing plans, biological resources, cultural resources, visual resources, and recreation. His testimony will include the presentation of photographic simulations and the virtual tour of the Project. Mr. Petry concludes that the Project as proposed conforms to all applicable jurisdictional management plans and is environmentally compatible.

More details with respect to Mr. Petry's testimony are contained in the presentation slides, which have been filed in the docket and provided to the Power Plant and Transmission Line Siting Committee.

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WILDCAT AND CYCLONE 230KV TRANSMISSION LINE PROJECT

Docket No. L-00000D-19-0196-00183

WITNESS PRESENTATION SLIDES

of

DEVIN PETRY

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

Submitted by | **Arizona Public Service Company**

August 2019

Wildcat and Cyclone 230kV Transmission Line Project

**Application for a Certificate
of Environmental Compatibility**

Case No. 183

Prepared for

Arizona Power Plant and Transmission Line Siting Committee





Devin Petry

Project Manager
Environmental Planning Group (EPG)







Witness Background

- Education
 - University of Arizona
 - Bachelor of Arts, Geography
- Professional Experience
 - Project manager and environmental planner
 - 11 years environmental planning and permitting experience
 - Managed or participated in more than 40 environmental planning projects – 18 of which were Arizona siting projects





Witness Background

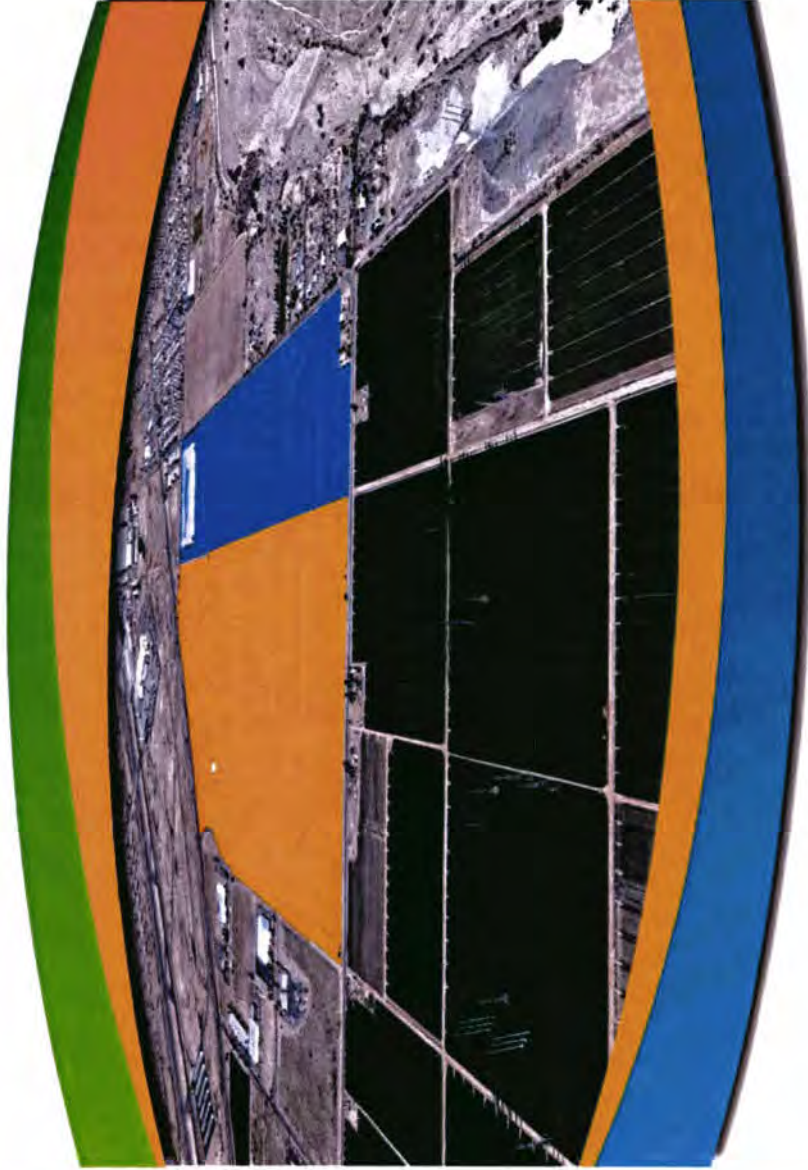
- Professional Experience
 - Environmental studies project manager, previously provided testimony before the Siting Committee in:
 - Case No. 162 – Sonoran Solar Energy Generation Tie Line Project
 - Case No. 174 – Pinal Central Energy Center Generation Tie Line Project





- EPG is an interdisciplinary environmental planning and permitting firm
- EPG has offices in four western states, with headquarters in Phoenix, Arizona
- EPG personnel have provided testimony before the Arizona Power Plant and Transmission Line Siting Committee in 31 previous cases
- EPG has assisted APS in the preparation of the CEC Application for the Project

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

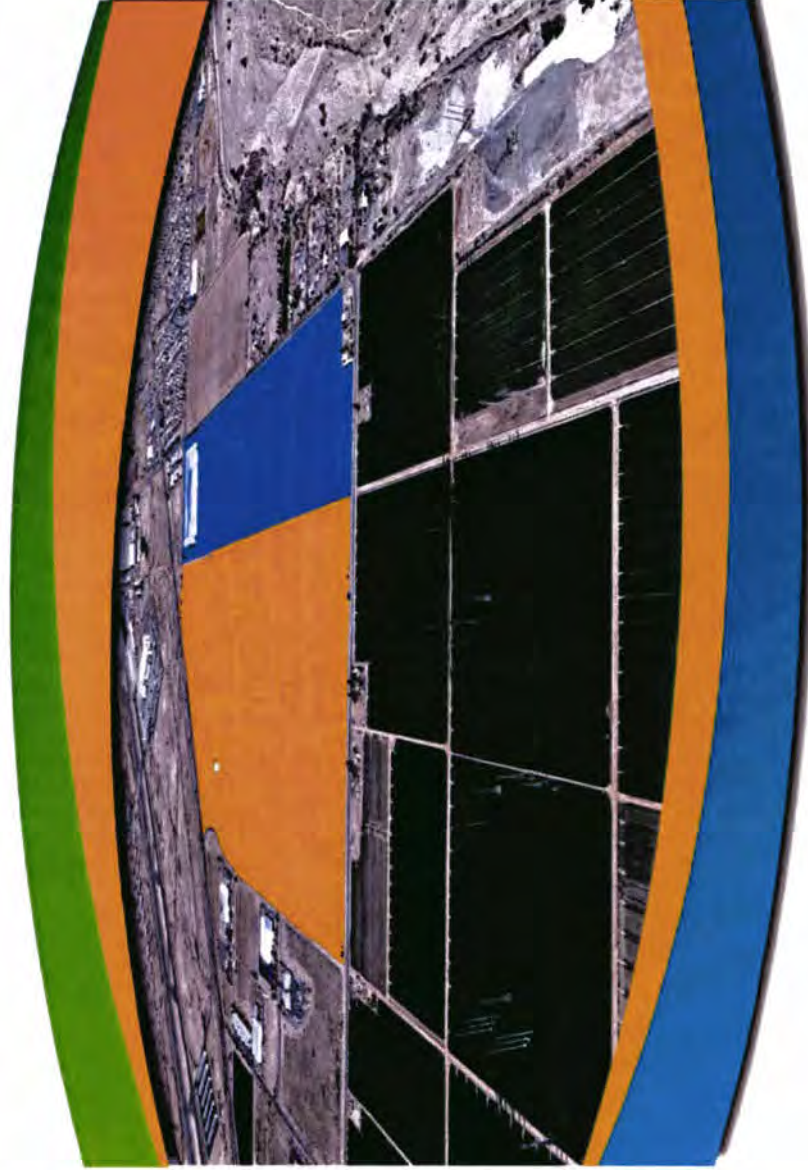
Submitted by | **Arizona Public Service Company**

August 2019

Outline of Testimony

- Environmental studies and public outreach
- Results of environmental studies
- Presentation of photographic simulations and a virtual Project tour
- Environmental conclusions regarding:
 - Land use, recreation, and existing plans
 - Biological resources
 - Cultural resources
 - Visual Resources

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

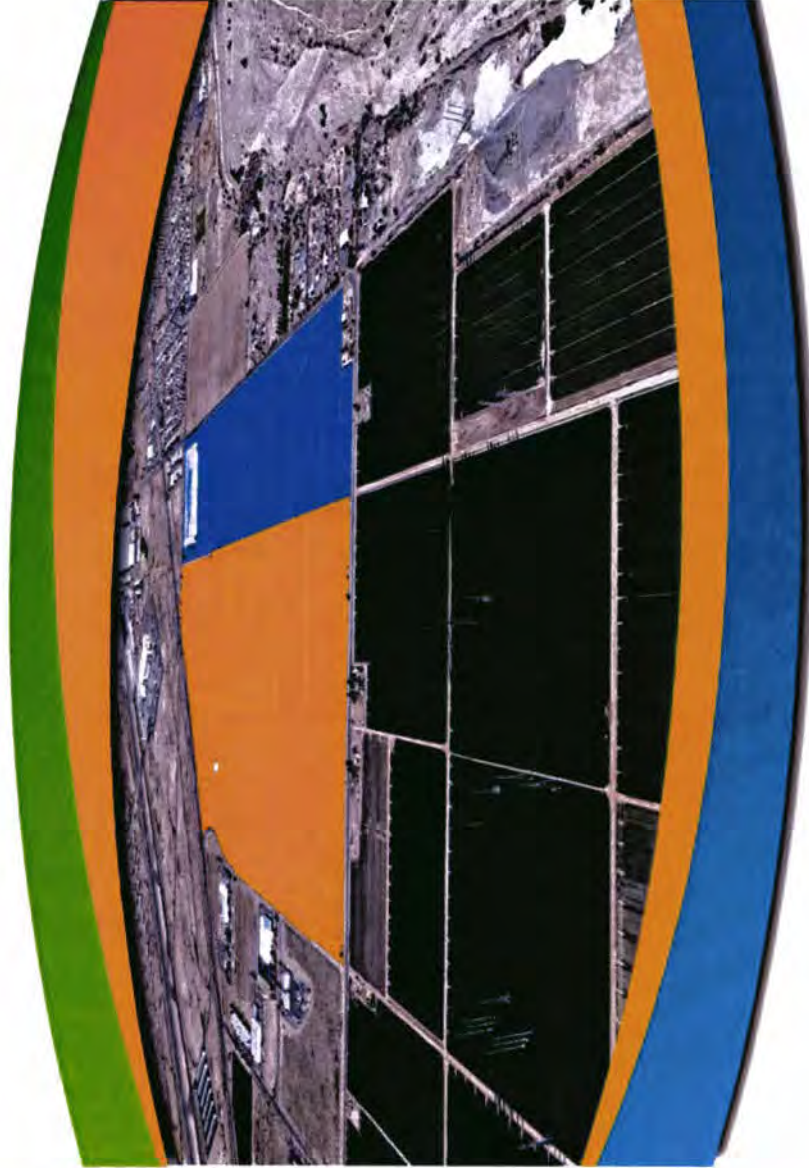
Submitted by | **Arizona Public Service Company**

August 2019

Overview of Environmental Studies



Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



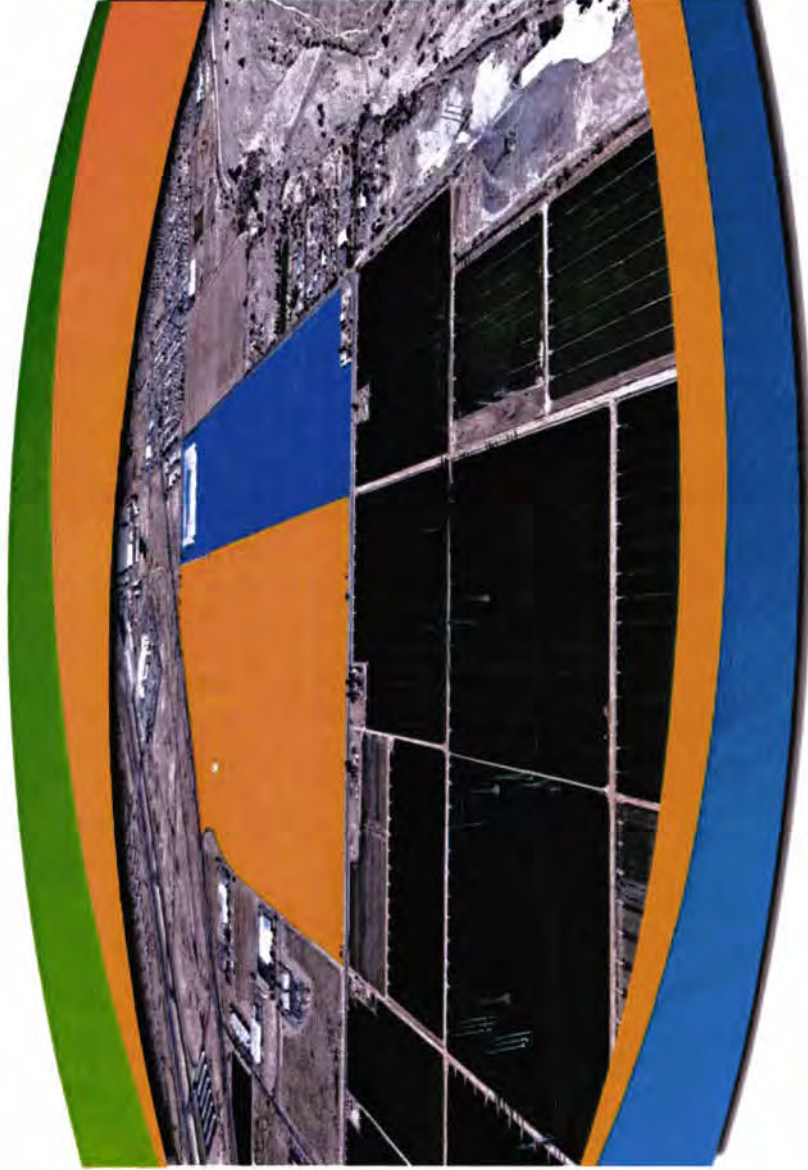
Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**
Submitted by | **Arizona Public Service Company**

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Overview of the Environmental Studies Conducted By EPG

- Certificate of Environmental Compatibility Application
 - Land Use and Recreation (Exhibits A, B, and F)
 - Biological Resources (Exhibits C and D)
 - Visual Resources (Exhibit E)
 - Cultural Resources (Exhibit E)
 - Existing Plans (Exhibit H)

Application for a
Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

Submitted by | **Arizona Public Service Company**

August 2019

Results of Environmental Studies



Exhibit A - 1 Land Ownership

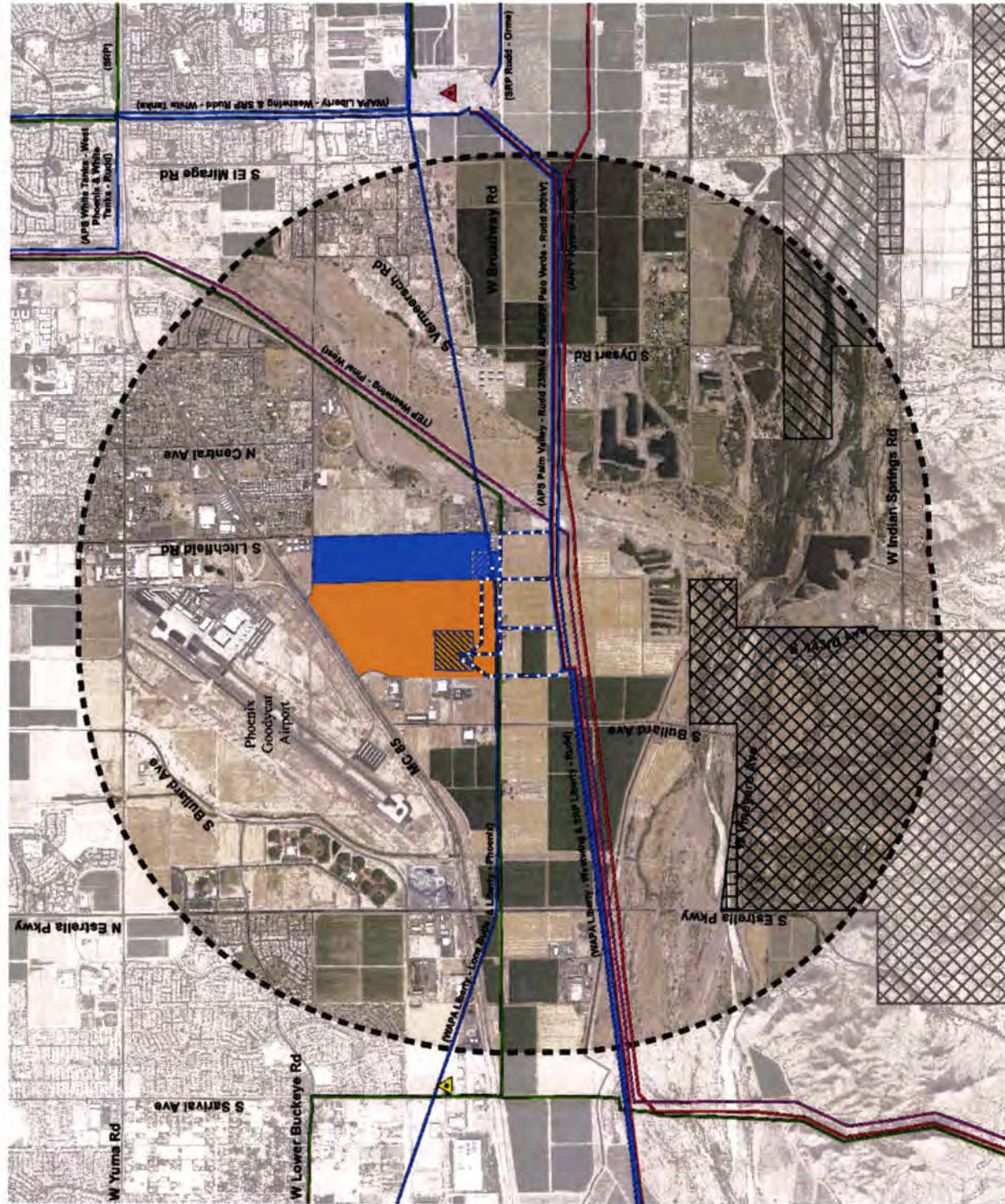
Wildcat and Cyclone 230kV Transmission Line Project

- Land Ownership**
- BLM
 - County Park
 - State
 - Private/Other
- Project Features**
- Wildcat Site
 - TS15 Substation
 - Cyclone Site
 - TS18 Substation
 - 2 mile Study Area
 - 230kV Transmission Line Alternatives
- Existing Transmission Facilities**
- 69kV Substation
 - 500/230kV Substation
 - 69kV Transmission Line
 - 230kV Transmission Line
 - 345kV Transmission Line
 - 500kV Transmission Line



aps ep9

August 2019



Land Use Summary Exhibits A and B

- Within the City of Goodyear, primarily on privately-owned land
- In an area planned for future commercial and industrial development
- Six existing high-voltage transmission lines within 0.5 miles of Project
- Existing land uses within Study Area include an airport; agricultural, industrial, residential, commercial, recreational, and transportation uses; and vacant land

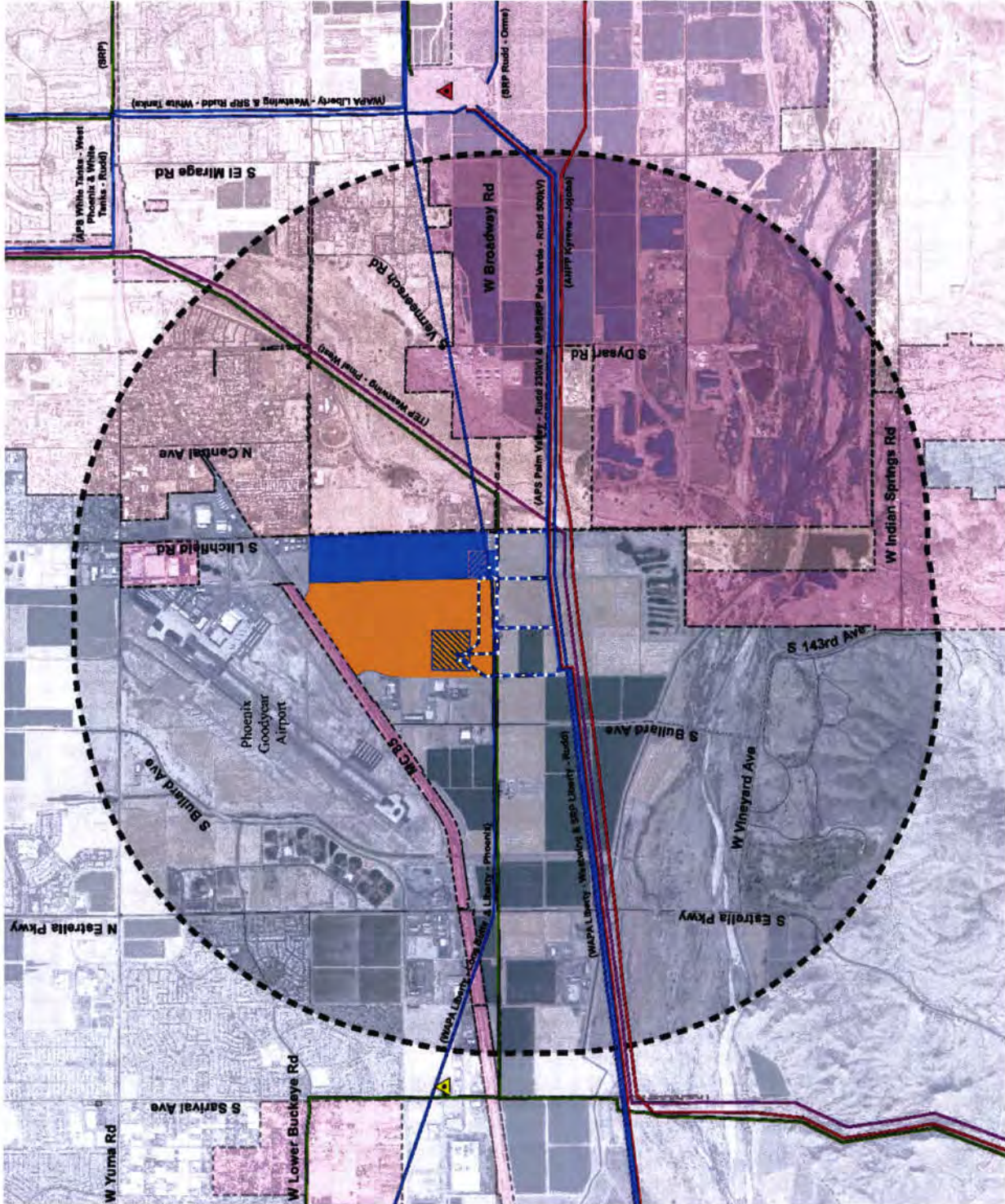
Exhibit A - 2 Jurisdiction

Wildcat and Cyclone 230kV Transmission Line Project

- Jurisdiction**
- Avonville
 - Goodyear
 - Maricopa County

- Project Features**
- Wildcat Site
 - TS15 Substation
 - Cyclone Site
 - TS18 Substation
 - 2 mile Study Area
 - 230kV Transmission Line Alternatives

- Existing Transmission Facilities**
- 69kV Substation
 - 500/230kV Substation
 - 69kV Transmission Line
 - 230kV Transmission Line
 - 345kV Transmission Line
 - 500kV Transmission Line





Land Use Summary Exhibits A and B

- Within the City of Goodyear, primarily on privately-owned land
- In an area planned for future commercial and industrial development
- Six existing high-voltage transmission lines within 0.5 miles of Project
- Existing land uses within Study Area include an airport; agricultural, industrial, residential, commercial, recreational, and transportation uses; and vacant land

Exhibit A - 3 Existing Land Use

Wildcat and Cyclone 230kV Transmission Line Project

Existing Land Use

- Residential, Single-Family Low Density
- Residential, Single-Family Medium Density
- Residential, Single-Family High Density
- Residential, Multi-Family
- Residential, RV Park/Mobile Home Park
- Air Facility
- Agriculture
- Commercial
- Communication Facilities
- Industrial
- Public/Quasi-public
- Recreation
- School/Education Facility
- Park/Preservation
- Utility
- Transportation
- Vacant

Project Features

- Wildcat Site
- TS15 Substation
- Cyclone Site
- TS18 Substation
- 2 mile Study Area
- 230kV Transmission Line Alternatives

Existing Transmission Facilities

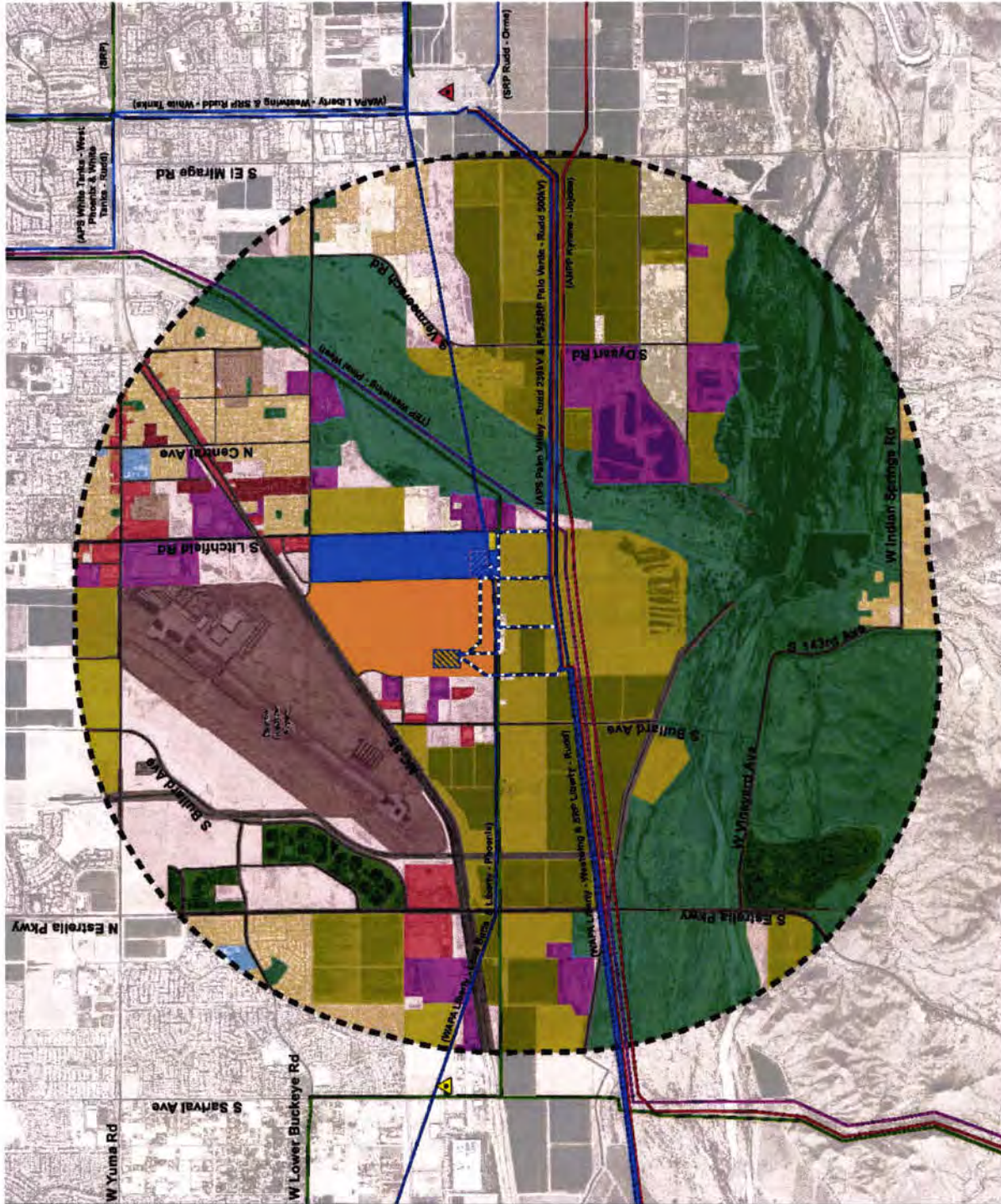
- 69kV Substation
- 230/500kV Substation
- 69kV Transmission Line
- 230kV Transmission Line
- 345kV Transmission Line
- 500kV Transmission Line



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Land Use Summary Exhibits A and B

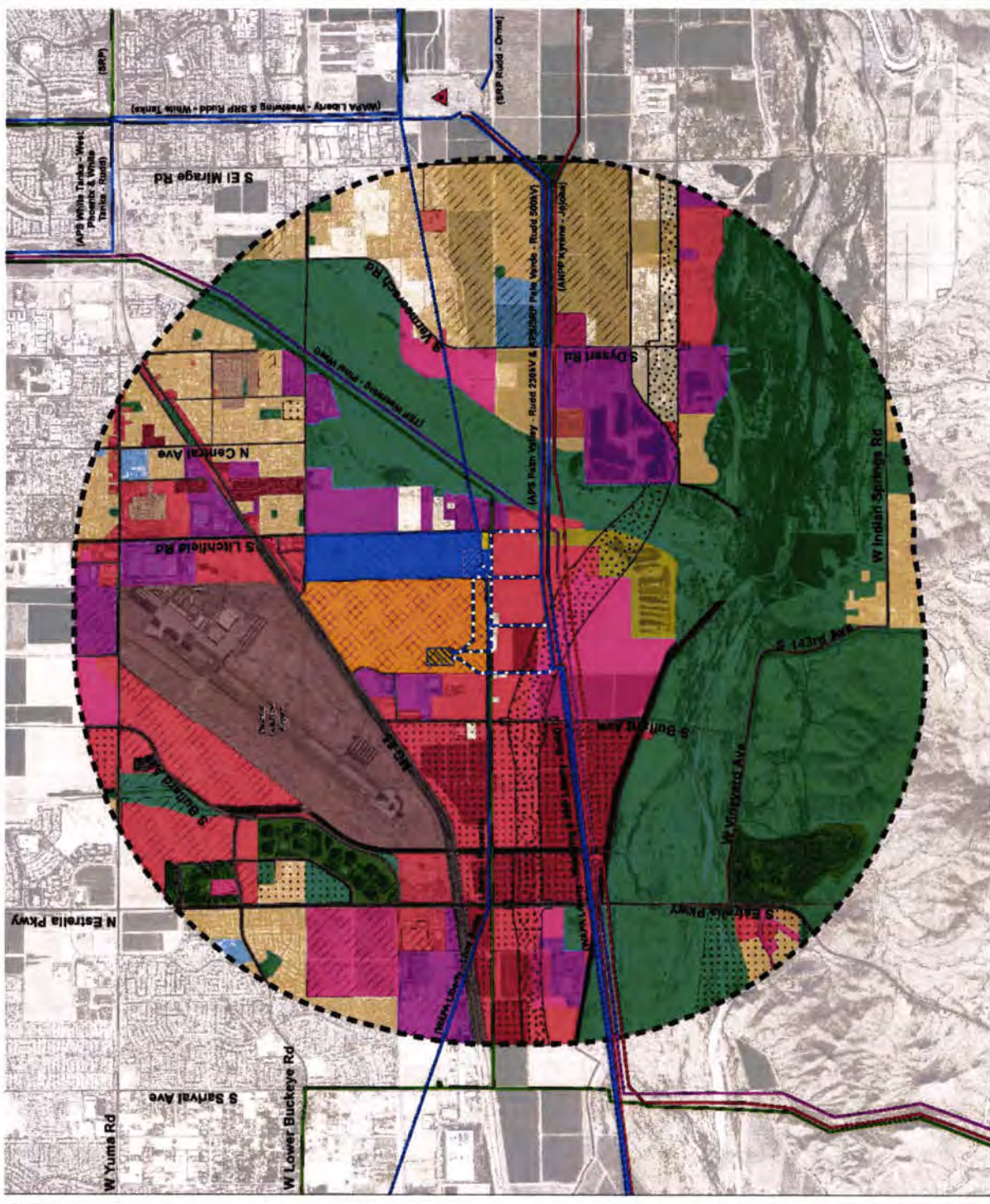
- All Project alternatives would conform with the City of Goodyear General Plan and Zoning Code, and the Phoenix Goodyear Airport Master Plan
- All Project alternatives would result in minimal impacts on existing or planned land uses or recreational opportunities
- The Preferred Route would minimize overall land use impacts by limiting utility crossings, avoiding residential land use impacts, and limiting impacts to existing agricultural uses
- The Preferred Route places the majority of the route on data center properties

Exhibit A - 4 Planned Land Use Wildcat and Cyclone 230kV Transmission Line Project

- Planned Land Use**
- Residential, Single-Family Low Density
 - Residential, Single-Family Medium Density
 - Residential, Single-Family High Density
 - Residential, Multi-family
 - Residential, RV Park/Mobile Home Park
 - Air Facility
 - Agriculture
 - Commercial
 - Communication Facilities
 - Industrial
 - Public/Quasi-public
 - Recreation
 - School/Education Facility
 - Park/Preservation
 - Mixed Use
 - Utility
 - Transportation
- Development Status**
- Under Construction
 - Final Plat
 - Preliminary Plat
 - Conceptual
 - SR30 Conceptual ROW
- Project Features**
- Wildcat SRE
 - TS15 Substation
 - Cyclone Site
 - TS18 Substation
 - 2 mile Study Area
 - 230kV Transmission Line Alternatives
- Existing Transmission Facilities**
- 69kV Substation
 - 500/230kV Substation
 - 69kV Transmission Line
 - 230kV Transmission Line
 - 345kV Transmission Line
 - 500kV Transmission Line

Scale: 1:15,000
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August 2019







Land Use Summary Exhibits A and B

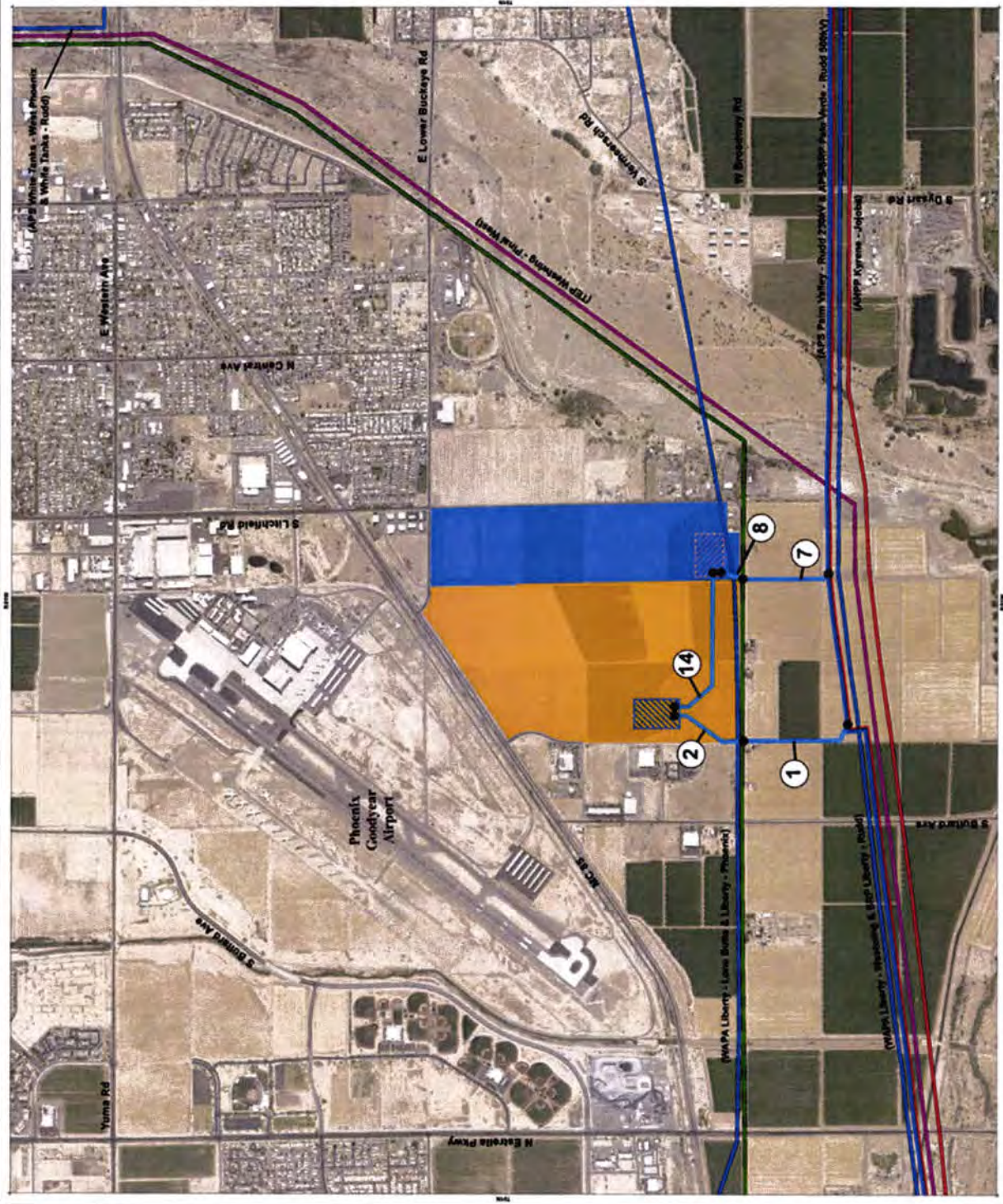
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- The Preferred Route places the majority of the route on data center properties

Wildcat and Cyclone 230kV Transmission Line Project

Preferred Route

- Project Features**
-  230kV Transmission Line Preferred Route
 -  Wildcat Site
 -  Cyclone Site
 -  TS15 Substation
 -  TS18 Substation
 -  Link Number
 -  Link Node

- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line



August 2019



L14





Biological Resources Summary Exhibits C and D

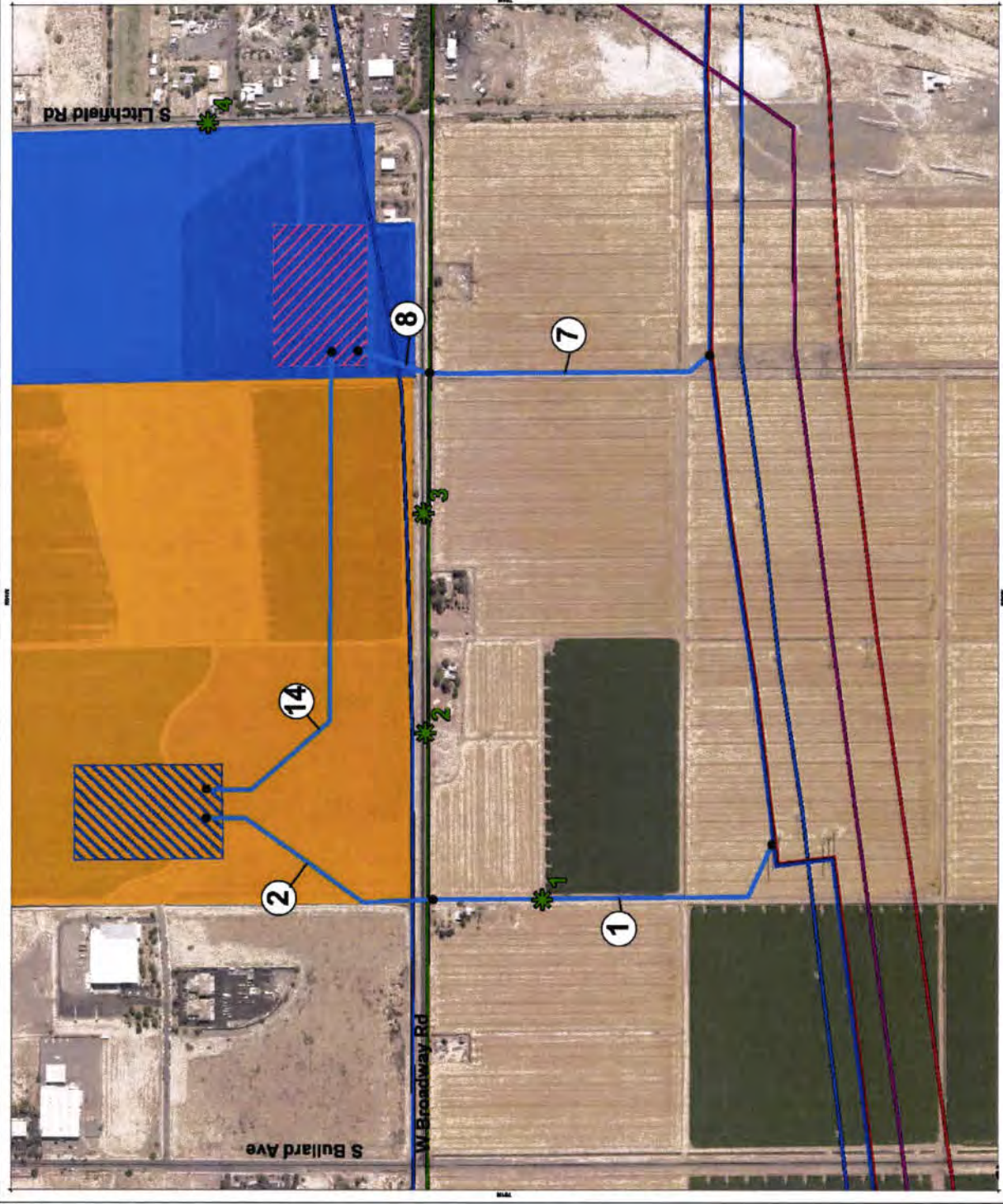
- Conducted field survey and obtained information from Arizona Game and Fish Department, and the United States Fish and Wildlife Service
- No adverse effects to Threatened and Endangered species or associated habitats
- All Project alternatives would be compatible with wildlife and plant species, as well as the affected habitat

Wildcat and Cyclone 230kV Transmission Line Project

Key Observation Points

- Project Features**
-  Key Observation Point (KOP)
 -  230kV Transmission
 -  Line Preferred Route
 -  Wildcat Site
 -  TS15 Substation
 -  Cyclone Site
 -  TS18 Substation
 -  Link Number
 -  Link Node

- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line



L15



Visual Resources Summary Exhibit E

- Existing scenery includes
 - distant mountains and foreground features
 - agricultural and industrial facilities
 - numerous 500/345/230/69kV transmission lines
 - isolated residences
- Visual simulations



Existing Condition

View looking north from KOP 1 toward isolated residence and Wildcat site



Simulated Condition

View of Preferred Route and TS15 Substation; approximately 300 feet from the nearest proposed structure

This simulation and structure diagrams are for illustrative purposes only. The project depicted in the simulation reflects preliminary siting information. Final locations will differ based on final engineering and design.

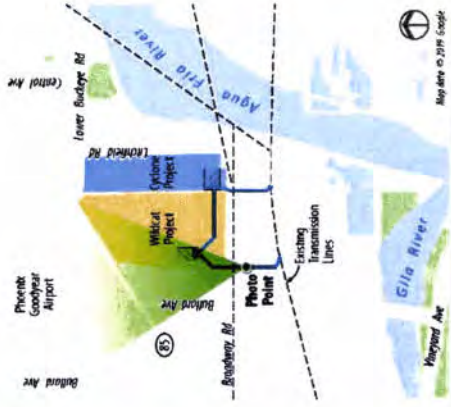
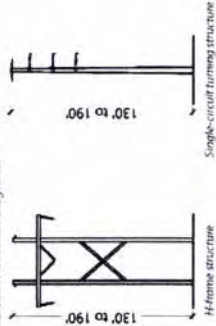


Photo Date and Time: August 7, 2019, 12:27 p.m.

Focal Length: 50mm (The original photographs were taken at 50mm, then stitched together to create this panorama, resulting in an approximately 55-degree field of view)

Typical 230kV Structure Diagrams:



Wildcat and Cyclone 230kV Transmission Line Project

Simulation from KOP 1 of Preferred
Route and TS15 Substation

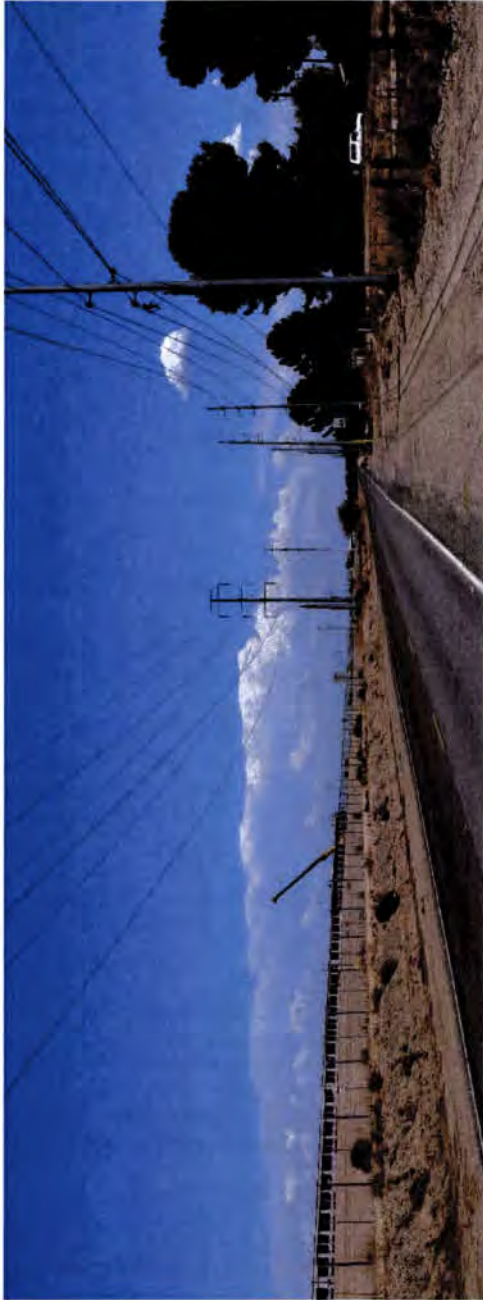
September 2019



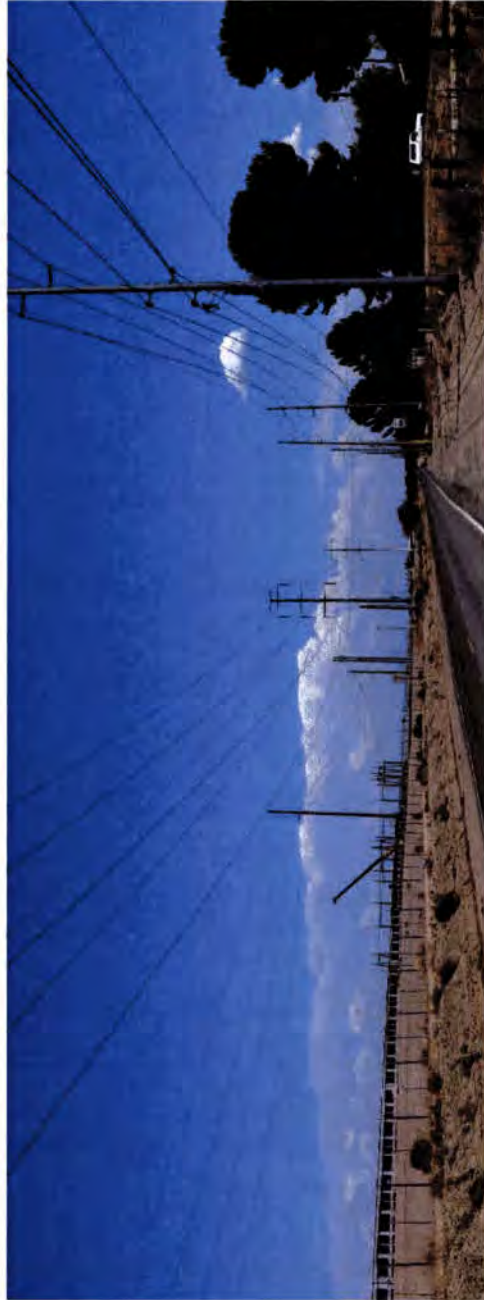


Visual Resources Summary Exhibit E

- Existing scenery includes
 - distant mountains and foreground features
 - agricultural and industrial facilities
 - numerous 500/345/230/69kV transmission lines
 - isolated residences
- Visual simulations



Existing Condition View looking east from KOP 2 along Broadway Road toward two residences



Simulated Condition View of Preferred Route and TS18 Substation; approximately 0.25 miles from the nearest proposed structure

This simulation and structure diagram are for illustrative purposes only. The project depicted in this simulation reflects preliminary siting information. Final locations will differ based on final engineering and design.

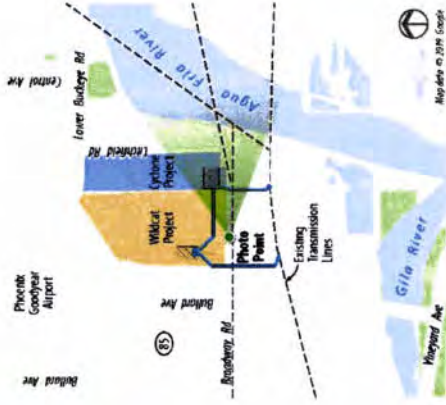
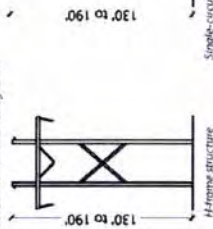


Photo Date and Time: August 7, 2019, 2:18 p.m.

Focal Length: 50mm (The original photographs were taken at 50mm, then stretched together to create this panorama, resulting in an approximately 57-degree field of view)

Typical 230kV Structure Diagrams:



Wildcat and Cyclone 230kV Transmission Line Project

Simulation from KOP 2 of Preferred
Route and TS18 Substation

September 2019

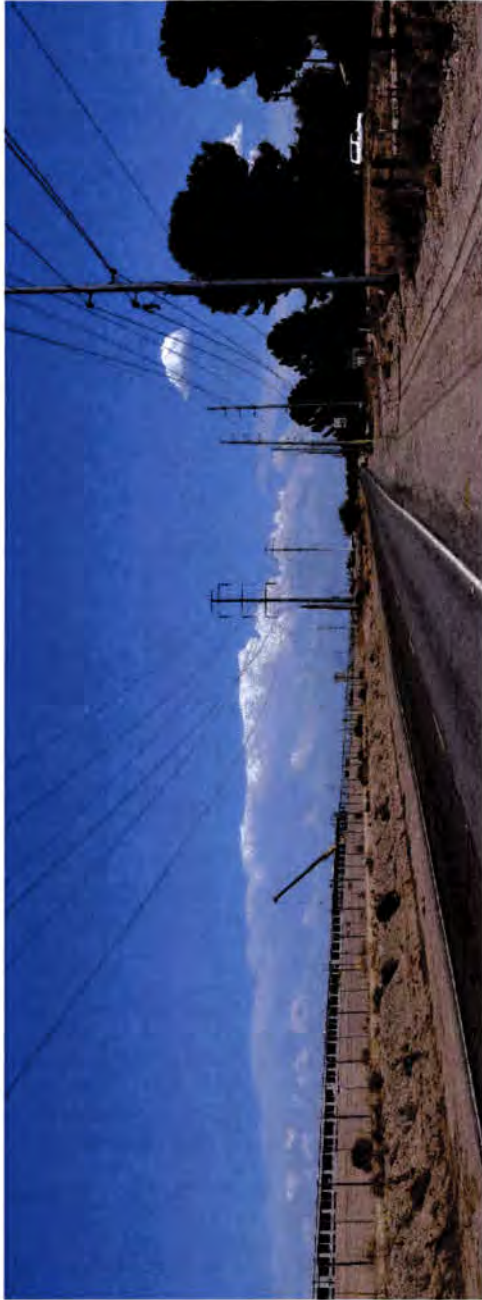




Visual Resources Summary

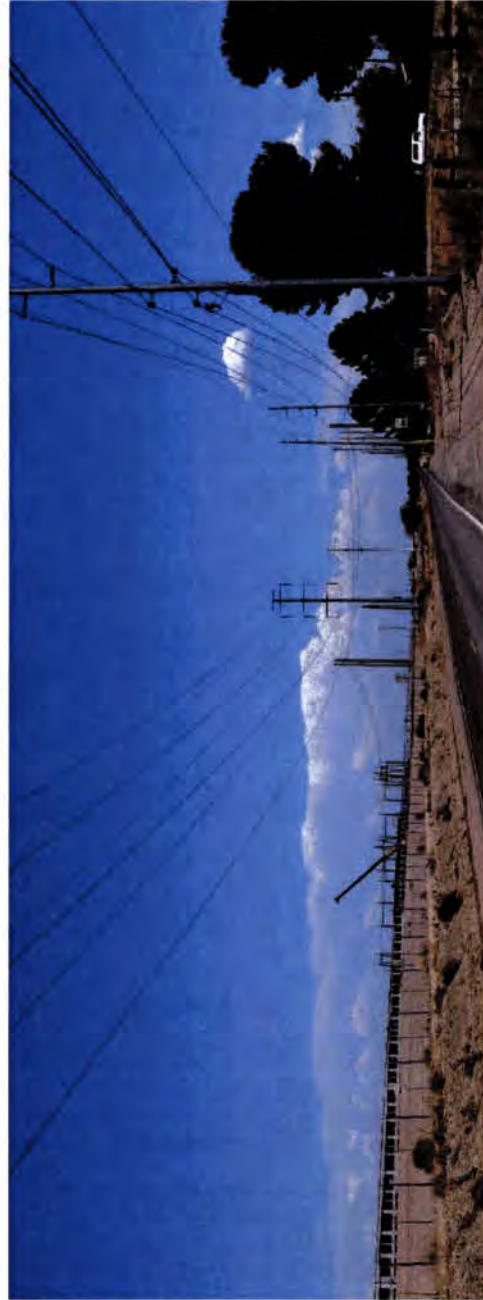
Exhibit E

- Existing scenery includes
 - distant mountains and foreground features
 - agricultural and industrial facilities
 - numerous 500/345/230/69kV transmission lines
 - isolated residences
- Visual simulations



Existing Condition

View looking east from KOP 2 along Broadway Road towards two residences



Simulated Condition

View of Alternative Route #2 and TS18 Substation; approximately 0.15 miles from the nearest proposed structure

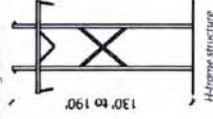
This simulation and structure diagram are for illustrative purposes only. The project depicted in the simulation reflects preliminary siting information. Final locations will differ based on final engineering and design.



Photo Date and Time: August 7, 2019, 2:18 p.m.

Focal Length: 50mm (The original photographs were taken at 50mm, then stitched together to create this panorama, resulting in an approximately 57-degree field of view)

Typical 230kV Structure Diagrams:



Wildcat and Cyclone 230kV Transmission Line Project

Simulation from KOP 2 of Alternative
Route #2 and TS18 Substation

September 2019





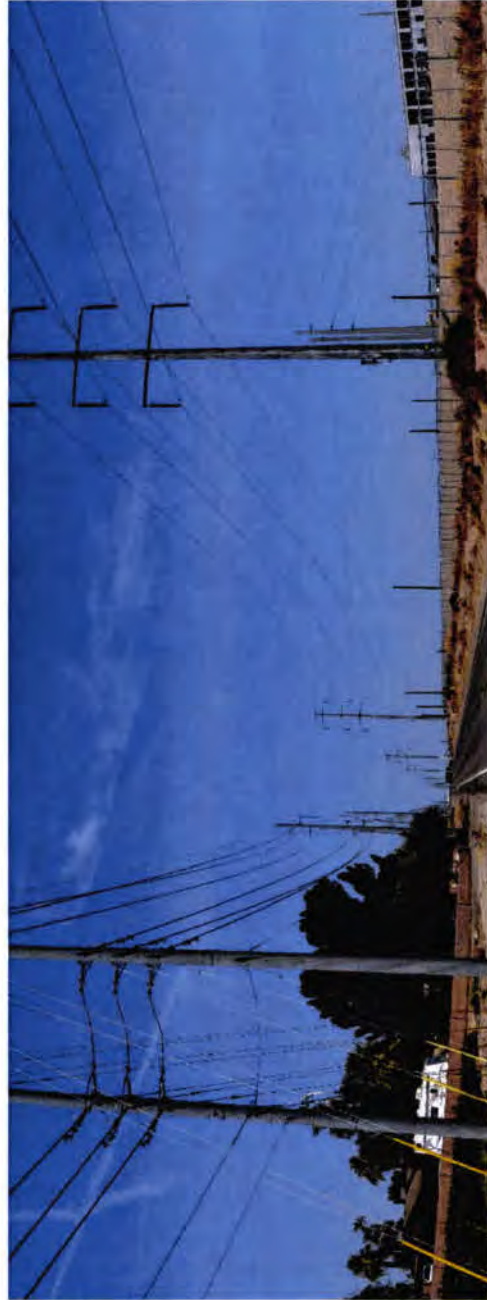
Visual Resources Summary Exhibit E

- Existing scenery includes
 - distant mountains and foreground features
 - agricultural and industrial facilities
 - numerous 500/345/230/69kV transmission lines
 - isolated residences
- Visual simulations



Existing Condition

View looking west from KOP 3 along Broadway Road toward two residences



Simulated Condition

View of Preferred Route; approximately 0.20 miles from the nearest proposed structure

This simulation and structure diagram are for illustrative purposes only. The project depicted in this simulation reflects preliminary siting information. Final locations will differ based on final engineering and design.

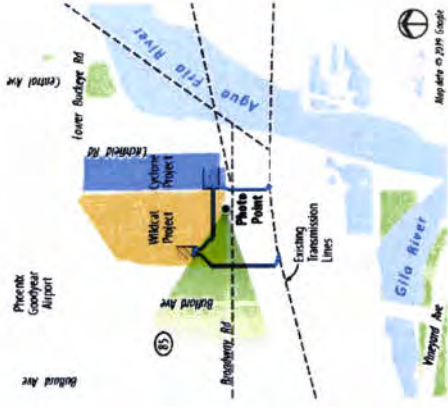
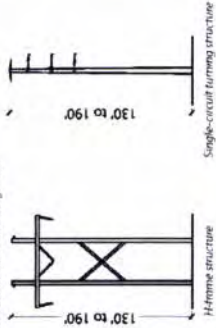


Photo Date and Time: August 7, 2019, 10:53 a.m.

Focal Length: 50mm (The original photographs were taken at 50mm, then stitched together to create this panorama, resulting in an approximately 53-degree field of view)

Typical 230kV Structure Diagrams:



**Wildcat and Cyclone
230kV Transmission
Line Project**
Simulation from KOP 3 of
Preferred Route

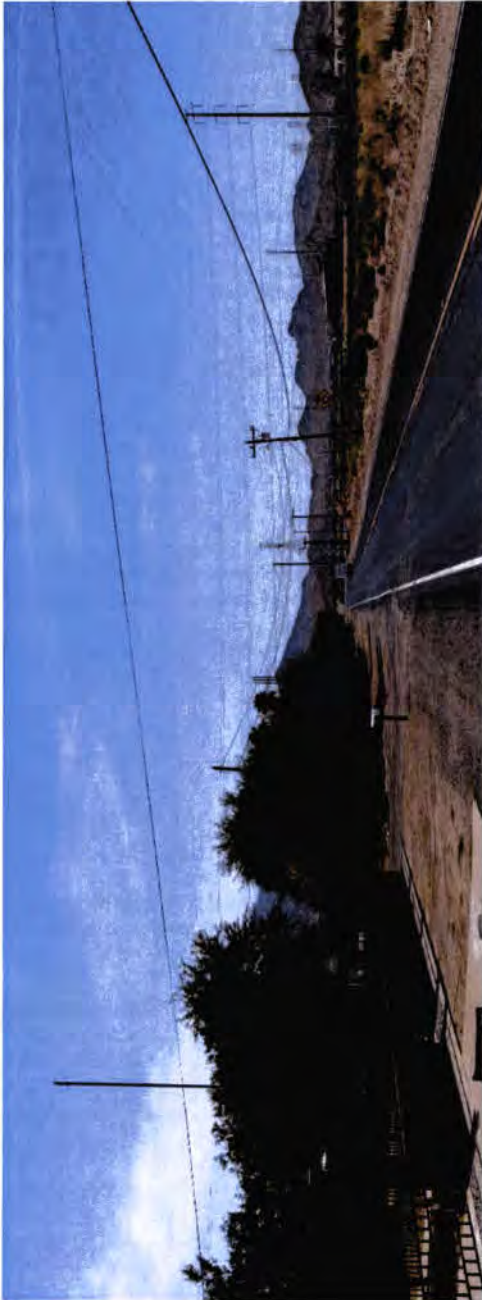
September 2019





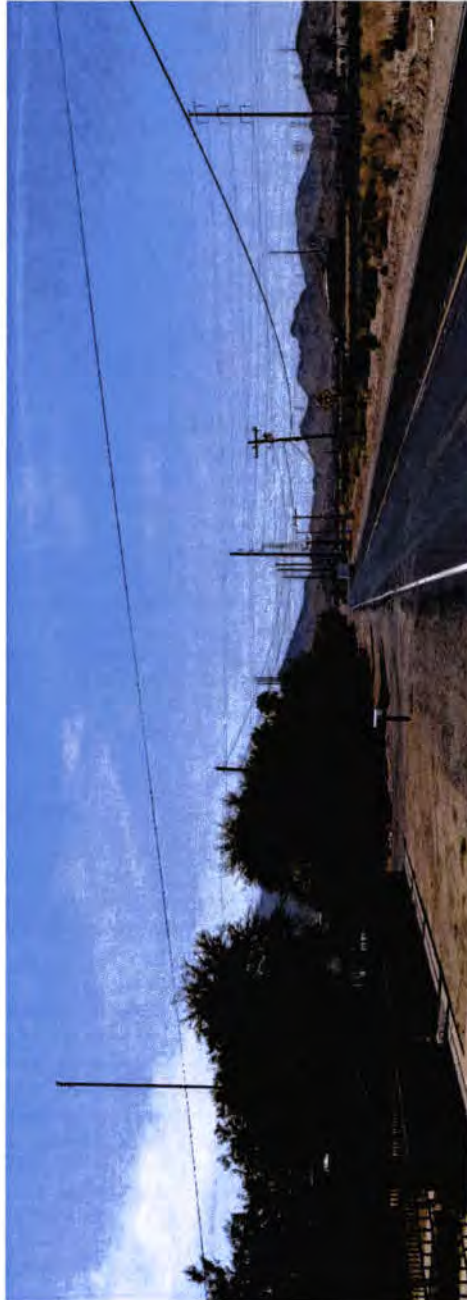
Visual Resources Summary Exhibit E

- Existing scenery includes
 - distant mountains and foreground features
 - agricultural and industrial facilities
 - numerous 500/345/230/69kV transmission lines
 - isolated residences
- Visual simulations



Existing Condition

View looking south toward Broadway Road from KOP 4 near residences on Litchfield Road



Simulated Condition

View of Alternative Route #1; approximately 0.20 miles from the nearest proposed structure

This simulation and structure diagram are for illustrative purposes only. The project depicted in this simulation reflects preliminary siting information. Field locations will differ based on final engineering and design.

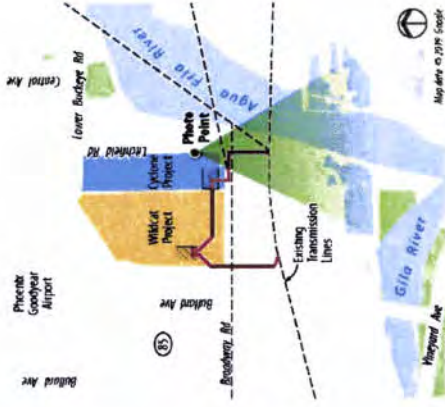
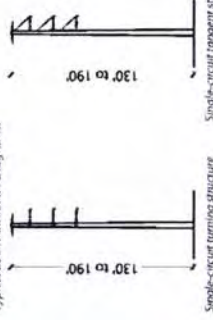


Photo Date and Time: August 7, 2019, 10:41 a.m.

Focal Length: 50mm (The original photographs were taken at 50mm, then stitched together to create this panorama, resulting in an approximately 57-degree field of view.)

Typical 230kV Structure Diagrams:



Wildcat and Cyclone 230kV Transmission Line Project

Simulation from KOP 4 of
Alternative Route # 1

September 2019



Visual Resources Summary





Exhibit E

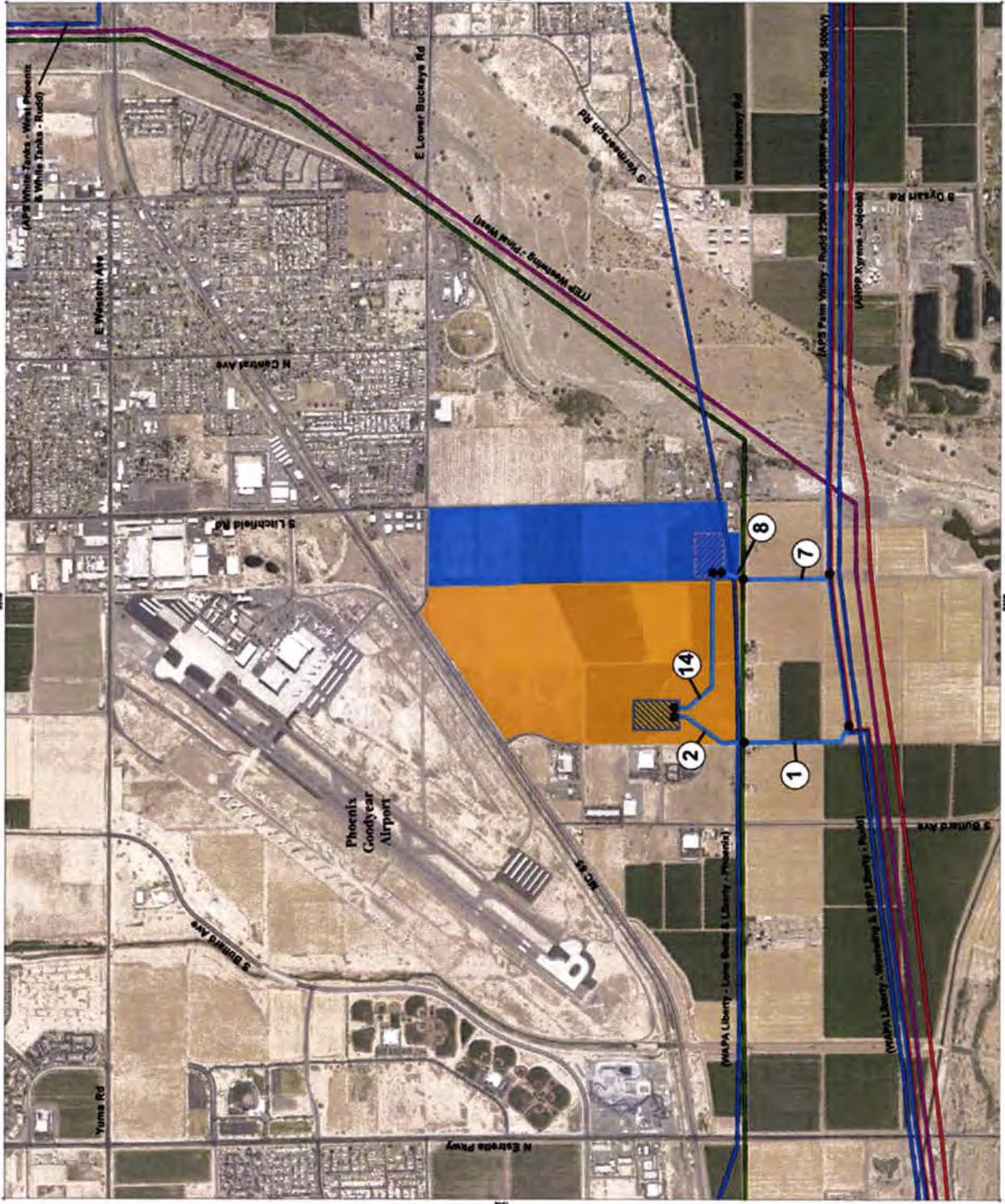
- All Project alternatives are expected to create minimal contrast with the existing transmission line features and would result in minimal impacts to existing scenery
- The Preferred Route would result in least amount of visual impact of all alternatives
 - All Project alternatives would result in a high visual impact to one residence on Broadway Road, with increased residential impacts resulting from Route Alternatives 1 and 2

Wildcat and Cyclone 230kV Transmission Line Project

Preferred Route

- Project Features**
-  230kV Transmission Line Preferred Route
 -  Wildcat Site
 -  TS15 Substation
 -  Cyclone Site
 -  TS18 Substation
 -  Link Number
 -  Link Node

- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line



August 2019



L21







Cultural Resources Summary Exhibit E

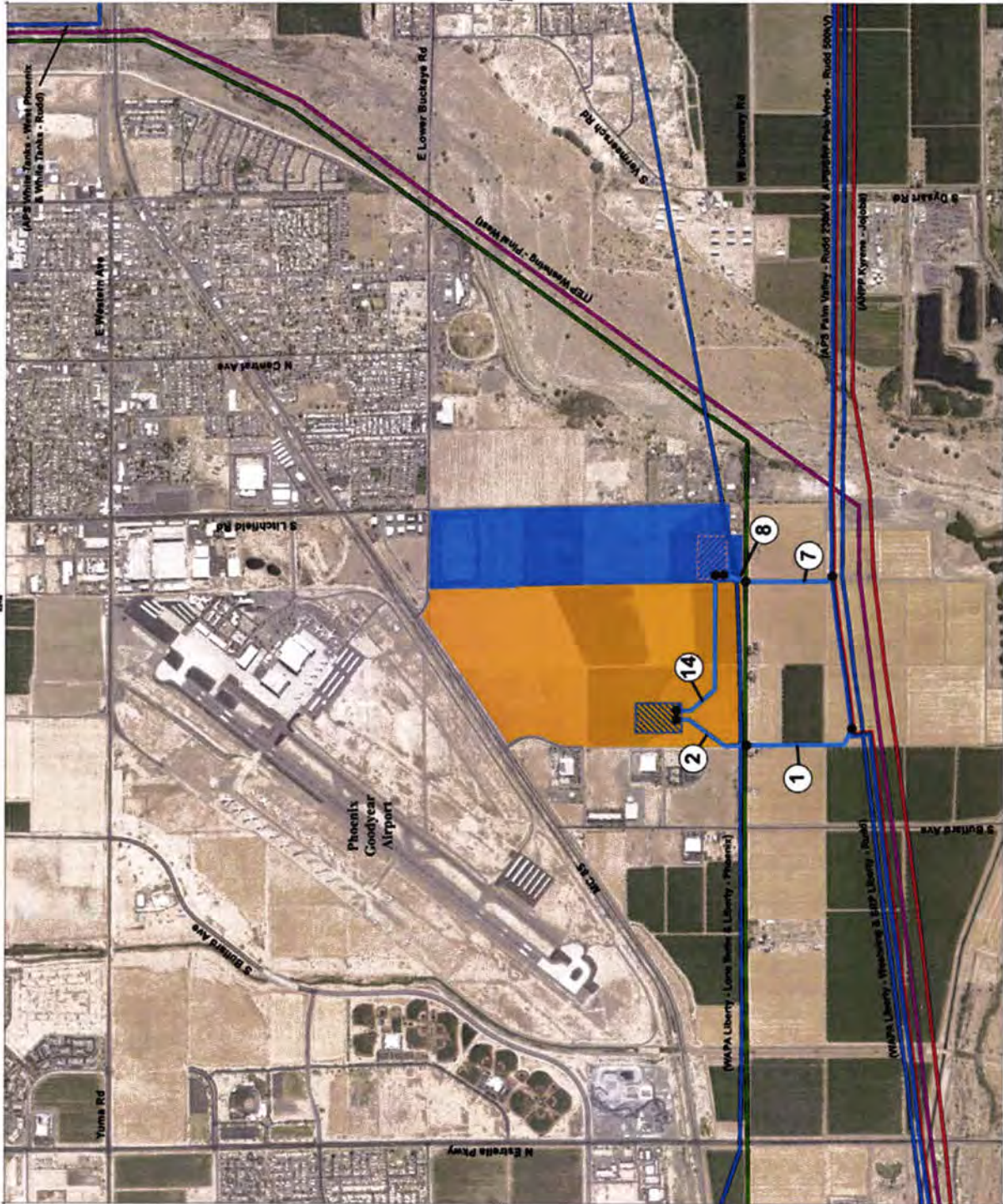
- Conducted inventory of previously identified historic sites, structures, or archaeological sites
- All Project alternatives not expected to directly or indirectly affect historic sites, structures, or archaeological sites
- State Historic Preservation Office (SHPO) concurrence received

Wildcat and Cyclone 230kV Transmission Line Project

Preferred Route

- Project Features**
-  230kV Transmission Line Preferred Route
 -  Wildcat Site
 -  TS15 Substation
 -  Cyclone Site
 -  TS18 Substation
 -  Link Number
 -  Link Node

- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line



August 2019





Recreation Summary Exhibit F

- Conducted inventory of existing and planned recreational sites and opportunities
- All Project alternatives would be compatible with existing and planned recreational facilities and opportunities

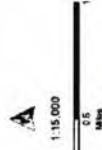
Exhibit A - 2 Jurisdiction

Wildcat and Cyclone 230kV Transmission Line Project

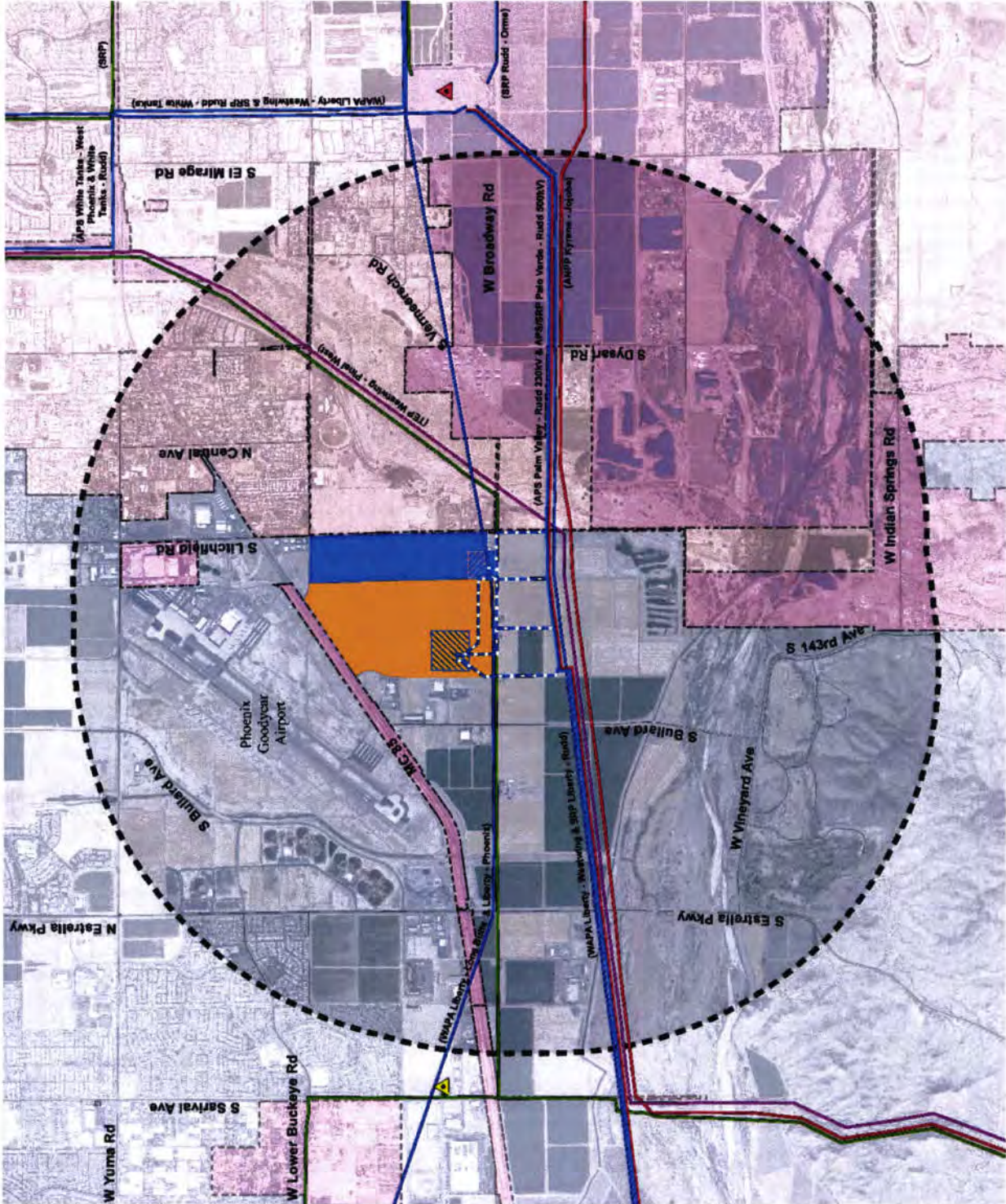
- Jurisdiction**
- Avalonide
 - Goodyear
 - Maricopa County

- Project Features**
- Wildcat Site
 - TS15 Substation
 - Cyclone Site
 - TS18 Substation
 - 2 mile Study Area
 - 230kV Transmission Line Alternatives

- Existing Transmission Facilities**
- 69kV Substation
 - 500/230kV Substation
 - 69kV Transmission Line
 - 230kV Transmission Line
 - 345kV Transmission Line
 - 500kV Transmission Line



August 2019





Existing Plans Exhibit H

- Jurisdictions
- Information obtained from
 - City of Goodyear General Plan
 - City of Avondale General Plan
 - Maricopa County Comprehensive Plan
 - Phoenix Goodyear Airport Master Plan
- Letters sent to 26 entities requesting information on any existing or planned developments

Devin Petry

From: Andrew Cavalcant <acavalcant@azgfd.gov>
Sent: Wednesday, August 21, 2019 1:24 PM
To: Devin Petry
Subject: Re: [EXTERNAL] AGFD Review of APS Wildcat and Cyclone Transmission Line project
Attachments: M19-07220944 Wildcat and Cyclone 230KV Transmission Line - AGFD Response.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Mr. Petry,
The Department has received your application packet for the *Certificate of Environmental Compatibility, Wildcat and Cyclone 230KV Transmission Line Project*. I have reviewed the packet, specifically Exhibit C and D, and the department has no further comments or concerns. I have attached our letter submitted on 8/1/19 and these recommendations still stand.

As always we appreciate the early involvement in these projects.

Thanks

On Wed, Aug 21, 2019 at 11:06 AM Andrew Cavalcant <acavalcant@azgfd.gov> wrote:
Good Afternoon,
We received your application packet for the *Certificate of Environmental Compatibility, Wildcat and Cyclone 230KV Transmission Line Project*. Has any scope of the project changed since the last comment letter we submitted on 8/17? Trying to see if that letter will work for your needs or if you would like us to respond again.

Thanks

On Thu, Aug 1, 2019 at 2:53 PM Devin Petry <dpetry@egglc.co> wrote:

Thank you for your response, Mr. Cavalcant.

Devin Petry



From: Andrew Cavalcant <acavalcant@azgfd.gov>
Sent: Thursday, August 01, 2019 2:48 PM
To: Devin Petry <dpetry@egglc.co>
Subject: [EXTERNAL] AGFD Review of APS Wildcat and Cyclone Transmission Line project

Existing Plans Exhibit H

- Responses received from
 - Arizona Game and Fish Department
 - Arizona State Historic Preservation Office
 - Buckeye Water Conservation District
 - Phoenix Goodyear Airport
 - Western Area Power Administration
- Responses indicate
 - minimal concerns
 - support for the Preferred Route
 - provided standard biological mitigation measures

Devin Petry

From: David Jacobs <djacobs@azstateparks.gov>
Sent: Tuesday, August 27, 2019 3:30 PM
To: Devin Petry
Subject: [EXTERNAL] APS Wildcat and Cyclone 230 kV Transmission Line project CEC
Attachments: 20190827145640531.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Devin-
Thank you for sending over a copy of the application for a CEC for the proposed APS Wildcat and Cyclone 230 kV Transmission Line project; our office reviewed the materials and concur with the assessment of the impacts to historic properties. See attachment for scanned copy of the cover letter for the project materials.
David Jacobs, Arizona State Historic Preservation Office

SHPO - 2019-1389 (150012)
ARIZONA STATE HISTORIC PRESERVATION OFFICE



Sustainable Solutions.

Thriving Environments.

August 15, 2019

Kathryn Leonard
State Historic Preservation Officer
Arizona State Historic Preservation Office
1100 W. Washington Street
Phoenix, AZ 85007

Subject: Arizona Public Service (APS) Application for a Certificate of Environmental Compatibility for the Wildcat and Cyclone 230KV Transmission Line Project

Dear Ms. Leonard:

Enclosed for your review you will find a copy of the Application for a Certificate of Environmental Compatibility (CEC) for the proposed APS Wildcat and Cyclone 230KV Transmission Line Project, subject to the approval of the Arizona Power Plant and Transmission Line Siting Committee and Arizona Corporation Commission.

Should you have any questions or comments regarding the CEC document, we respectfully request that you provide them by August 30, 2019. Please don't hesitate to contact me by telephone at 602-956-4370, or via email at djacobs@azstateparks.gov.

Sincerely,


Devin Petry
Environmental Planner

Enclosure

CONCUR


Arizona State Historic Preservation Office

RECEIVED
AUG 16 2019
ARIZONA STATE HISTORIC PRESERVATION OFFICE

Existing Plans Exhibit H

- Responses received from
 - Arizona Game and Fish Department
 - Arizona State Historic Preservation Office
 - Buckeye Water Conservation District
 - Phoenix Goodyear Airport
 - Western Area Power Administration
- Responses indicate
 - minimal concerns
 - support for the Preferred Route
 - provided standard biological mitigation measures

Devin Petry

From: Noel Carter <ncarter@bwddd.com >
Sent: Monday, August 26, 2019 2:34 PM
To: Devin Petry
Subject: [EXTERNAL] APS transmission line route alternatives

Follow Up Flag: Follow up
Flag Status: Flagged

Mr. Petry,

I am writing to you on behalf of Pioneer 2005 LLC in reference to your letter dated July 18, 2019. Included in your letter was a preferred route and two alternative routes for the Wildcat and Cyclone transmission line projects. Pioneer 2005 LLC will support the preferred route and oppose the two alternates and strongly encourage the Arizona Corporation Commission to grant APS the preferred route. Pioneer 2005 LLC will not be willing to give easement for any other routes and feels that the preferred route has minimal impact on Pioneers property and neighboring properties.

Please contact me if you need any further support.

Existing Plans Exhibit H

- Responses received from
 - Arizona Game and Fish Department
 - Arizona State Historic Preservation Office
 - Buckeye Water Conservation District
 - Phoenix Goodyear Airport
 - Western Area Power Administration
- Responses indicate
 - minimal concerns
 - support for the Preferred Route
 - provided standard biological mitigation measures

Devin Petry

From: Uribe, Eduardo <Uribe@WAPA.GOV>
Sent: Friday, August 02, 2019 5:53 AM
To: Devin Petry
Subject: [EXTERNAL] Response to Letter
Attachments: Environment Planning Group Letter.pdf

Mr. Devin Petry,

I reviewed your proposed routes. While we won't have any specific comments pertaining to the environmental aspects of the project, I would like to add and not that your route listed as preferred is also a route that I believe is best for both parties. Although in either alternate #1 or alternate #2, our lines don't run parallel for a long distance, I do believe that we run the chance of having to coordinate more efforts with those configurations than the preferred route.

I did consult with other groups here in the office and at this time, we don't have any comments or concerns with your path forward with a formal design. At this time, and doubtfully in the near future, we have no plans on upgrading either of the circuits not any additional development plans.

I've been in touch with Ryan Adams and will coordinate with him on the License Agreement that must be in place before construction in our easement.

Thank you,

Eduardo D. Uribe | Electrical Engineer
Department of Energy
Western Area Power Administration | Desert Southwest Region
(O) 602.605.2914 | (M) 480.493.7542



**Western Area
Power Administration**





Existing Plans Exhibit H

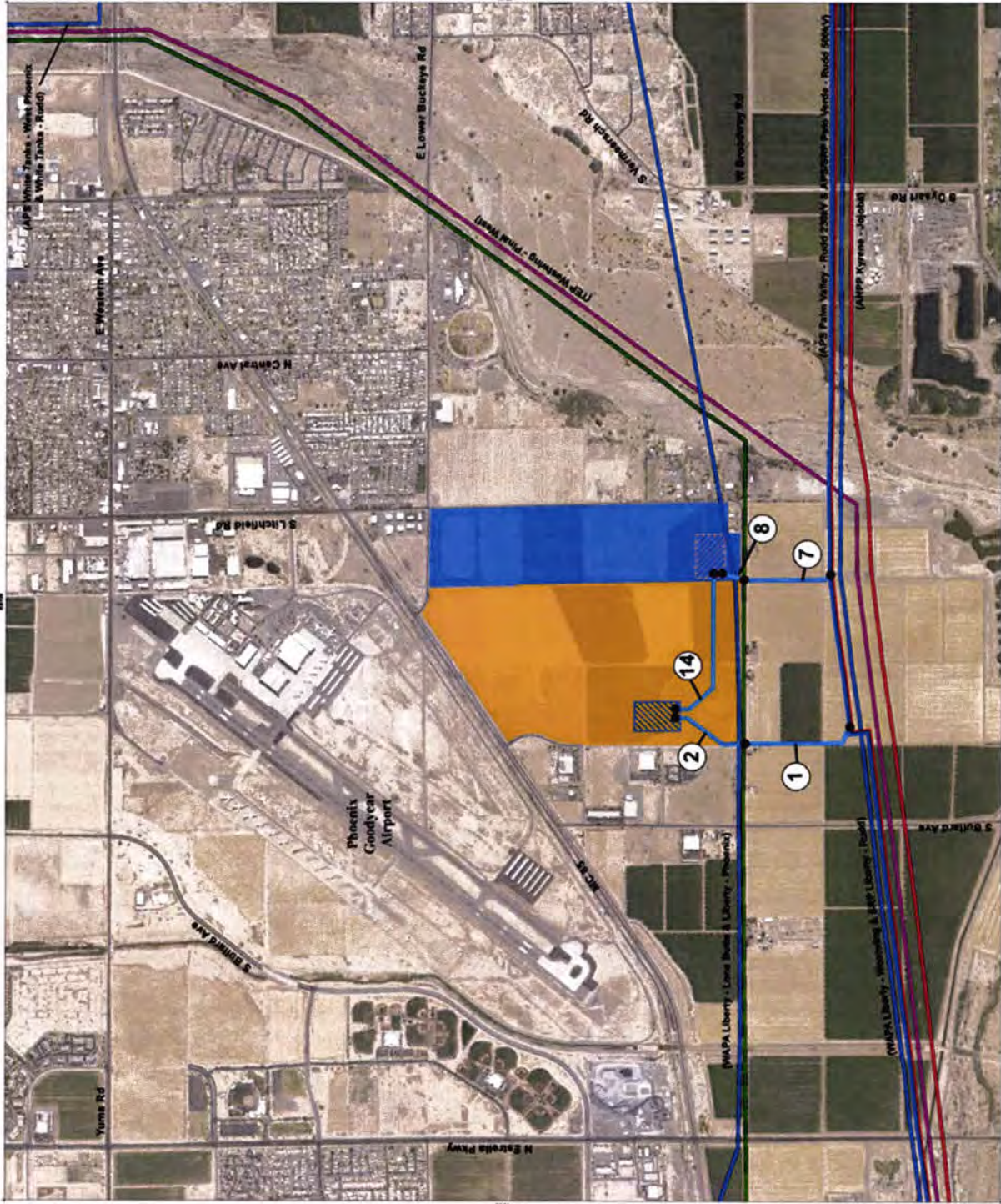
- Responses received from
 - Arizona Game and Fish Department
 - Arizona State Historic Preservation Office
 - Buckeye Water Conservation District
 - Phoenix Goodyear Airport
 - Western Area Power Administration
- Responses indicate
 - minimal concerns
 - support for the Preferred Route
 - provided standard biological mitigation measures

Wildcat and Cyclone 230kV Transmission Line Project

Preferred Route

- Project Features**
-  230kV Transmission Line Preferred Route
 -  Wildcat Site
 -  TS15 Substation
 -  Cyclone Site
 -  TS18 Substation
 -  Link Number
 -  Link Node

- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line



August 2019







Environmental Conclusions

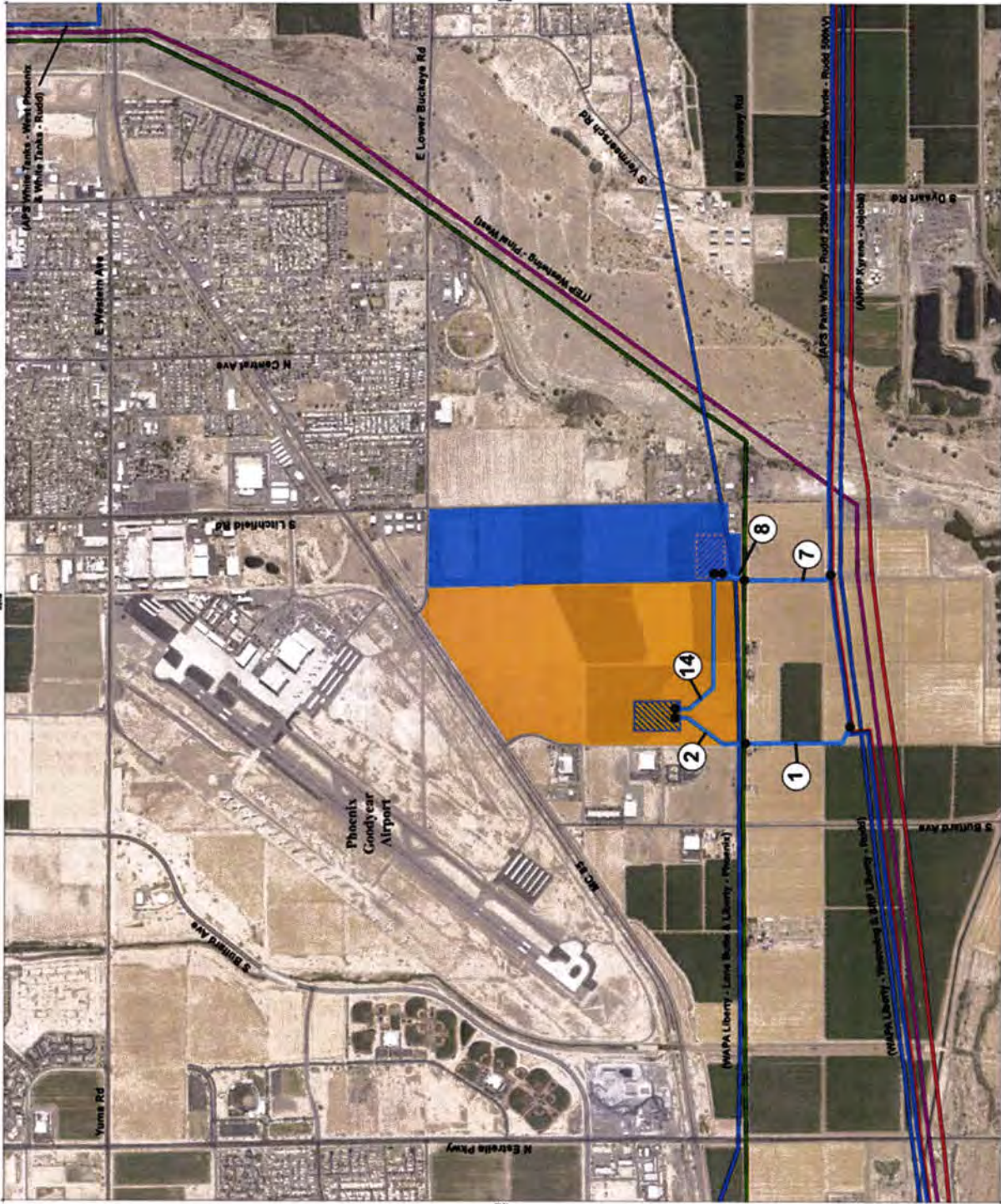


Wildcat and Cyclone 230kV Transmission Line Project

Preferred Route

- Project Features**
-  230kV Transmission Line Preferred Route
 -  Wildcat Site
 -  TS15 Substation
 -  Cyclone Site
 -  TS18 Substation
 -  Link Number
 -  Link Node

- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  345kV Transmission Line
 -  500kV Transmission Line







 August 2019







Environmental Compatibility

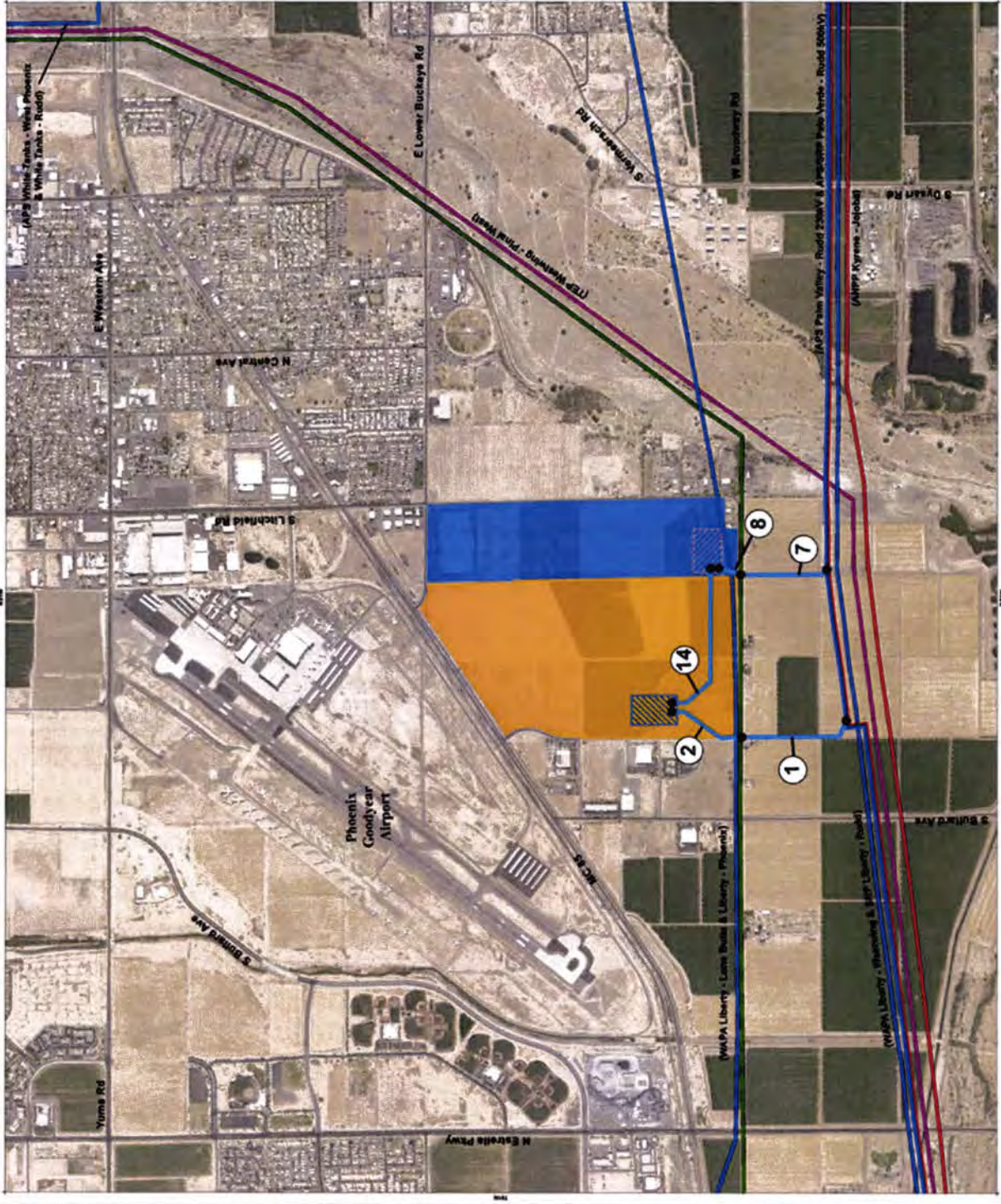
- All Project alternatives are environmentally compatible
- All Project alternatives conform with applicable management plans
- All Project alternatives are located within an existing industrial/utility hub, in close proximity to existing 500/345/230/69kV transmission lines
- All Project alternatives would result in minimal effects to existing and planned land use, recreation, visual, cultural, and biological resources

Wildcat and Cyclone 230kV Transmission Line Project

Preferred Route

- Project Features**
-  230kV Transmission Line Preferred Route
 -  Wildcat Site
 -  TS15 Substation
 -  Cyclone Site
 -  TS18 Substation
 -  Link Number
 -  Link Node

- Existing Transmission Facilities**
-  69kV Transmission Line
 -  230kV Transmission Line
 -  34.5kV Transmission Line
 -  500kV Transmission Line



August 2019

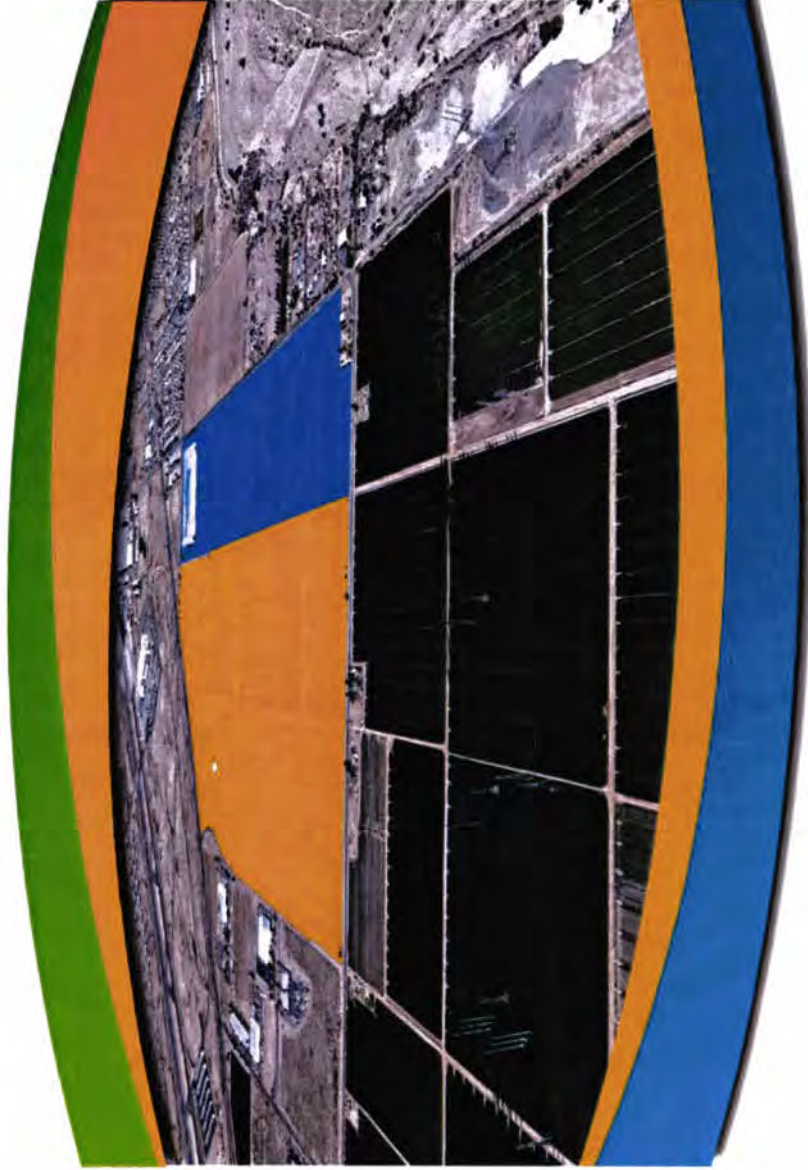




Preferred Route

- Shortest of all alternatives, minimizing environmental resource impacts
- Avoids residential land use impacts
- Limits crossings of existing transmission and subtransmission lines
- Maximizes the placement of Project facilities on data center parcels

Application for a
**Certificate of Environmental Compatibility
Wildcat and Cyclone 230kV Transmission Line Project**



Prepared for | **Arizona Power Plant and Transmission Line Siting Committee**

Submitted by | **Arizona Public Service Company**

August 2019

Wildcat and Cyclone 230kV Transmission Line Project

**Application for a Certificate
of Environmental Compatibility**

Case No. 183

Prepared for

Arizona Power Plant and Transmission Line Siting Committee



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WILDCAT AND CYCLONE 230KV TRANSMISSION LINE PROJECT SITING COMMITTEE ROUTE TOUR ITINERARY

The route tour will begin at the Comfort Suites, located at 15575 West Roosevelt Street, Goodyear, AZ 85338. A chartered bus provided by APS will transport attendees. The attached route tour map shows the route tour path and route stops that will be reviewed.

Start of Tour: September 25, 2019 at 9:00 a.m.

**Comfort Suites Hotel
15575 W Roosevelt St
Goodyear, AZ 85338**

ROUTE STOP #1 – NEAR WILDCAT DATA CENTER (33.410, -112.371)

From the Comfort Suites Hotel, the tour will travel south along South Estrella Parkway for 3.40 miles to MC85. The tour will then turn east-northeast and travel along MC85 for 1.10 miles. The tour will then turn south on to South Bullard Avenue and travel 0.32 miles to West La Estrella where it will turn east and travel an additional 0.25 miles towards the future Wildcat Data Center location.

ROUTE STOP #2 – WEST BROADWAY ROAD NEAR RESIDENCE (33.406, -112.371)

From Route Stop #1, the tour will head about 0.25 miles west along West La Estrella back towards South Bullard Avenue. The tour will turn south on South Bullard Avenue and travel 0.25 miles towards West Broadway Road. At this intersection, the tour will turn east and travel 0.25 miles and stop along the south side of West Broadway Road, proximate to one residence.

ROUTE STOP #3 – WEST BROADWAY ROAD BETWEEN TWO RESIDENCES (33.406, -112.366)

From Route Stop #2, the tour will continue east for 0.25 miles on West Broadway Road and stop along the south side of West Broadway Road, adjacent to two residences.

ROUTE STOP #4 – WEST BROADWAY ROAD SOUTH OF CYCLONE DATA CENTER (33.406, -112.361)

From Route Stop #3, the tour will continue east for 0.25 miles on West Broadway Road and stop along the south side of West Broadway Road, south of the future Cyclone Data Center location.

ROUTE STOP #5 - INTERSECTION OF WEST BROADWAY ROAD AND SOUTH LITCHFIELD ROAD (33.406, -112.357)

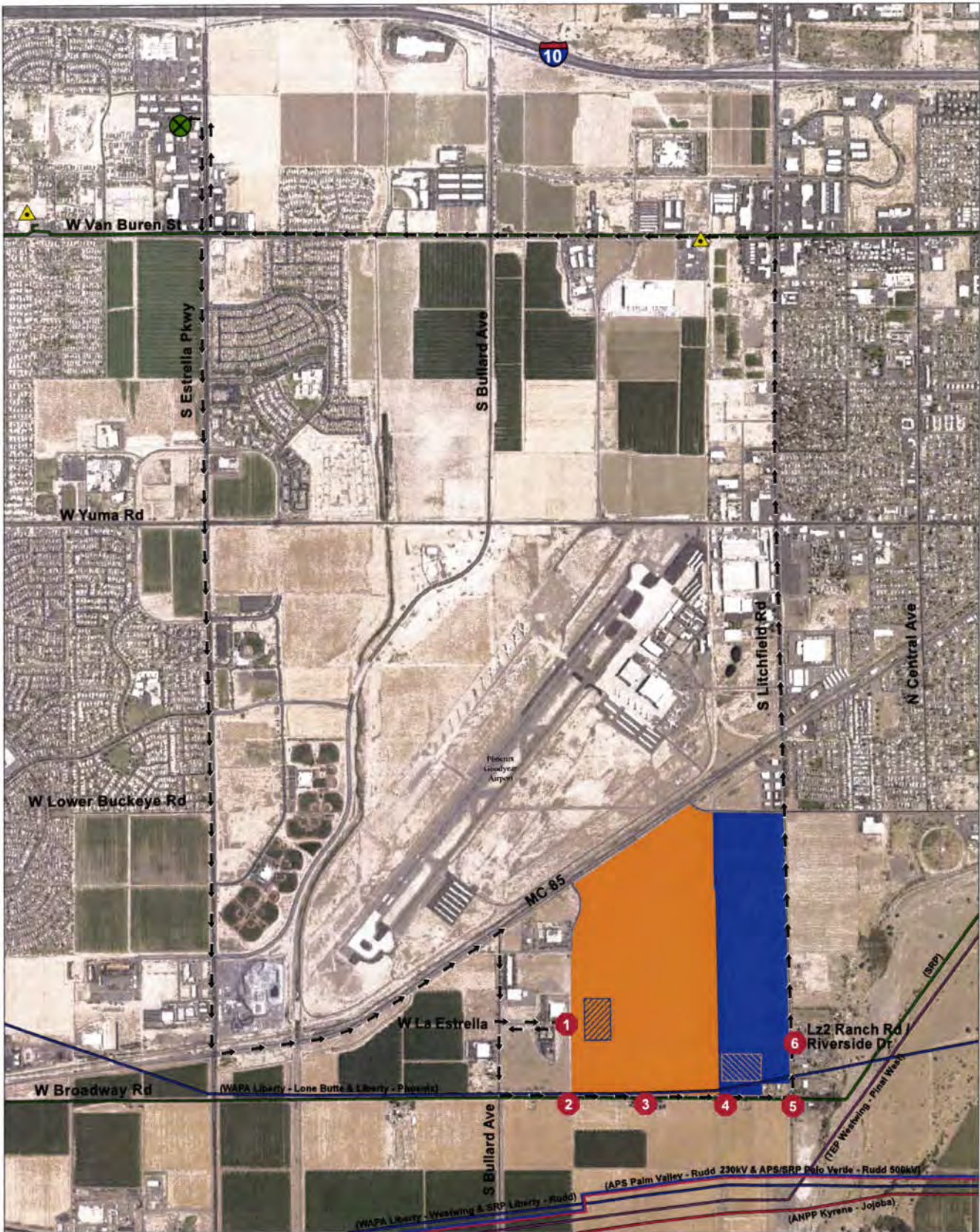
From Route Stop #4, the tour will continue east on West Broadway Road for 0.25 miles and stop at the southwest intersection of West Broadway Road and South Litchfield Road.

ROUTE STOP #6 - SOUTH LITCHFIELD ROAD NEAR RESIDENCES (33.409, -112.357)

From Route Stop #5, the tour will travel north for 0.20 miles along South Litchfield Road and stop on the east side of South Litchfield Road at the intersection with Lz2 Ranch Road/Riverside Drive and proximate to residences.

RETURN TO COMFORT SUITES HOTEL

From Route Stop #6, the tour will head north along South Litchfield Road for 2.80 miles to West Van Buren Street. The tour will turn west onto West Van Buren Street and travel 2.00 miles to North Estrella Parkway. At North Estrella Parkway, the tour will turn north and travel 0.40 miles and return to the Comfort Suites Hotel.



Route Tour

- Comfort Suites - Start/Finish
- Direction of Route
- Route Stop

Project Features

- Wildcat Site
- TS15 Substation
- Cyclone Site
- TS18 Substation

Existing Transmission Facilities

- 69kV Substation
- 69kV Transmission Line
- 230kV Transmission Line
- 345kV Transmission Line
- 500kV Transmission Line

**Wildcat and Cyclone
230kV Transmission
Line Project**

Route Tour



September 2019



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**BEFORE THE ARIZONA POWER PLANT
AND TRANSMISSION LINE SITING COMMITTEE**

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IN THE MATTER OF THE
APPLICATION OF ARIZONA PUBLIC
SERVICE COMPANY, IN
CONFORMANCE WITH THE
REQUIREMENTS OF A.R.S. § 40-360 *ET*
SEQ., FOR A CERTIFICATE OF
ENVIRONMENTAL COMPATIBILITY
AUTHORIZING THE WILDCAT AND
CYCLONE TRANSMISSION LINE
PROJECT, WHICH INCLUDES THE
CONSTRUCTION OF NEW 230-
KILOVOLT SINGLE CIRCUIT
TRANSMISSION LINES, WITH THE
INTERCONNECTION ORIGINATING AT
THE EXISTING APS PALM VALLEY-
RUDD 230-KV TRANSMISSION LINE
(RUDD TRANSMISSION LINE),
PROCEEDING TO THE TS15
SUBSTATION, NE QUARTER OF THE
SW QUARTER OF SECTION 21 OF
TOWNSHIP 1 NORTH, RANGE 1 WEST,
CONTINUING TO THE TS18
SUBSTATION, SE QUARTER OF THE
SE QUARTER OF SECTION 21 OF
TOWNSHIP 1 NORTH, RANGE 1 WEST,
AND CONTINUING SOUTH
TERMINATING AT THE RUDD
TRANSMISSION LINE LOCATED
WITHIN MARICOPA COUNTY,
ARIZONA.

DOCKET NO. L-00000D-19-0196-00183
Case No. 183

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CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY

Introduction

Pursuant to notice given as provided by law, the Arizona Power Plant and
Transmission Line Siting Committee (Committee) held public hearings on September 24
through September --, 2019, in Goodyear, Arizona, in conformance with the
requirements of the Arizona Revised Statutes (A.R.S.) § 40-360 *et seq.* for the purpose
of receiving evidence and deliberating on the August 14, 2019 Application of Arizona
Public Service Company (Applicant) for a Certificate of Environmental Compatibility
(Certificate) in the above-captioned case (Wildcat and Cyclone 230 kV Transmission

1 Line Project or Project).

2 The following members and designees of members of the Committee were present
3 at one or more of the hearing days for the evidentiary presentations, public comment,
4 and/or for the deliberations:

- | | | |
|----|-----------------------|---|
| 5 | Thomas Chenal | Chairman, Designee for Arizona Attorney General |
| 6 | Leonard Drago | Designee for Director, Arizona Department of 7 Environmental Quality |
| 8 | John R. Riggins | Designee for Director, Arizona Department of Water Resources |
| 9 | Laurie A. Woodall | Designee of the Chairman, Arizona Corporation 10 Commission |
| 11 | Jack Haenichen | Appointed Member, representing the general public |
| 12 | Patricia A. Noland | Appointed Member, representing the general public |
| 13 | Karl Gentles | Appointed Member, representing the general public |
| 14 | Mary Hamway | Appointed Member, representing the cities and towns |
| 15 | James A. Palmer | Appointed Member, representing agriculture |
| 16 | Gilberto Villegas Jr. | Appointed Member, representing counties |

17 The Applicant was represented by J. Matthew Derstine of Snell & Wilmer and
18 Linda J. Benally of APS. The following parties were granted intervention pursuant to
19 A.R.S. § 40-360.05: _____.

20 At the conclusion of the hearing, the Committee, after considering the (i)
21 Application, (ii) evidence, testimony, and exhibits presented by the Applicant, and (iii)
22 comments of the public, and being advised of the legal requirements of the A.R.S.
23 §§ 40-360 through 40-360.13, upon motion duly made and seconded, voted to
24 to **grant/deny** Applicant, its successors and assigns, this Certificate for construction
25 of the Project as described below.

26 **Overview of the Project**

27 The Project is being developed to serve two separate but adjacent data center
28 projects located northwest of the intersection of W. Broadway Road and S. Litchfield

1 Road in Goodyear, and referred to as the Wildcat Data Center and the Cyclone Data
2 Center. The Project will consist of two (2) new single-circuit 230kV transmission lines
3 designed to deliver power to the data center projects, from the nearby existing Palm
4 Valley to Rudd 230kV transmission line located approximately 0.30 to 0.35 miles to the
5 south of the Wildcat Data Center and Cyclone Data Center sites. Applicant plans to use
6 steel double-circuit capable monopoles and H-frame structures for the Project.

7 A map describing the approved Project location is set forth in **Exhibit A**.

8 **CONDITIONS**

9 This Certificate is granted upon the following conditions: [CEC 181 - 138kV
10 Transmission Line]

11 1. This authorization to construct the Project shall expire ~~ten~~**five** (10**5**) years
12 from the date this Certificate is approved by the Arizona Corporation Commission, with
13 or without modification. Construction of the Project shall be complete, such that the
14 Project is in-service within this ~~ten~~**five**-year timeframe. However, prior to the expiration
15 of the time period, ~~TEP-Applicant~~ may request that the Commission extend the time
16 limitation. [Decision 76964, "Order Approving Certificate of Environmental
17 Compatibility with Modifications" (Case 181), Condition 1].

18 2. In the event that the Project requires an extension of the term(s) of this
19 Certificate prior to completion of construction, ~~TEP-Applicant~~ shall file such a time
20 extension request at least one hundred eighty (180) days prior to the expiration date of
21 the Certificate. ~~TEP-Applicant~~ shall use reasonable means to promptly notify all cities
22 and town within a five (5) mile radius of the centerline of the Project and all landowners
23 and residents within one (1) mile radius of the centerline of the Project, all persons who
24 made public comment at this proceeding who provided a mailing or email address, and
25 all parties to this proceeding. The notification provided will include the request and the
26 date, time, and place of the hearing or open meeting during which the Commission will
27 consider the request for extension. Notification shall be no more than three (3) business
28 days after ~~TEP-Applicant~~ is made aware of the hearing date or the open meeting

1 date. [CEC 181 - 138kV Transmission Line, Condition 2]

2 3. During the development, construction, operation, maintenance and
3 reclamation of the Project, TEP-Applicant shall comply with all existing applicable air
4 and water pollution control standards and regulations, and with all existing applicable
5 statutes, ordinances, master plans, and regulations of any governmental entity having
6 jurisdiction, including, but not limited to, the United States of America, the State of
7 Arizona, Pima-Maricopa County, the City of ~~Tucson~~ Goodyear, and their agencies or
8 subdivisions, including but not limited to the following:

9 3.1 All applicable land use regulations;

10 3.2 All applicable zoning stipulations and conditions, including but not limited
11 to landscaping and dust control requirements;

12 3.3 All applicable water use, discharge and/or disposal requirements of the
13 Arizona Department of Water Resources and the Arizona Department of
14 Environmental Quality;

15 3.4 All applicable noise control standards; and

16 3.5 All applicable regulations governing storage and handling of hazardous
17 chemicals and petroleum products. [CEC 181 - 138kV Transmission Line,
18 Condition 3]

19 4. TEP-Applicant shall obtain all approvals and permits necessary to
20 construct, operate and maintain the Project required by any government entity having
21 jurisdiction including, but not limited to, the United States of America, the State of
22 Arizona, Pima-Maricopa County, and the City of ~~Tucson~~ Goodyear. [CEC 181 - 138kV
23 Transmission Line, Condition 4]

24 5. TEP-Applicant shall comply with the Arizona Game and Fish Department
25 (“AGFD”) guidelines for handling protected animal species, should any be encountered
26 during construction and operation of the Project, and shall consult with AGFD a
27 necessary on other issues concerning wildlife. [CEC 181 - 138kV Transmission Line,
28 Condition 5]

1 6. ~~TEP~~Applicant shall design the Project to incorporate reasonable measures
2 to minimize impacts to avian species. Such measures will be accomplished through
3 compliance with the 2006 standards of the Avian Power Line Interaction Committee;
4 and include the application of recommended measures to minimize the risk of collision,
5 as described in the 2012 guidelines of the Avian Power Line Interaction Committee.
6 [CEC 181 - 138kV Transmission Line, Condition 6]

7 7. ~~TEP~~Applicant shall consult with the City of ~~Tucson~~ Goodyear with
8 respect to cultural resources. If any archeological, paleontological, or historical site or a
9 significant object is discovered on state, county or municipal land during the
10 construction or operation of the Project, ~~TEP~~Applicant or its representative in charge
11 shall promptly report the discovery to the Director of the Arizona State Museum
12 (“ASM”), and in consultation with the Director, shall immediately take all reasonable
13 steps to secure and maintain the preservation of the discovery as required by A.R.S. §
14 41-844. ~~TEP~~Applicant shall comply with the notice and salvage requirements of the
15 Arizona Native Plant Law (A.R.S. § 3-901 *et seq.*) and shall, to the extent feasible,
16 minimize the destruction of native plants during the construction and operation of the
17 Project. [CEC 181 - 138kV Transmission Line, Condition 7]

18 8. ~~TEP~~Applicant shall make every reasonable effort to promptly investigate,
19 identify and correct, on a case-specific basis, all complaints of interference with radio or
20 television signals from operation of the Project addressed in this Certificate and where
21 such interference is caused by the Project take reasonable measures to mitigate such
22 interference. ~~TEP~~Applicant shall maintain written records for a period of five (5) years
23 of all complaints of radio or television interference attributable to operations, together
24 with the corrective action taken in response to each complaint. All complaints shall be
25 recorded to include notation on the corrective action taken. Complaints not leading to a
26 specific action or for which there was no resolution shall be noted and explained. Upon
27 request, the written records shall be provided to the Staff of the Commission. ~~TEP~~
28 Applicant shall respond to complaints and implement appropriate mitigation measures.

1 In addition, the Project shall be evaluated on a regular basis so that damaged insulators
2 or other line materials that could cause interference are repaired or replaced in a timely
3 manner. [CEC 181 - 138kV Transmission Line, Condition 8]

4 9. If human remains and/or funerary objects are encountered on private land
5 during the course of any ground-disturbing activities related to the construction or
6 maintenance of the Project, TEP-Applicant shall cease work on the affected area of the
7 Project and notify the Director of the Arizona State Museum as required by A.R.S. § 41-
8 865. [CEC 181 - 138kV Transmission Line, Condition 9]

9 10. Within one hundred twenty (120) days of the Commission's decision
10 approving this Certificate, TEP-Applicant shall post signs in or near public rights of
11 way, to the extent authorized by law, along the route of the Project giving notice of the
12 Project. Such signage shall be no smaller than a roadway sign. The signs shall advise:

- 13 a. Future site of an TEP-APS power line
- 14 b. A phone number and website for public information regarding the
15 Project.

16 Such signs shall be inspected at least once annually and, if necessary, be repaired
17 or replaced, and removed at the completion of construction. [CEC 181 - 138kV
18 Transmission Line, Condition 10]

19 11. At least ninety (90) days before construction commences on the Project,
20 TEP-Applicant shall provide cities and towns within five (5) miles of the Project, Pima
21 Maricopa County, and known builders and developers who are building upon or
22 developing land within one (1) mile of the centerline of the Project with a written
23 description, including height and width measurements of all structure types, of the
24 Project. The written description shall identify the location of the Project and contain a
25 pictorial depiction of the facilities. TEP-Applicant shall also encourage the developers
26 and builders to include this information in their disclosure statements. [CEC 181 -
27 138kV Transmission Line, Condition 11]

28 12. TEP-Applicant shall use non-specular conductor and non-reflective

1 surfaces for the transmission line structures on the Project. [CEC 181 - 138kV
2 Transmission Line, Condition 12]

3 13. ~~TEP~~-Applicant shall be responsible for arranging that all field personnel
4 involved in the Project receive training as to proper ingress, egress, and on-site working
5 protocol for environmentally sensitive areas and activities. Contractors employing such
6 field personnel shall maintain records documenting that the personnel have received
7 such training. [CEC 181 - 138kV Transmission Line, Condition 13]

8 14. ~~TEP~~-Applicant shall follow the most current Western Electricity
9 Coordinating Council (“WECC”) and North American Electric Reliability Corporation
10 (“NERC”) planning standards, as approved by the Federal Energy Regulatory
11 Commission (“FERC”), and National Electrical Safety Code (“NESC”) standards and
12 Federal Aviation Administration (“FAA”) regulations. [CEC 181 - 138kV Transmission
13 Line, Condition 14]

14 15. ~~TEP~~-Applicant shall participate in good faith in state and regional
15 transmission study forums to coordinate transmission expansion plans related to the
16 Project and to resolve transmission constraints in a timely manner. [CEC 181 - 138kV
17 Transmission Line, Condition 15]

18 16. When Project facilities are located parallel to and within one-hundred
19 (100) feet of any existing natural gas or hazardous liquid pipeline, ~~TEP~~-Applicant shall:

- 20 a. Ensure grounding and cathodic protection studies are performed to show
21 that the project’s location parallel to and within one-hundred (100) feet of
22 such pipeline results in no material adverse impacts to the pipeline or to
23 public safety when both the pipeline and the project are in operation. ~~TEP~~
24 Applicant shall take appropriate steps to ensure that any material adverse
25 impacts are mitigated. ~~TEP~~-Applicant shall provide the Commission Staff
26 and file with Docket Control a copy of the studies performed and
27 additional mitigation, if any, that were implemented as part of its annual
28 compliance certification letter; and

1 b. Ensure that studies are performed simulating an outage of the Project that
2 may be caused by the collocation of the Project parallel to and within one-
3 hundred (100) feet of the existing natural gas or hazardous liquid pipeline.
4 The studies should either: i) show that such simulated outage does not
5 result in customer outages; or ii) include operating plans to minimize any
6 resulting customer outages. ~~TEP~~-Applicant shall provide a copy of the
7 study results to the Commission Staff and file them with Docket Control
8 as part of ~~TEP~~Applicant's annual compliance certification letter. [CEC
9 181 - 138kV Transmission Line, Condition 16]

10 17. ~~TEP~~-Applicant shall submit a compliance certification letter annually,
11 identifying progress made with respect to each condition contained in this Certificate,
12 including which conditions have been met. The letter shall be submitted to
13 Commission's Docket Control commencing on ~~October 1, 2019~~ December 1, 2019.
14 Attached to each certification letter shall be documentation explaining how compliance
15 with each condition was achieved. Copies of the letter, along with the corresponding
16 documentation, shall be submitted to the Arizona Attorney General's Office. With
17 respect to the Project, the requirement for the compliance letter shall expire on the date
18 the Project is placed into operation. Notification of such filing with Docket Control shall
19 be made to the Board of Supervisors for ~~Pima-Maricopa~~ County, the City of ~~Tucson~~
20 Goodyear, all parties to this Docket, and all parties who made a limited appearance in
21 this Docket. [CEC 181 - 138kV Transmission Line, Condition 17] [APS: Requested to
22 align with existing CEC Compliance Filing date.]

23 18. ~~TEP~~-Applicant shall provide a copy of this Certificate to the Board of
24 Supervisors for ~~Pima-Maricopa~~ County and the City of Goodyear, ~~South Wilmot and~~
25 ~~TAA~~. [CEC 181 - 138kV Transmission Line, Condition 18]

26 19. Any transfer or assignment of this Certificate shall require the assignee or
27 successor to assume in writing all responsibilities of ~~TEP~~-Applicant listed in this
28

1 Certificate and its conditions as required by A.R.S. § 40-360.08(A) and R14-3-213(F) of
2 the Arizona Administrative Code. [CEC 181 - 138kV Transmission Line, Condition 19]

3 20. In the event Applicant, its assignee, or successor, seeks to modify the
4 Certificate terms at the Commission, it shall provide copies of such request to the Board
5 of Supervisors for ~~Pima-Maricopa~~ County, the City of ~~Tucson~~ Goodyear, all parties to
6 this Docket, and all parties who made a limited appearance in this Docket. [CEC 181 -
7 138kV Transmission Line, Condition 20]

8 21. The Certificate Conditions shall be binding on ~~TEP~~Applicant, its
9 successors, assignee(s), and transferees and any affiliates, agents, or lessees of ~~TEP~~
10 Applicant who have a contractual relationship with ~~TEP~~Applicant concerning the
11 construction, operation, maintenance, or reclamation of the Project. ~~TEP~~Applicant shall
12 provide in any agreement(s) or lease(s) pertaining to the Project that the contracting
13 parties and/or lessee(s) shall be responsible for compliance with the Conditions set forth
14 herein, and Applicant's responsibilities with respect to compliance with such Conditions
15 shall not cease or be abated by reason of the fact that ~~TEP~~Applicant is not in control of
16 or responsible for operation and maintenance of the Project facilities. [CEC 181 -
17 138kV Transmission Line, Condition 21]

18 22. Within one hundred twenty (120) days of the Commission's decision
19 granting this Certificate, ~~TEP~~Applicant shall make good faith efforts to commence
20 discussions with private landowners on whose property the Project is located to identify
21 the specific location of the right of way and alternatives for placement of poles. A copy
22 of this Certificate shall be provided to such private landowners, and a description of the
23 good faith efforts and discussions shall be included in the annual compliance
24 certification letter. [CEC 181 - 138kV Transmission Line, Condition 22]

25 23. ~~TEP~~Applicant shall pursue reasonable efforts to work with private
26 landowners on whose property the Project will be located to mitigate the impacts of the
27 location, construction, and operation of the Project or private land and negotiate such
28 right of way agreements in good faith. ~~TEP intends and shall exert good faith efforts to~~

1 ~~locate the 100 foot right of way directly adjacent to the west edge of south Swan Road~~
2 ~~right of way where adjacent to South Wilmot property.~~ Any such right-of-way
3 agreement shall, where practicable and after consultation with the landowner, require
4 Applicant TEP, at a minimum to (a) use existing roads for construction and access where
5 practicable, (b) minimize impacts to wildlife, (c) minimize vegetation disturbance
6 outside of the Project right-of-way, particularly in drainage channels and along stream
7 banks, and (d) revegetate native areas following construction disturbance unless
8 revegetation is waived by the landowner. [CEC 181 - 138kV Transmission Line,
9 Condition 23]

10 ~~24. Once all right of way has been acquired, the applicable corridor will be~~
11 ~~null and void.~~ [Decision 76964, "Order Approving Certificate of Environmental
12 Compatibility with Modifications" (Case 181), Condition 24].

13 ~~25.24. Applicant agrees to relocate new facilities parallel to the East Old Vail~~
14 ~~Connection Road pursuant to Northern 2 Alternative under this Certificate, at~~
15 ~~Applicant's cost, should those facilities conflict with the future ADOT plans for~~
16 ~~interstate construction.~~ [CEC 181 - 138kV Transmission Line, Condition 25] [APS:
17 Deleted condition as it was specific to Irv-Kino.]

18 **FINDINGS OF FACT AND CONCLUSIONS OF LAW**

19 This Certificate incorporates the following Findings of Fact and Conclusions of
20 Law:

21 1. The Project aids the state and the southwest region in meeting the need for
22 an adequate, economical, and reliable supply of electric power.

23 2. The Project aids the state in preserving a safe and reliable electric
24 transmission system.

25 3. During the course of the hearing, the Committee considered evidence on
26 the environmental compatibility on the Project as required by A.R.S. § 40-360 *et seq.*

27 4. The Project and the conditions placed on the Project in this Certificate
28 effectively minimize the impact of the Project on the environment and ecology of the

1 state.

2 5. The conditions placed on the Project in this Certificate resolve matters
3 concerning balancing the need for the Project with its impact on the environment and
4 ecology of the state arising during the course of the proceedings, and, as such, serve as
5 findings and conclusions on such matters.

6 6. The Project is in the public interest because the Project's contribution to
7 meeting the need for an adequate, economical, and reliable supply of electric power
8 outweighs the minimized impact of the Project on the environment and ecology of the
9 state.

10 DATED this ___ day of _____, 2019.

11 THE ARIZONA POWER PLANT AND
12 TRANSMISSION LINE SITING
13 COMMITTEE

14 By: _____
15 Thomas K. Chenal, Chairman
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EXHIBIT A






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**MAP WILL BE PROVIDED AT THE
LINE SITING COMMITTEE HEARING.**

Wildcat and Cyclone 230kV Transmission Line Project

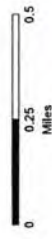
Proposed Notice of Hearing Sign Locations

Project Features

-  Sign Locations
-  Wildcat Site
-  TS15 Substation
-  Cyclone Site
-  TS18 Substation

Existing Transmission Facilities

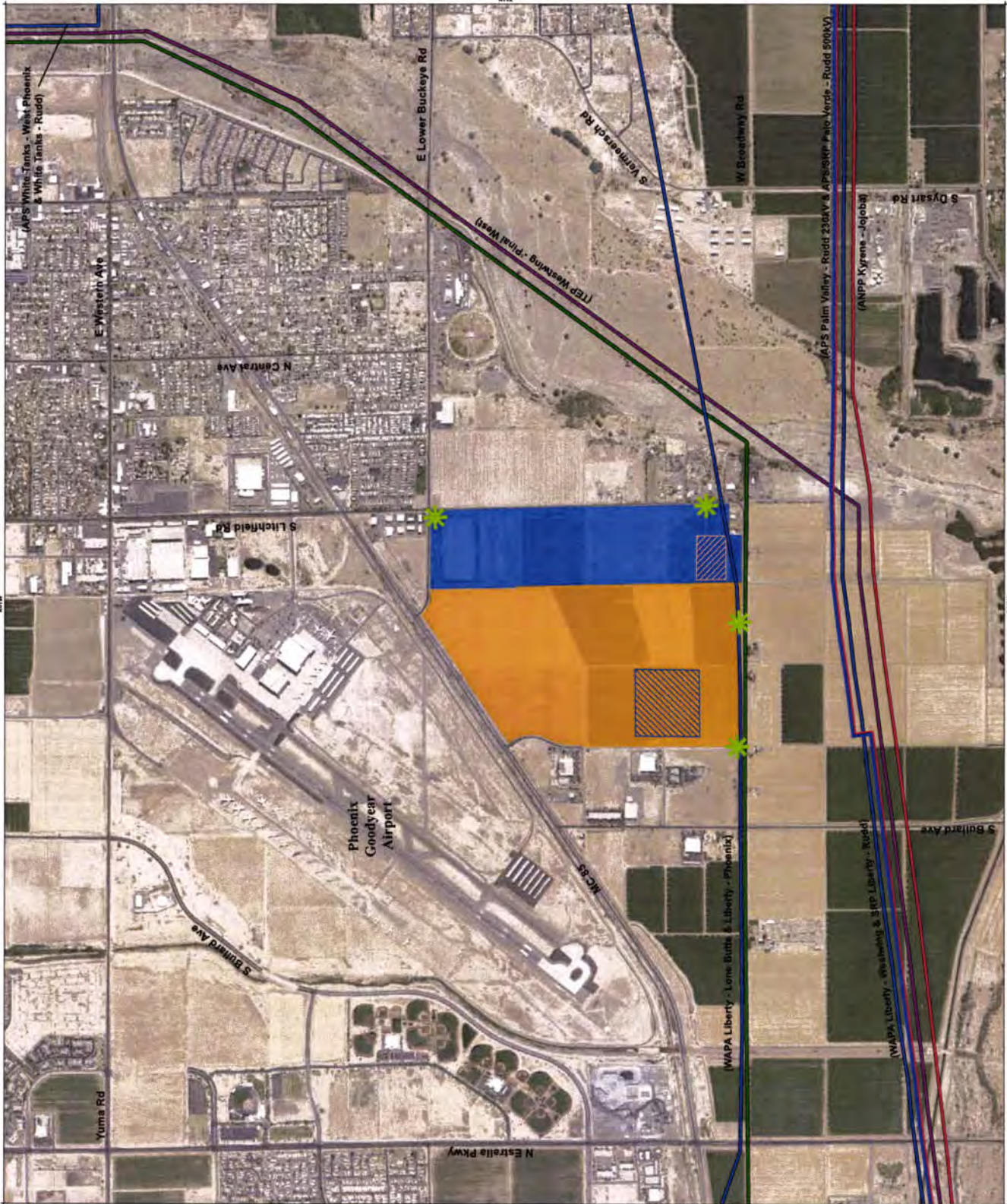
-  69kV Transmission Line
-  230kV Transmission Line
-  345kV Transmission Line
-  500kV Transmission Line



August 2019



\\ps01\shared\GIS\Projects\2019\20190819_aps_230kv_wildcat_cyclone_230kv_sign_locations.mxd



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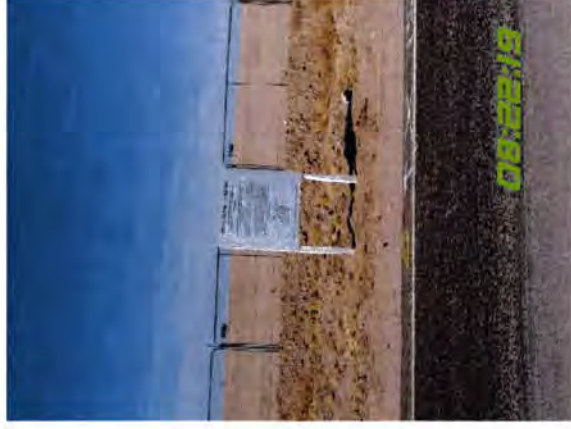
SW corner
Litchfield
& Lower Buckeye



.1 mile North of Broadway Rd
on West Side of Litchfield Rd.
facing Litchfield Road



.3 mile West of Litchfield
Road on North side of
Broadway Rd.



..7 mile West of Litchfield
Road on North side of
Broadway Rd.

COMPANY: APS / EPG

PROJECT NAME: WILDCAT / CYCLONE

PROJECTED COMPLETION DATE:

APPROVED BY:

DATE:



SIGNS | BANNERS | AUTO GRAPHICS | BUSINESS CARDS
ARCHITECTURAL LETTERS | LASER CUTTING | PRINTING

NOTICE OF PUBLIC HEARING

Arizona Public Service Company Wildcat and Cyclone 230kV Transmission Line Project

Arizona Public Service Company invites the public to participate at a public hearing before the Arizona Power Plant and Transmission Line Siting Committee.

| Date | Time | Location |
|-----------------------|--------------------|---|
| September 24, 2019 | 1:00 PM - 5:00 PM | Combs' Super Center |
| September 25-27, 2019 | 9:00 AM - 5:00 PM* | 13875 W Roosevelt Road Goodyear, Arizona 85336 |

*Site visit may take place on September 25, 2019 and will begin at 9:00 AM. Revisions to the hearing or hearing schedule and additional hearing days, if necessary, will be indicated on the Commission website, available at <http://www.azps.com/azps-power-plant-siting-committee>. Public comments will be taken at the hearing as well as at 5:00 PM on September 24, 2019 at the Combs' Super Center. For more information, call 602-483-4338, or visit the following website: www.azps.com/azps



Arizona Corporation Commission Docket No. L800000-20-0100-01001 Case No. 10

NOTICE OF PUBLIC HEARING

Arizona Public Service Company Wildcat and Cyclone 230kV Transmission Line Project

Arizona Public Service Company invites the public to participate at a public hearing before the Arizona Power Plant and Transmission Line Siting Committee.

| Date | Time | Location |
|-----------------------|--------------------|---|
| September 24, 2019 | 1:00 PM - 5:00 PM | Comfort Suites Goodyear |
| September 25-27, 2019 | 9:00 AM - 5:00 PM* | 15575 W Roosevelt Road Goodyear, Arizona 85338 |

*Site tour may take place on September 25, 2019 and will begin at 9:00 AM. Revisions to the hearing or touring schedule and additional hearing days, if necessary, will be noticed on the Commission website, available at <https://www.azcc.gov/arizona-power-plant/meeting-schedule>. Public comment will be taken at the hearing as well as at 5:30 PM on September 24, 2019 at the Comfort Suites Goodyear. For more information, call 602-493-4338, or visit the following website: www.aps.com/siting



Arizona Corporation Commission Docket No. L-00000D-19-0196-00183 Case No. 183



NOTICE OF PUBLIC HEARING

**Arizona Public Service Company
Wildcat and Cyclone 230kV Transmission
Line Project**

Arizona Public Service Company invites the public to participate at a public hearing about the Wildcat Power Plant and Transmission Line Project.

| Date | Time | Location |
|--------------------|-------------------|--|
| September 24, 2019 | 7:00 PM - 9:00 PM | Central Public Exchange |
| September 25, 2019 | 7:00 AM - 9:00 AM | 1700 N. Riverfront Road Scottsdale, Arizona 85258 |

The first public hearing on September 24, 2019 will begin at 7:00 AM. Attendance at the hearing on Friday will be on a first-come, first-served basis. Members will be invited to the Commission on the 25th day of September. Public comments will be accepted on the 25th day of September at the Commission on the 25th day of September at the Central Public Exchange. For more information, call 602-424-2222 or visit the following website: www.azps.com



Arizona Public Service Company Project No. 1,000,000-01-00-0000 (Line No. 01)

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BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE

IN THE MATTER OF THE APPLICATION OF ARIZONA PUBLIC SERVICE COMPANY, IN CONFORMANCE WITH THE REQUIREMENTS OF A.R.S. § 40-360 ET SEQ., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AUTHORIZING THE WILDCAT AND CYCLONE TRANSMISSION LINE PROJECT, WHICH INCLUDES THE CONSTRUCTION OF NEW 230-KILOVOLT SINGLE CIRCUIT TRANSMISSION LINES, WITH THE INTERCONNECTION ORIGINATING AT THE EXISTING APS PALM VALLEY-RUDD 230-KV TRANSMISSION LINE (RUDD TRANSMISSION LINE), PROCEEDING TO THE TS15 SUBSTATION, NE QUARTER OF THE SW QUARTER OF SECTION 21 OF TOWNSHIP 1 NORTH, RANGE 1 WEST, CONTINUING TO THE TS18 SUBSTATION, SE QUARTER OF THE SE QUARTER OF SECTION 21 OF TOWNSHIP 1 NORTH, RANGE 1 WEST, AND CONTINUING SOUTH TERMINATING AT THE RUDD TRANSMISSION LINE LOCATED WITHIN MARICOPA COUNTY, ARIZONA.

DOCKET NO. L-00000D-19-0196-00183 Case No. 183

NOTICE OF HEARING

A PUBLIC HEARING WILL BE HELD before the Arizona Power Plant and Transmission Line Siting Committee (Committee) regarding the Application of Arizona Public Service Company (Applicant or APS) for a Certificate of Environmental Compatibility (CEC) authorizing the construction of the Wildcat and Cyclone 230 kilovolt (kV) Transmission Line Project (Project).

The Project will consist of new single-circuit 230kV transmission lines between the existing APS Palm Valley - Rudd 230kV transmission line and the TS15 Substation and TS18 Substation. The Project is located in the City of Goodyear, Arizona within Maricopa County. A map of the Project is attached as Exhibit A.

The hearing will commence at the Comfort Suites Hotel, 15575 W. Roosevelt Road, Goodyear, Arizona 85338, on September 24, 2019 at 1:00 p.m. The hearing will continue on September 25, 2019 through September 27, as necessary, beginning at 9:00 a.m. on each day, unless a tour is taken. If a tour is taken, it will begin on September 25, 2019, at 9:00 a.m. or an alternative date and time set by the Chairman of the Committee. If any revisions to the hearing schedule are necessary, they will be noticed on the Project website at www.aps.com/siting and on the Arizona Corporation Commission (Commission) website at: <https://www.azcc.gov/arizona-power-plant/meeting-schedule>.

PUBLIC COMMENT WILL BE TAKEN IN A SPECIAL EVENING SESSION ON SEPTEMBER 24, 2019, BEGINNING AT 5:30 P.M., AT THE COMFORT SUITES HOTEL. PUBLIC COMMENT ALSO MAY BE TAKEN AT THE BEGINNING OF EACH HEARING DAY OR AT OTHER TIMES DURING THE HEARING, AT THE DISCRETION OF THE CHAIRMAN OF THE COMMITTEE.

The Chairman of the Committee may, at his discretion, recess the hearing to a time and place to be announced during the hearing, or to be determined after the recess. The date, time, and place at which the hearing will be resumed will be posted on the above-noted Project website and the Commission website. **NOTE: NOTICE OF ANY RESUMED HEARING WILL BE GIVEN; HOWEVER, PUBLISHED NOTICE OF SUCH RESUMED HEARING IS NOT REQUIRED.**

The Committee may conduct a tour of the Project area. The map and itinerary of any such tour will be available at the hearing and posted on the Project website. Members of the public may follow the Committee on the tour in their personal vehicle. During the tour, the Committee may hear testimony at stops on the tour concerning where the stops are located, what is visible at the stops, and the relevance of the location and view to the Application and Project. No other discussion or deliberation concerning the Application will occur during the tour. A court reporter or recording device will record any testimony taken on the tour for transcription.

Maps and detailed information about the Project are contained in the Application, which is available for inspection at the following locations:

- ACC Docket Control Center, Phoenix Office, located at 1200 West Washington Street, Suite 108, Phoenix, Arizona 85007
- Sam Garcia Western Avenue Library, 495 East Western Avenue, Avondale, Arizona 85323
- Goodyear Library, 14455 West Van Buren Street, C-101, Goodyear, Arizona 85338
- APS's website at www.aps.com/siting

Applicant will make available final copies of the pre-filing meeting, pre-hearing conference, and hearing transcripts at each of the above locations and website.

Each county, municipal government, and state agency interested in the Project that desires to be a party to the proceedings shall, not less than ten (10) days before September 24, 2019, file a Notice of Intent to Become a Party with the Director of Utilities, ACC, 1200 West Washington Street, Phoenix, Arizona 85007.

Any domestic non-profit corporation or association formed in whole or in part to promote the conservation of the natural beauty, to protect the environment, personal health or other biological values, to preserve historical sites, to promote consumer interests, to represent commercial or industrial groups, or to promote the orderly development of the area in which the Project is located that desires to become a party to the proceedings shall, not less than ten (10) days before September 24, 2019, file a Notice of Intent to Become a Party with the Director of Utilities, ACC, 1200 West Washington Street, Phoenix, Arizona 85007.

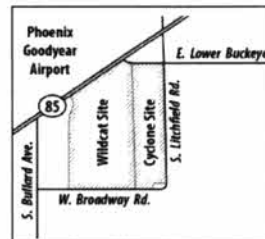
The Committee or the Chairman, at any time deemed appropriate, may deem other persons as parties to the proceedings. Any person may make a limited appearance at a hearing by filing a statement in writing with the Director of Utilities, ACC, 1200 West Washington Street, Phoenix, Arizona 85007, not less than five (5) days before September 24, 2019. A person making a limited appearance will not be a party or have the right to present testimony or cross-examine witnesses.

This proceeding is governed by Arizona Revised Statutes (A.R.S.) §§ 40-360 to 40-360.13 and Arizona Administrative Code R14-3-201 to R14-3-220. No substantive communication not in the public record may be made to any member of the Committee. The written decision of the Committee will be submitted to the Commission pursuant to A.R.S. § 40-360.07. Any person intending to be a party to the proceeding on this matter before the Commission must be a party to the proceeding before the Committee.

ORDERED this 14th day of August, 2019.

/s/ Thomas Chenal, Chairman
Arizona Power Plant and Transmission Line Siting Committee
Office of the Arizona Attorney General

EXHIBIT A—MAP
OF PROJECT AREA



BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE

IN THE MATTER OF THE APPLICATION OF ARIZONA PUBLIC SERVICE COMPANY, IN CONFORMANCE WITH THE REQUIREMENTS OF A.R.S. § 40-360 ET SEQ., FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AUTHORIZING THE WILDCAT AND CYCLONE TRANSMISSION LINE PROJECT, WHICH INCLUDES THE CONSTRUCTION OF NEW 230-KILOVOLT SINGLE CIRCUIT TRANSMISSION LINES, WITH THE INTERCONNECTION ORIGINATING AT THE EXISTING APS PALM VALLEY-RUDD 230-KV TRANSMISSION LINE (RUDD TRANSMISSION LINE), PROCEEDING TO THE TS15 SUBSTATION, NE QUARTER OF THE SW QUARTER OF SECTION 21 OF TOWNSHIP 1 NORTH, RANGE 1 WEST, CONTINUING TO THE TS18 SUBSTATION, SE QUARTER OF THE SE QUARTER OF SECTION 21 OF TOWNSHIP 1 NORTH, RANGE 1 WEST, AND CONTINUING SOUTH TERMINATING AT THE RUDD TRANSMISSION LINE LOCATED WITHIN MARICOPA COUNTY, ARIZONA.

DOCKET NO. L-00000D-19-0196-00183 Case No. 183

NOTICE OF HEARING

A PUBLIC HEARING WILL BE HELD before the Arizona Power Plant and Transmission Line Siting Committee (Committee) regarding the Application of Arizona Public Service Company (Applicant or APS) for a Certificate of Environmental Compatibility (CEC) authorizing the construction of the Wildcat and Cyclone 230 kilovolt (kV) Transmission Line Project (Project).

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PUBLIC COMMENT WILL BE TAKEN IN A SPECIAL EVENING SESSION ON SEPTEMBER 24, 2019, BEGINNING AT 5:30 P.M., AT THE COMFORT SUITES HOTEL. PUBLIC COMMENT ALSO MAY BE TAKEN AT THE BEGINNING OF EACH HEARING DAY OR AT OTHER TIMES DURING THE HEARING, AT THE DISCRETION OF THE CHAIRMAN OF THE COMMITTEE.

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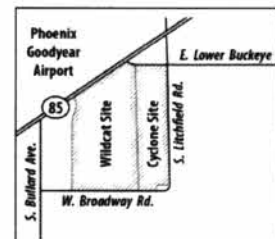
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ORDERED this 14th day of August, 2019.

/s/ Thomas Chenal, Chairman
Arizona Power Plant and Transmission Line Siting Committee
Office of the Arizona Attorney General

EXHIBIT A—MAP
OF PROJECT AREA



AFFIDAVIT OF DISTRIBUTION

STATE OF Arizona
COUNTY OF Maricopa
CITY OF Tempe

I, Kathy Scambelluri, being duly sworn on oath now and during all times herein stated, have been the publisher and or the designated agent of the publication known as, West Valley View ("Publication")

And have full knowledge of the facts herein stated as follows:

The ad for APS ("Ad/Advertiser") was distributed to the Publication's full circulation on the 21 day of August, 2019.

By: Kathy Scambelluri

Subscribed and sworn to before me this 23rd day of August 2019.

Notary Seal:

Lori Dionisio

Notary Public



definitely had to try and stay focused on the game. You don't want to 'big-league' anyone. I tried to acknowledge everyone I saw, but obviously, you have a game going on so you have to focus a little bit."

Rojas was a three-year varsity starter at Millennium, a career .382 hitter who swatted 11 home runs with 67 RBI. His sophomore year, spring 2011, he was a vital piece in the Tigers' run to the semi-finals round in the state tournament. He was also a three-sport athlete, playing football in the fall, soccer in the winter and baseball in the spring.

Those Millennium baseball teams he played on were some of the "better teams I've ever played on," he said.

"Coming up through Millennium were some of the better players I've been around. Coach (Michael) Jacobs was an awesome head coach. He knew how to let us have fun, how to get us to bring it in. We went out and played games hard and had a lot of fun and won a lot of games."

Life has drastically changed for Rojas since he donned a Tigers uniform. After graduating, he played a few years at Paradise Valley Community College before transferring to the University of Hawaii. He was selected by the Astros in the 26th round of the 2017 MLB Draft.

Rojas made quick work in the Astros' organization. Since his call-up from the D-backs' Reno Aces, he's batting .278 with a double, RBI and three runs scored, as of August 16.

Manager Torey Lovullo said he plans to give Rojas plenty of playing time over the final six weeks of the season. He told reporters the newly acquired outfielder is a "tremendous player and a tremendous addition to the team."

Rojas said that comment allows him to relax and focus on playing the kind of baseball that got him here.

"I think one of the biggest things when you come up to the big leagues, the nervousness comes from being afraid to disappoint someone or disappointing your manager and disappointing your teammates," Rojas said. "I think that's the biggest thing that can cause nervousness up here. From the day I walked in, I talked to Torey and he told me he wants me to play just how I play, and my teammates in the clubhouse — same way."

As a hitter, Rojas has been as advertised, hitting safely in four of his first five games. He doesn't expect the magic of the big leagues to ever fade.

"When I was in Denver, that first game, it wasn't until the fifth or sixth inning when we had a break, like a pitching change, where I finally had a chance to look around and be like, 'Wow, this is the big leagues. This is the real deal.'"

BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE

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ORDERED this 14th day of August, 2019.

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Office of the Arizona Attorney General

EXHIBIT A—MAP OF PROJECT AREA



AFFIDAVIT OF DISTRIBUTION

STATE OF Arizona
COUNTY OF Maricopa
CITY OF Tempe

I, Kathy Sgambelluri, being duly sworn on oath now and during all times herein stated, have been the publisher and or the designated agent of the publication known as, West Valley View ("Publication")

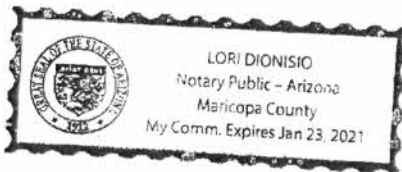
And have full knowledge of the facts herein stated as follows:

The ad for APS ("Ad/Advertiser") was distributed to the Publication's full circulation on the 28 day of August, 2019.

By: Kathy Sgambelluri

Subscribed and sworn to before me
this 28th day of August 2019.

Notary Seal:



Lori Dionisio

Notary Public

able with water on their face. You can do this by first wetting different parts of their face. Move on to a slow trickle of water over your baby's face and down the back of the head.

- Teach bubble blowing. Blowing bubbles in the bath tub teaches children how to clear their nasal passages when they don't have any free hands to plug their nose. One way to do this is to blow ping pong balls across the surface of the water. You can teach bubble blowing by making funny noises while blowing. Not only is this fun for your toddler, it also prepares them for skills they'll need in formal swimming lessons later on.

- Use bath toys or household items that they can interact with in the tub. Not only do bath toys help your little one develop their motor skills, but this kind of play time in the bath allows them to use their limbs more freely in the water.

Eventually, watching your child take his or her first swim strokes across the pool will be just as exciting and memorable as watching them take their first walking steps across the floor. Enrolling in swim lessons may also prove to be one of the most enjoyable, special bonding experiences the two of you will ever experience together.

Bob Hubbard and his wife, Kathy, have become internationally renowned speakers and experts in the field of infant swimming. The Hubbards own three swim schools around the Valley — in Phoenix, Peoria and Mesa. A new, fourth location will open soon in Goodyear. Now celebrating their 21st year in business, their swim schools offer lessons to babies and children, ages two months up to 12 years of age. For more information, call 602-971-4044 or visit hubbardswim.com.



For more stories & the latest news: westvalleyview.com

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/s/ Thomas Chenal, Chairman
Arizona Power Plant and Transmission Line Siting Committee
Office of the Arizona Attorney General

EXHIBIT A—MAP OF PROJECT AREA



current siting projects[completed siting projects](#)[transmission and facility siting](#)[our company](#) [generation & transmission](#) [transmission & facility siting](#) [current siting projects](#)

current siting projects

The Phoenix metropolitan area continues to be a fast-growing urban area, with an ever-increasing demand for electricity. We're developing power lines and siting new facilities to help meet this demand.

[69kV project](#) [69/12kV project](#) **[115kV - 230kV](#)**

cyclone and wildcat 230kV transmission line projects

| voltage | estimated completion date | location |
|---------|---------------------------|---------------------|
| 230 kV | 2020 | South Goodyear area |

project need

Connect two new customer-driven projects into the existing 230kV transmission line located south of Broadway Road between Litchfield Road and Bullard Ave.

project description

The Greater Phoenix region has emerged as one of the top markets in the western U.S. for attracting high-tech companies, including data center or cloud storage companies. Goodyear, in particular, is benefiting from economic development activity that will bring jobs and revenue to the area. Arizona Public Service (APS) is dedicated to providing high-quality, reliable electrical service to support this growth.

With the arrival of these high-tech companies comes a need for new electrical infrastructure in the area. APS has begun studies to determine what electrical facilities are needed and to find appropriate locations for two customer-driven projects located northwest of the intersection of W. Broadway Rd. and S. Litchfield Rd. in Goodyear. APS is working to identify electrical facility locations that are acceptable to the public, regulatory agencies, and meet customer requirements.

project planning

In early 2019, APS hired Environmental Planning Group (EPG) to assist in evaluating route alternatives, to assess potential environmental impacts, and to support the public outreach process. Baseline information about land use, visual, biological, cultural, and recreational resources for the area is being collected. This information will be used for the development of preliminary route alternatives within the study area.

[see more](#)

CEC Filing Documents

- › Pre-Filing Conference
- › Exhibit A of Pre-Filing Conference
- › Exhibit B of Pre-Filing Conference
- › Exhibit C of Pre-Filing Conference
- › Exhibit D of Pre-Filing Conference
- › CEC Application
- › Proposed Transmission Line Routes
- › Notice of Hearing
- › Substitute CEC Application Case 183

Devin Petry

From: Benjamin Mead-Harvey <BenjaminMead-Harvey@mclnaz.org>
Sent: Wednesday, August 14, 2019 2:00 PM
To: Devin Petry
Subject: [EXTERNAL] RE: EPG document for library reference

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Devin,

Here is written confirmation that the document has been delivered to the Goodyear Library and will be made available to citizens upon request.

Best,
Ben



Benjamin Mead-Harvey | Library Manager
Goodyear Library | 602-651-3501

From: Devin Petry <dpetry@epgllc.co>
Sent: Wednesday, August 7, 2019 9:36 AM
To: Benjamin Mead-Harvey <BenjaminMead-Harvey@mclnaz.org>
Subject: RE: EPG document for library reference

Thank you for your email, Mr. Mead-Harvey.

Once the document is complete we will provide a copy to your library, following your direction below. I will likely reach out again prior to sending the document over, as well.

Thanks again.

Devin Petry



From: Benjamin Mead-Harvey <BenjaminMead-Harvey@mclnaz.org>
Sent: Tuesday, August 06, 2019 1:29 PM
To: Devin Petry <dpetry@epgllc.co>
Subject: [EXTERNAL] EPG document for library reference

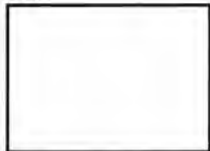
Hi Mr. Petry,

I missed you on the return call, so I thought it'd be easiest to touch base by phone. The Goodyear library is happy to house a document for public review. I believe we receive these from time to time. Feel free to address it "Attn: branch manager". That should always make it to my desk.

Let me know if you have questions or have anything to follow up.

All the best,

Ben



[Benjamin Mead-Harvey](#) | Library Manager

Goodyear Library | 602-651-3501

Disclaimer

The information contained in this communication from the sender is confidential. It is intended solely for use by the recipient and others authorized to receive it. If you are not the recipient, you are hereby notified that any disclosure, copying, distribution or taking action in relation of the contents of this information is strictly prohibited and may be unlawful.

This email has been scanned for viruses and malware, and may have been automatically archived by **Mimecast Ltd**, an innovator in Software as a Service (SaaS) for business. Providing a **safer** and **more useful** place for your human generated data. Specializing in; Security, archiving and compliance. To find out more [Click Here](#).

Devin Petry

From: Laura Truman <ltruman@avondaleaz.gov>
Sent: Thursday, August 29, 2019 8:21 AM
To: Devin Petry
Subject: [EXTERNAL] Re: Wildcat and Cyclone CEC, Public Posting at Sam Garcia Library



Hello Devin,
I finally got this one. I have recieved the folder and it is available for public use.

Thank you,
Laura Truman
Avondale Public Library

Sent from my Verizon, Samsung Galaxy smartphone

----- Original message -----

From: Devin Petry <dpetry@epgllc.co>
Date: 8/29/19 8:16 AM (GMT-07:00)
To: Laura Truman <ltruman@avondaleaz.gov>
Subject: RE: Wildcat and Cyclone CEC, Public Posting at Sam Garcia Library

 **This email arrived from an external source. Please exercise caution when opening attachments or clicking on links.**


Hi Ms. Truman,

I wanted to again follow up on my email requesting your verification that the subject document has been received by your library and has been made available for public review upon request. We would appreciate a response at your earliest convenience so that we may document it as part of our permitting process.

Please let me know if you have any questions or would like to discuss further.

Thank you.

Devin Petry



From: Devin Petry
Sent: Monday, August 26, 2019 5:06 PM
To: ltruman@avondaleaz.gov
Subject: FW: Wildcat and Cyclone CEC, Public Posting at Sam Garcia Library

Hi Ms. Truman,

Thank you for the telephone conversation this afternoon. As we discussed, I have revised your email address in this email to reflect your library's new email domain name.

At your convenience, please reply to this email to verify that the Wildcat and Cyclone CEC Application document has been received by your library and has been made available for public review upon request.

Should you have any questions on the document please don't hesitate to contact me.

Thanks.

Devin Petry



From: Devin Petry

Sent: Wednesday, August 21, 2019 8:20 AM

To: ltruman@avondale.org

Subject: RE: Wildcat and Cyclone CEC, Public Posting at Sam Garcia Library

Hi Ms. Truman,

I wanted to follow up on my email below requesting your verification that the document has been received by your library and has been made available for public review upon request.

Please let me know if you have any questions or would like to discuss further.

Thanks.

Devin Petry



From: Devin Petry

Sent: Wednesday, August 14, 2019 3:23 PM

To: ltruman@avondale.org

Subject: Wildcat and Cyclone CEC, Public Posting at Sam Garcia Library

Ms. Truman,

Thank you for taking the time to meet with me today and to take delivery of the Wildcat and Cyclone CEC Application document at the Sam Garcia Western Avenue Library. As we discussed, I would appreciate it if you could reply to this email to verify that the document has been received by your library and has been made available for public review upon request.

Should you have any questions on the document please don't hesitate to contact me.

Thanks.

Devin Petry
Environmental Planner



4141 north 32nd street, suite 102, phoenix, arizona 85018
dpetry@epgllc.co | 602.956.4370 | www.epgllc.co

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August 30, 2019

Subject: Arizona Public Service Company's (APS or Company) Application for a Certificate of Environmental Compatibility for the Wildcat and Cyclone 230kV Transmission Line Project.

This is the second in a series of mailings to inform you about APS's efforts to determine the appropriate locations for new 230-kilovolt (kV) transmission line routes in Goodyear, Arizona. The 230kV transmission lines are needed to serve two separate but adjacent APS-customer data center projects located northwest of the intersection of West Broadway Road and South Litchfield Road.

BACKGROUND:

APS held a public open house for the Project on June 19, 2019 at the Desert Star Elementary School in Goodyear, Arizona to answer questions and receive comments about the Project. Following the open house, APS reviewed the public comments, completed environmental studies, and refined preliminary 230kV transmission line alternatives. Based on the comments and results of the studies, APS identified a "preferred route" and two alternative 230kV transmission line routes, which are depicted in the attachments to this letter. APS filed an Application for a Certificate of Environmental Compatibility (CEC) presenting the results of the environmental studies for all proposed routes.

The CEC Application was submitted to the Arizona Power Plant and Transmission Line Siting Committee (Siting Committee) on August 14, 2019. The Application is available for public review at the following locations:

- APS siting website (www.aps.com/siting)
- Goodyear Library located at 14455 West Van Buren Street, Suite C-101, Goodyear, AZ
- Sam Garcia Western Avenue Library located at 495 East Western Avenue, Avondale, AZ

PUBLIC HEARING:

A public hearing for the Project is scheduled before the Siting Committee commencing at 1:00 p.m. on September 24, 2019 and is expected to continue through September 27, 2019. **The hearing will be held at the Comfort Suites Goodyear, located at 15575 West Roosevelt Street in Goodyear, Arizona.**

At the hearing, the Siting Committee will hear evidence from APS, APS's environmental consultant, and other parties wishing to participate in the process. Public comment will be taken during a special evening session beginning at 5:30 p.m. on September 24, 2019. Public comment may also be taken at the beginning of each hearing day or at other times during the hearing, at the discretion of the Chairman of the Committee. If the Siting Committee approves APS's Application, the Committee will issue a CEC, which will be submitted to the Arizona Corporation Commission for discussion and approval.

APS welcomes your feedback on this Project. Comments and questions may be submitted through:

- the Project Information phone line: (877) 841-9851
- the Project email address: GoodyearSouthSiting@apsc.com
- the APS siting website: www.aps.com/siting

Sincerely,

Brad Larsen
APS Senior Siting Consultant

Enclosures





Wildcat and Cyclone 230kV Transmission Line Project

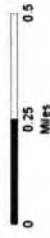
Preferred Route

Project Features

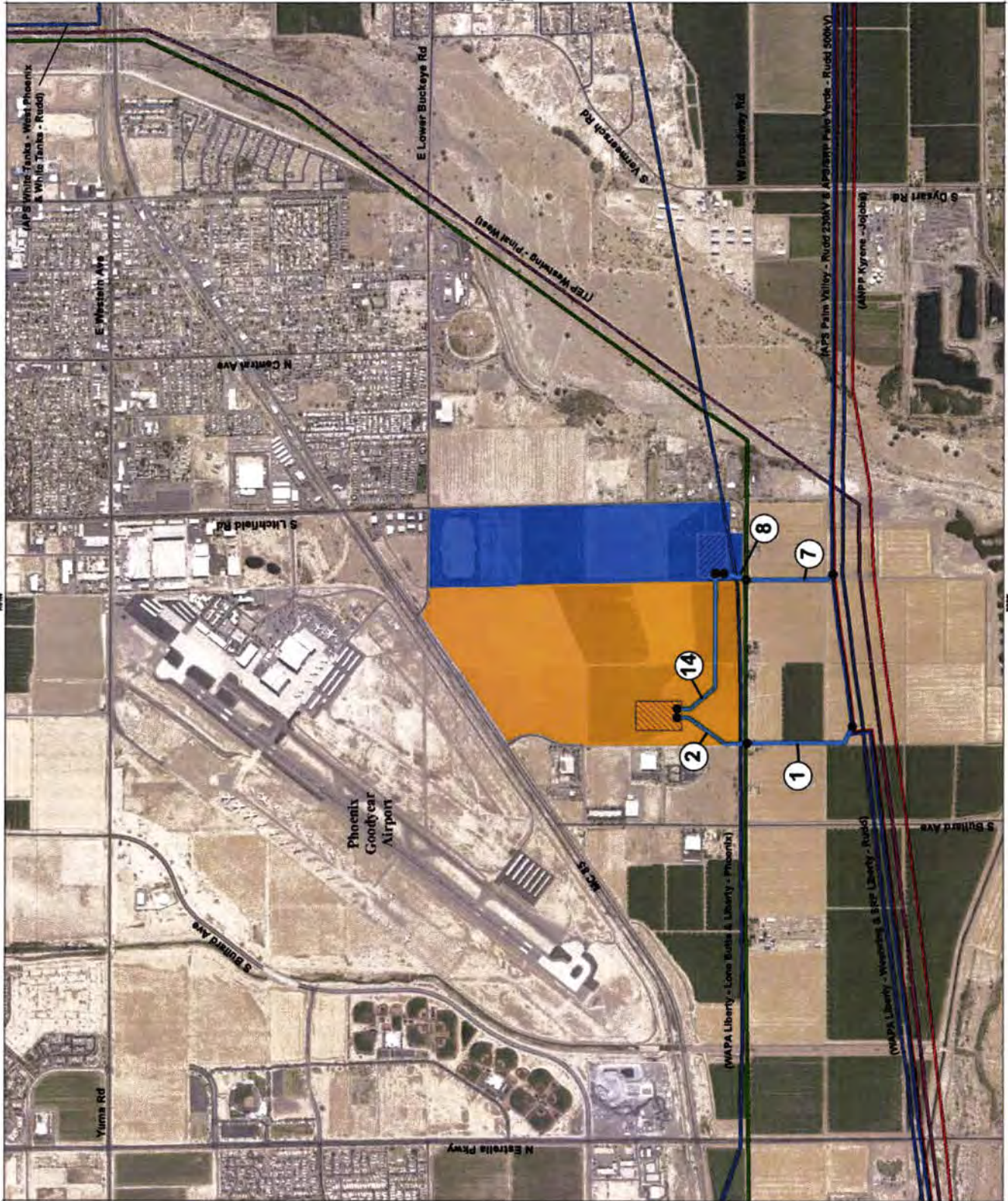
-  230kV Transmission Line Preferred Route
-  Wildcat Site
-  TS15 Substation
-  Cyclone Site
-  TS18 Substation
-  Link Number
-  Link Node

Existing Transmission Facilities

-  69kV Transmission Line
-  230kV Transmission Line
-  345kV Transmission Line
-  500kV Transmission Line



August 2019







Wildcat and Cyclone 230kV Transmission Line Project

Alternative Route #1

Project Features

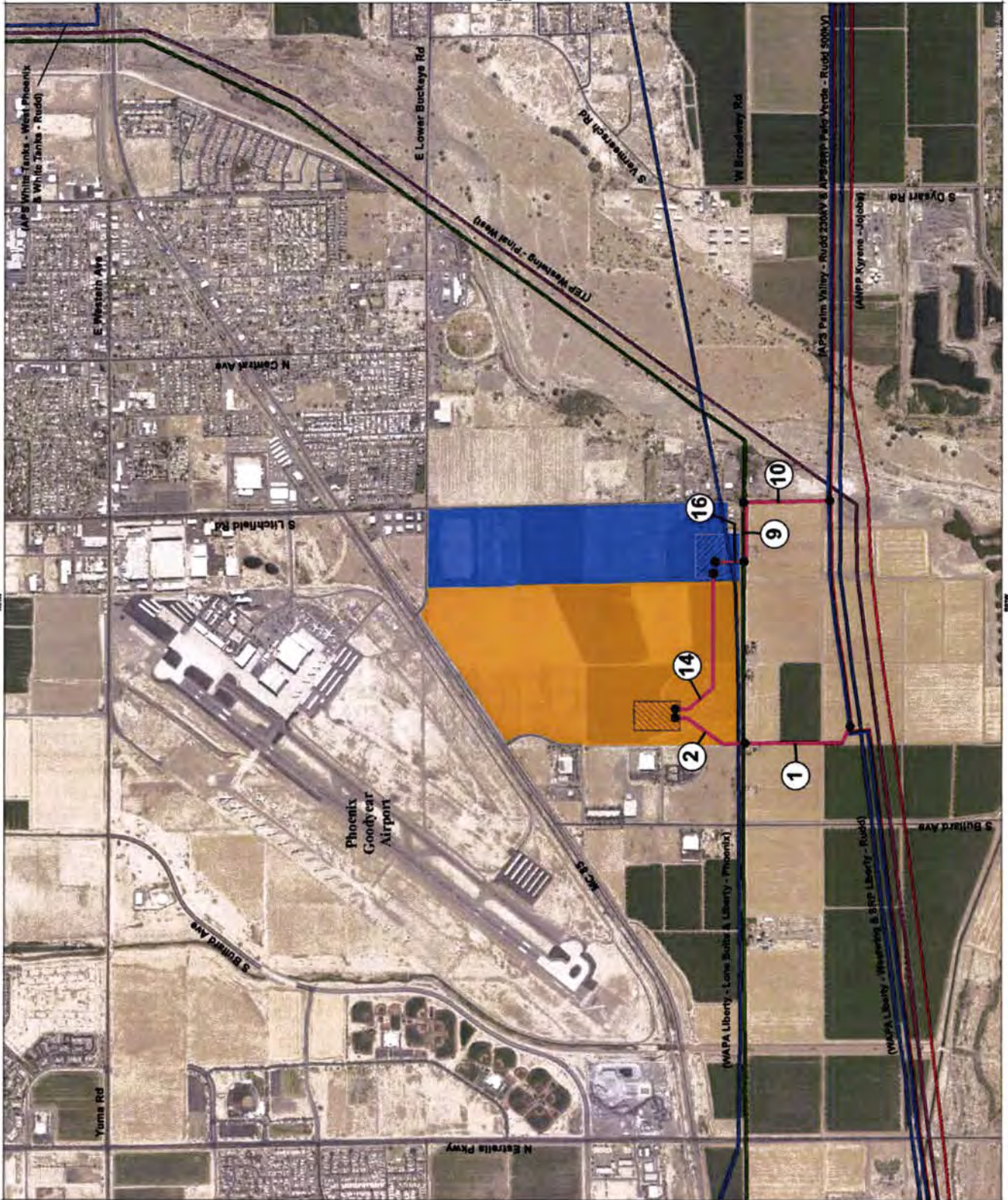
-  230kV Transmission Line Alternative Route #1
-  Wildcat Site
-  TS15 Substation
-  Cyclone Site
-  TS18 Substation
-  Link Number
-  Link Node

Existing Transmission Facilities

-  69kV Transmission Line
-  230kV Transmission Line
-  345kV Transmission Line
-  500kV Transmission Line



August 2019







Wildcat and Cyclone 230kV Transmission Line Project

Alternative Route #2

Project Features

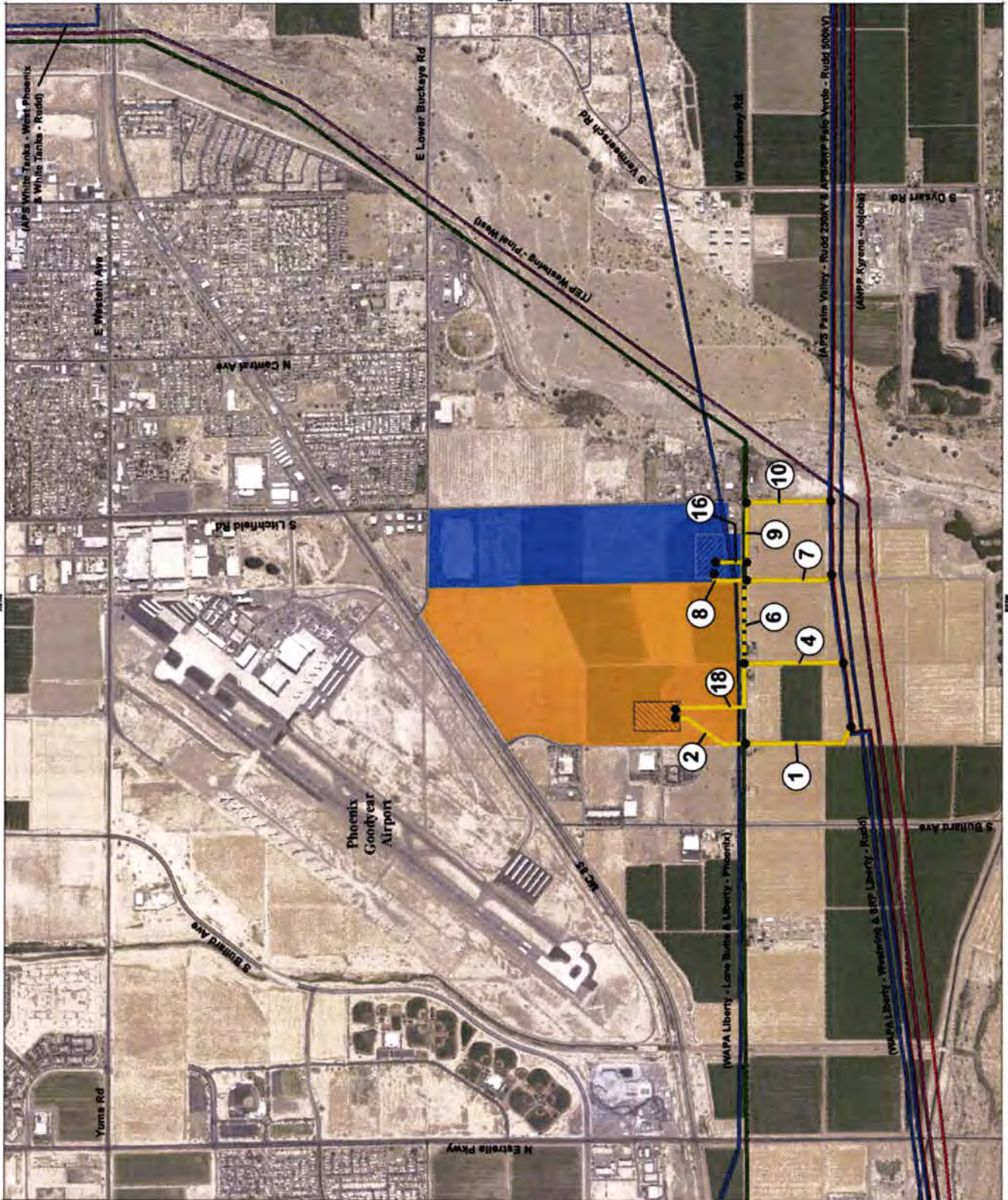
-  230kV Transmission Line Alternative Route #2
-  230kV Transmission Line Alternative Sub-Route
-  Wildcat Site
-  TS15 Substation
-  Cyclone Site
-  TS18 Substation
-  Link Number
-  Link Node

Existing Transmission Facilities

-  69kV Transmission Line
-  230kV Transmission Line
-  345kV Transmission Line
-  500kV Transmission Line



August 2019



Devin Petry

From: Andrew Cavalcant <acavalcant@azgfd.gov>
Sent: Wednesday, August 21, 2019 1:24 PM
To: Devin Petry
Subject: Re: [EXTERNAL] AGFD Review of APS Wildcat and Cyclone Transmission Line project
Attachments: M19-07220944 Wildcat and Cyclone 230kV Transmission Line - AGFD Response.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Mr. Petry,

The Department has received your application packet for the *Certificate of Environmental Compatibility, Wildcat and Cyclone 230kV Transmission Line Project*. I have reviewed the packet, specifically Exhibit C and D, and the department has no further comments or concerns. I have attached our letter submitted on 8/1/19 and these recommendations still stand.

As always we appreciate the early involvement in these projects.

Thanks

On Wed, Aug 21, 2019 at 11:06 AM Andrew Cavalcant <acavalcant@azgfd.gov> wrote:

Good Afternoon,

We received your application packet for the Certificate of Environmental Compatibility, Wildcat and Cyclone 230kV Transmission Line Project. Has any scope of the project changed since the last comment letter we submitted on 8/1? Trying to see if that letter will work for your needs or if you would like us to respond again.

Thanks

On Thu, Aug 1, 2019 at 2:53 PM Devin Petry <dpetry@epgllc.co> wrote:

Thank you for your response, Mr. Cavalcant.

Devin Petry



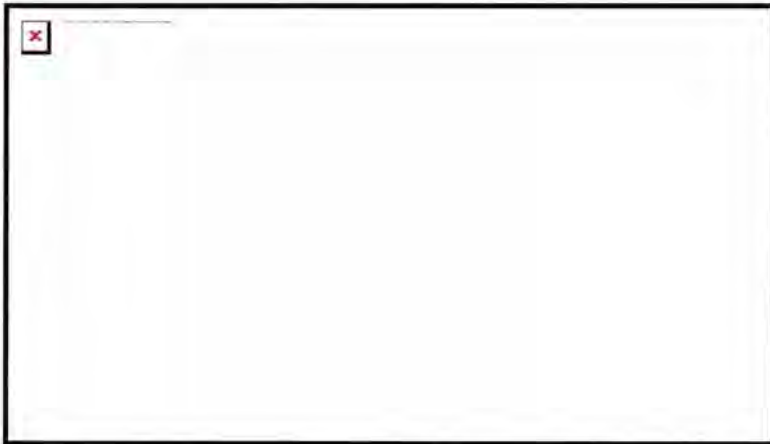
From: Andrew Cavalcant <acavalcant@azgfd.gov>
Sent: Thursday, August 01, 2019 2:48 PM
To: Devin Petry <dpetry@epgllc.co>
Subject: [EXTERNAL] AGFD Review of APS Wildcat and Cyclone Transmission Line project

Devin,

The Department's response to your Project Evaluation Request for the APS Wildcat and Cyclone Transmission Line project is attached.

Please feel free to call or email with any questions.

Thank you,



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August 1, 2019

Devin Patry
Environmental Planning Group
4141 N. 32nd St., Suite 102
Phoenix, AZ 85018

Re: Review of the APS Wildcat and Cyclone 230kV Transmission Line and Substations project

Dear Devin Patry,

The Arizona Game and Fish Department (Department) reviewed your Project Evaluation Request dated July 18, 2019, regarding the construction of two (2) new substation facilities for the installation of multiple 230kV transmission lines in the Goodyear area.

Based on the information provided, the Department offers the following general recommendations:

- As your project is located within agricultural fields, the western burrowing owl (*Athene cunicularia hypugaea*), a special status species that is regulated under the Migratory Bird Treaty Act (MBTA), may be present within your project location. The Department recommends conducting an occupancy survey for western burrowing owl to determine if this species occurs within your project footprint. Guidelines for conducting this survey are found in *Burrowing Owl Project Clearance Guidance for Landowners* which can be accessed on-line through the Department's website. Please note that the survey should be conducted by a surveyor that is certified by the Department. If an active burrowing owl burrow is detected, please contact the Department and the U.S. Fish and Wildlife Service for direction, in accordance with the *Burrowing Owl Project Clearance Guidance for Landowners*.
<https://www.azgfd.com/wildlife/speciesofgreatestconservneed/raptor-management/burrowing-owl-mangement/>
- Minimize the potential introduction or spread of exotic invasive species, including aquatic and terrestrial plants, animals, insects and pathogens. Precautions should be taken to wash and/or decontaminate all equipment utilized in the project activities before entering and leaving the site. To view a list of documented invasive species in or near your project area visit <http://login.imapinvasives.org/azimi/login/?next=/azimi/>. To build a list: login, go to Query and Reports, select a geography value relevant to your project area, and select "View Report" for a list of reported species.
 - Arizona has noxious weed regulations (Arizona Revised Statutes, Rules R3-4-244 and R3-4-245); please see the Arizona Department of Agriculture website for prohibited and restricted noxious weeds.
<https://www.invasivespeciesinfo.gov/unitedstates/az.shtml>

azgfd.gov | 602.942.3000

5000 W. CAREFREE HIGHWAY, PHOENIX AZ 85086

GOVERNOR: DOUGLAS A. DUCEY COMMISSIONERS: CHAIRMAN, ERIC S. SPARKS, TUCSON | KURT R. DAVIS, PHOENIX
LELAND S. "BILL" BRAKE, ELGIN | JAMES E. GOUGHNOUR, PAYSON | JAMES S. ZIELER, ST. JOHNS DIRECTOR: TY E. GRAY DEPUTY DIRECTOR: TOM P. FINLEY

Devin Petry

Subject: FW: FAA requirements & Microsoft Data Center Layout
Attachments: Loc 3.pdf; Loc 2.pdf; Loc 1.pdf

From: Holmquist, Paul (FAA) [<mailto:Paul.Holmquist@faa.gov>]
Sent: Monday, July 22, 2019 8:32 AM
To: Eich, Stephen K <Stephen.Eich@aps.com>; Schlieff, David M <David.Schlieff@aps.com>
Subject: RE: FAA requirements & Microsoft Data Center Layout

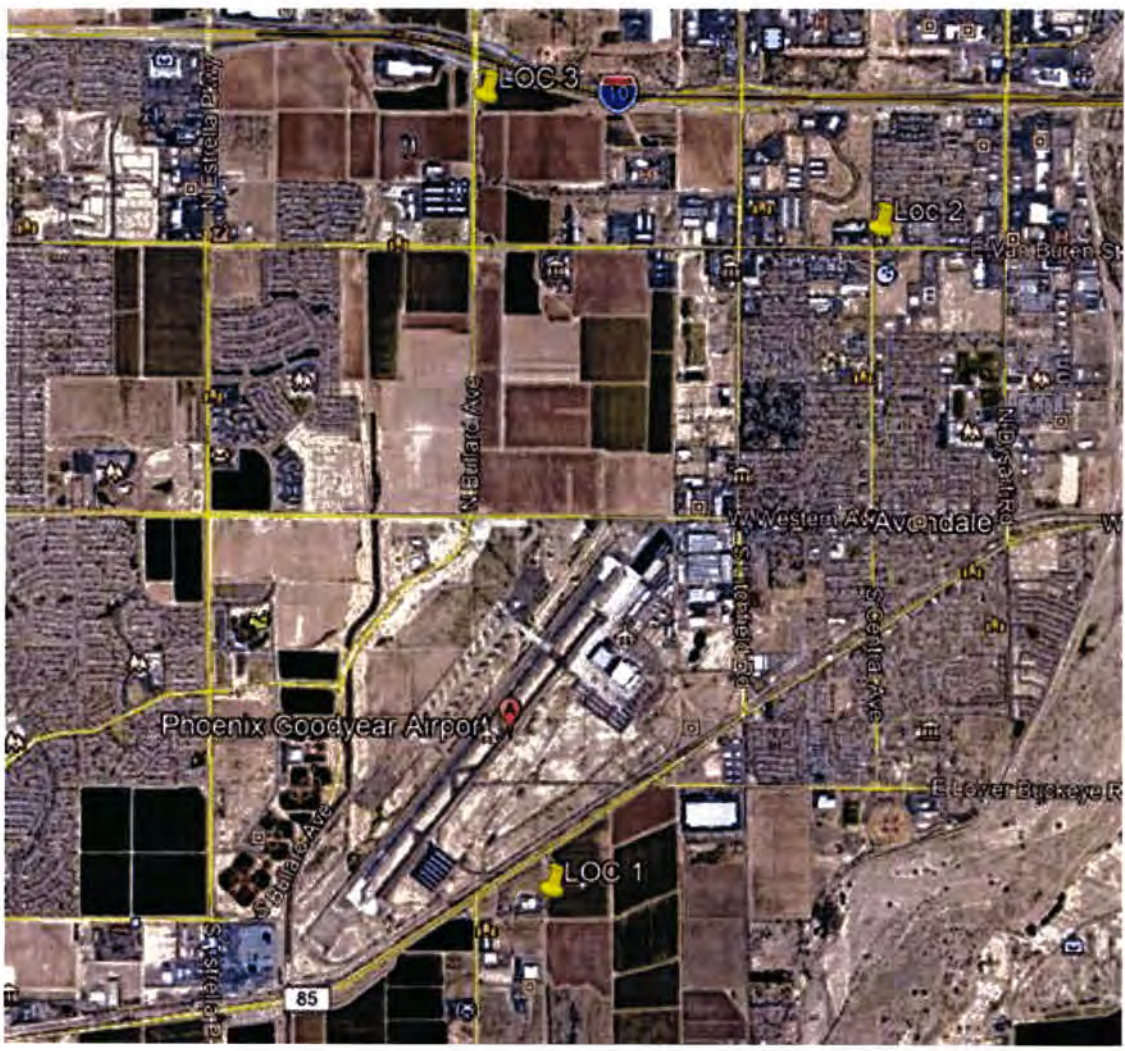
*****CAUTION*****

*****CAUTION*****

*****CAUTION*****

This e-mail is from an **EXTERNAL** address (Paul.Holmquist@faa.gov). **DO NOT** click on links or open attachments unless you trust the sender is safe. If you suspect this message to be phishing, please report it to the APS Cyber Defense Center at ACDC@apsc.com.

David and Stephen, attached are the Part 77 reports for the 3 locations. 1 and 2 were clear, Loc 3 does bust the horizontal surface by 7 feet but could go through public notice and be approved. I can't check IFR effects but I did look at other studies in the vicinity and found that the chances are low there would be any. It's not guaranteed however without running it through our Flight Procedures team.



Thanks, Paul

206-231-2990

<https://oeaaa.faa.gov>

From: Schlieff, David M
Sent: Thursday, July 18, 2019 7:03 AM
To: Paul.Holmquist@faa.gov
Cc: Eich, Stephen K <Stephen.Eich@aps.com>
Subject: FW: FAA requirements & Microsoft Data Center Layout

Good morning Paul, here are 3 pole locations that we are in the siting/ planning stage. Per our conversation a few days ago, will you please take a quick look at these and let us know if these locations can be approved and ultimately receive FAA permits. We will obviously submit through the normal process once design is complete for all of the proposed poles in the area.

Location 1) WAPA crossing (north side of Broadway Road, approximately 1,400 feet east of Bullard Road) in Goodyear, AZ:

Latitude: 33°24'23.85"N
Longitude: 112°22'14.13"W
Elevation: 930'
Pole Height: 180'

(TOTAL ELEVATION: 930' + 180' = 1,110')

Location 2) W Van Buren Road & N Central Ave, Goodyear, AZ:

Latitude: 33°26'59.84"N
Longitude: 112°20'58.17"W
Elevation: 982'
Pole Height: 130'

(TOTAL ELEVATION: 982' + 130' = 1,112')

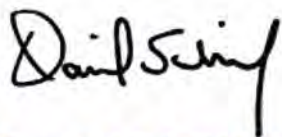
Location 3) ~~N Bullard Ave & N Central Ave~~ **N Bullard Ave & Roosevelt Street**, Goodyear, AZ:

Latitude: 33°27'25.45"N
Longitude: 112°22'29.99"W
Elevation: 996'
Pole Height: 130'

(TOTAL ELEVATION: 982' + 130' = 1,126')

Based on the Phoenix Goodyear Airport's plans, we would not be penetrating the airspace (anything within the total elevation of 1,119')

Thank you for your help.
Dave



Dave Schlieff RLS SR/WA
Sr. Land Agent



Arizona Public Service
Land Services Department
Office: (602) 371-7295
Cell: (602) 908-9554
Fax: (602) 371-5623

100DAYS
of Helping

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**Federal Aviation Administration
Civilian Hypothetical 14 CFR Part 77 Report
For Structure: a
Mon Jul 22 11:06:21 EDT 2019**

Obstruction Evaluation

| | | | |
|---|-------------------|--------------------|------|
| Latitude: | 33-24-23.85N | SE: | 930 |
| Longitude: | 112-22-14.30W | AGL: | 180 |
| Traverse Way: | Not a traverseway | Additional Height: | 0 |
| Case Information & Part 77 results use NAD 83 datum | | AMSL: | 1110 |

Airports with Part 77 Category Issues

No Airports with Part 77 Category Issues Found

Notice Criteria

| | |
|-------------------------------|---|
| 77.9 Instrument Approach Area | Does not exceed |
| 77.9 Facility Screening | Further Study Required |
| 77.9(a) | Does not exceed 200 ft AGL |
| 77.9(b) | *GYR[EXISTING][NASR] - RWY 03/21[EXISTING][NASR]: ---> Exceeds by 119 ft. |
| 77.9(c) | Not a traverseway |
| 77.9(d) | Not on an airport |

Obstruction Standards

| | |
|-------------|---|
| 77.17(a)(1) | DNE 499 ft AGL |
| 77.17(a)(2) | Does not exceed |
| 77.17(a)(3) | Surface not evaluated. Refer to FP Division |
| 77.17(a)(4) | Surface not evaluated. Refer to FP Division |
| 77.19(a) | Does not apply |
| 77.19(b) | DNE Conical surface |
| 77.19(c) | Outside Primary surface |
| 77.19(d) | DNE Approach surface |
| 77.19(e) | DNE Transitional surface |
| 77.23(a) | DNE Heliport primary surface |
| 77.23(b) | DNE Heliport approach surface |

Note: Military surfaces have not been evaluated

Closest Runway Data

Runway End 03

| | | |
|--------------------------|-------------------------|----------------------------|
| Apt: GYR[EXISTING][NASR] | Runway: 03/21 | Runway Type: C(NP1) / B(V) |
| Latitude: 33-24-50.72N | Runway End Type: C(NP1) | Azimuth: 123.76° |
| Longitude: 112-23-02.23W | Side: R | CD: -346 |
| Elevation: 943 | Heading: 38.09° | PD: 4873 |
| Length: 8500 | Data Source: NASR | DD: 4887 |
| Width: 150 | Status: EXISTING | |

Public Use Airports & Surfaces

| | | | |
|-------------|--|--|--|
| *GYR | Name: PHOENIX GOODYEA Data Source: NASR Status: EXISTING | Latitude: 33-25-23.80N Longitude: 112-22-31.30W Elevation: 969 | Azimuth: 166.62° APT-STR: 1.03 NM or 6229 ft. |
|-------------|--|--|--|

| | | | |
|--------------|-----------------------|--|--|
| U_GYR | Name: PHOENIX GOODYEA | Latitude: 33-25-23.81N Longitude: 112-22-31.30W Elevation: 971 | Azimuth: 166.62° APT-STR: 1.03 NM or 6230 ft. |
|--------------|-----------------------|--|--|

Runway 03/21

| | | |
|-------------------|--------------|------------------------------|
| Data Source: NASR | Length: 8500 | Type: C(NP1) / B(V) |
| Status: EXISTING | Width: 150 | RWY-STR: 0.79 NM or 4796 ft. |

Runway End 03

| | | |
|--------------------------|------------------|----------|
| Latitude: 33-24-50.72N | Type: C(NP1) | CD: -346 |
| Longitude: 112-23-02.23W | Heading: 38.09° | DD: 4887 |
| Elevation: 943 | Azimuth: 123.76° | PD: 4873 |
| Side: R | | |

Runway End 21

| | | |
|--------------------------|------------------|-----------|
| Latitude: 33-25-56.90N | Type: B(V) | CD: -8152 |
| Longitude: 112-22-00.36W | Heading: 218.10° | DD: 9479 |
| Elevation: 970 | Azimuth: 187.16° | PD: 4873 |
| Side: L | | |

Pad: H1

| | | | |
|-------------------|--------------------------|-------------------|------------------------------|
| Data Source: NASR | Latitude: 33-25-45.17N | Length: 64 | Azimuth: 186.82° |
| Status: EXISTING | Longitude: 112-22-02.70W | Width: 64 | DD: 8278 |
| | Elevation: 968 | Radius: 45.25 ft. | PAD-STR: 1.35 NM or 8232 ft. |

| | | | |
|-------------|--|---|---|
| *GEU | Name: GLENDALE MUNI Data Source: NASR Status: EXISTING | Latitude: 33-31-36.90N Longitude: 112-17-42.50W Elevation: 1071 | Azimuth: 207.77° APT-STR: 8.14 NM or 49460 ft. |
|-------------|--|---|---|

| | | | |
|--------------|---------------------|---|---|
| U_GEU | Name: GLENDALE MUNI | Latitude: 33-31-36.50N Longitude: 112-17-42.66W Elevation: 1071 | Azimuth: 207.77° APT-STR: 8.13 NM or 49418 ft. |
|--------------|---------------------|---|---|

Runway 01/19

| | | |
|-------------------|--------------|-------------------------------|
| Data Source: NASR | Length: 7150 | Type: C(NP1) / C(NP1) |
| Status: EXISTING | Width: 100 | RWY-STR: 7.56 NM or 45955 ft. |

Runway End 01

| | | |
|--------------------------|------------------|-----------|
| Latitude: 33-31-05.02N | Type: C(NP1) | CD: 45845 |
| Longitude: 112-18-00.78W | Heading: 25.70° | DD: 45887 |
| Elevation: 1042 | Azimuth: 207.93° | PD: 1782 |
| Side: L | | |

Runway End 19

| | | |
|------------------------|--------------|------------|
| Latitude: 33-32-08.74N | Type: C(NP1) | CD: -52995 |
|------------------------|--------------|------------|

Longitude: 112-17-24.14W
Elevation: 1072
Side: R

Heading: 205.71°
Azimuth: 207.63°

DD: 53032
PD: 1782

Runway 01/19

Data Source: OEAAA Length: 6935 Type: C(NP1) / C(NP1)
Status: PROPOSED Width: 100 RWY-STR: 7.57 NM or 45990 ft.
This is a proposed runway

Runway End 01

Latitude: 33-31-05.32N Type: C(NP1) CD: 45880
Longitude: 112-18-00.57W Heading: 25.69° DD: 45922
Elevation: 1042 Azimuth: 207.93° PD: 1795
Side: L

Runway End 19

Latitude: 33-32-07.14N Type: C(NP1) CD: -52814
Longitude: 112-17-25.06W Heading: 205.70° DD: 52852
Elevation: 1072 Azimuth: 207.64° PD: 1795
Side: R

Alert: Public Airports Within 5 Nautical Miles

| Ident | Name | Distance | Latitude | Longitude |
|-------|------------------|----------|--------------|---------------|
| *GYR | PHOENIX GOODYEAR | 1.03 | 33-25-23.80N | 112-22-31.30W |

Public Use Heliports & Surfaces

No Public Use Heliports Found

Alert: Heliports Within 5 Nautical Miles

No Public Heliports Alerts were found

Private Use Airports (in NAD 83 Datum)

| Ident | Name | Distance | Latitude | Longitude |
|-------|---------------------------------|----------|--------------|---------------|
| AZ79 | AIRSCREW PERFORMANCE FLIGHTPARK | 10.70 | 33-31-48.14N | 112-12-59.55W |

Private Use Heliports (in NAD 83 Datum)

| Ident | Name | Distance | Latitude | Longitude |
|-------|--|----------|--------------|---------------|
| 76AZ | WEST VALLEY MEDICAL CENTER | 3.40 | 33-27-40.72N | 112-21-09.94W |
| 008W | PHOENIX INT | 3.49 | 33-22-36.00N | 112-18-40.00W |
| 4402 | BANNER ESTRELLA HELIPORT | 7.17 | 33-28-44.40N | 112-15-24.50W |
| BE1 | BANNER ESTRELLA MEDICA CENTER | 7.18 | 33-28-44.50N | 112-15-24.40W |
| 1AZ7 | S R P TOLLESON CENTER | 7.53 | 33-26-59.15N | 112-13-47.55W |
| AZ29 | WESTRIDGE MALL | 8.45 | 33-28-32.15N | 112-13-25.55W |
| 1AZ1 | BOULAIS | 8.68 | 33-30-54.14N | 112-15-21.56W |
| 3887 | ST JOSEPH WESTGATE MEDICAL CTR. HELISTOP | 9.39 | 33-32-28.81N | 112-16-30.05W |
| 1736 | EMERGENCY DEPARTMENT | 9.52 | 33-26-32.79N | 112-33-19.46W |
| AZ07 | PHOENIX AREA | 11.35 | 33-26-34.16N | 112-08-55.54W |

Legend

Distances:

CD = Along centerline from threshold

PD = Perpendicular to the centerline

DD = Direct from threshold

* Standard or Special Instrument Approach Procedures

Devin Petry

From: David Jacobs <djacobs@azstateparks.gov>
Sent: Tuesday, August 27, 2019 3:30 PM
To: Devin Petry
Subject: [EXTERNAL] APS Wildcat and Cyclone 230 kV Transmission Line project CEC
Attachments: 20190827145640531.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Devin-

Thank you for sending over a copy of the application for a CEC for the proposed APS Wildcat and Cyclone 230 kV Transmission Line project; our office reviewed the materials and concur with the assessment of the impacts to historic properties. See attachment for scanned copy of the cover letter for the project materials.

David Jacobs, Arizona State Historic Preservation Office



August 15, 2019

Kathryn Leonard
State Historic Preservation Officer
Arizona State Historic Preservation Office
1100 W. Washington Street
Phoenix, AZ 85007

RECEIVED
AUG 16 2019
ARIZONA STATE HISTORIC
PRESERVATION OFFICE

Subject: Arizona Public Service (APS) Application for a Certificate of Environmental
Compatibility for the Wildcat and Cyclone 230kV Transmission Line Project

Dear Ms. Leonard:

Enclosed for your review you will find a copy of the Application for a Certificate of Environmental
Compatibility (CEC) for the proposed APS Wildcat and Cyclone 230kV Transmission Line Project,
subject to the approval of the Arizona Power Plant and Transmission Line Siting Committee and
Arizona Corporation Commission.

Should you have any questions or comments regarding the CEC document, we respectfully
request that you provide them by August 30, 2019. Please don't hesitate to contact me by
telephone at 602-956-4370, or via email at dpetry@epgllc.co.

Sincerely,

Devin Petry
Environmental Planner

Enclosure

CONCUR

27 AUG 19
Arizona State Historic Preservation Office

Devin Petry

From: Noel Carter <ncarter@bwccd.com>
Sent: Monday, August 26, 2019 2:34 PM
To: Devin Petry
Subject: [EXTERNAL] APS transmission line route alternatives

Follow Up Flag: Follow up
Flag Status: Flagged

Mr. Petry,

I am writing to you on behalf of Pioneer 2005 LLC in reference to your letter dated July 18, 2019. Included in your letter was a preferred route and two alternative routes for the Wildcat and Cyclone transmission line projects. Pioneer 2005 LLC will support the preferred route and oppose the two alternates and strongly encourage the Arizona Corporation Commission to grant APS the preferred route. Pioneer 2005 LLC will not be willing to give easement for any other routes and feels that the preferred route has minimal impact on Pioneers property and neighboring properties.

Please contact me if you need any further support.

Noel Carter | General Manager
Buckeye Water Conservation & Drainage District
Pioneer 2005 LLC
205 Roosevelt | Buckeye, Arizona 85326
623-386-2196 | ncarter@bwccd.com

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Stream Data Centers
2001 Ross Avenue,
Suite 400
Dallas, TX 75201
streamdatacenters.com

COMMUNITY IMPACT BRIEF
Stream Data Centers - Phoenix I
2950 S. Litchfield Road
Goodyear, Arizona

September 10, 2019

Situation

To support the many opportunities of a growing cloud center, Stream Data Centers has acquired a 418,000-square-foot facility on 157 acres of land in Goodyear, Arizona, where it will establish a data center campus for hyperscale and enterprise customers across the Greater Phoenix region.

Initially, Stream will redevelop the existing facility, which at full build-out will contain approximately 50 MW of critical load and will be fully operational for customers in the first quarter of 2020.

Stream will dedicate land for an onsite substation to be constructed by Arizona Public Service Electric Company (APS) with ultimate power capacity of 350 MW.

This acquisition marks the company's entrance into the Phoenix market and will enable it to scale with the needs of the area's growing number of cloud providers and enterprise users. At full build the entire campus can support approximately 2 million square feet. Stream will dedicate land for an onsite substation to be constructed by Arizona Public Service Electric Company (APS) with ultimate power capacity of 350 MW.

"The Phoenix market has quickly emerged as one of the top destinations in the Western US for enterprise and cloud companies," notes Robert Kennedy, co-managing partner of Stream Data Centers. "A pro-business environment with a great sales tax incentive program, low risk of natural disaster and low latency to major markets on the West Coast, Midwest and Texas have fueled tremendous growth for this market. We look forward to establishing a major campus and long-term relationship with Goodyear, APS and the Greater Phoenix region." "Stream Data Centers' confidence and investment into the Goodyear market



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will provide high-end jobs and innovative cloud-based technology solutions for years to come," said Mayor Georgia Lord. "We are very excited to welcome another best-in-class company to our rapidly expanding cluster of high-tech businesses. We are thankful for their commitment to Goodyear and foresee a bright future ahead."

Employment (construction and permanent skilled jobs)

- Hundreds of construction and operations personnel will be needed to complete the campus development. Skilled labor increases as we grow campus size.
- The result of a large cloud provider purchasing a major site in Goodyear has paved the way for future data center users and operators to benefit from similar APS advantages.
- Extensions of existing infrastructure - water, sewer, and fiber - are in process due to large data center development plans in Goodyear.
- Employment opportunities will continue to be attractive throughout the lifecycle of our campus development. We anticipate building an ecosystem of growth in our development and corollary industries, due to Goodyear's availability of large-scale developable land sites and pro-business, development-friendly local government. (Goodyear is ranked by the U.S. Census Bureau as one of the fastest growing cities in the U.S., and the economic impact of Stream's, and U.S. 24/7 Wall Street ranked Goodyear as one of America's Top 10 Best Cities to Live.)

Economic impact (taxes, ancillary job creation, etc.)

- Strong employment growth leads to more opportunities. All employees associated with the construction and operations of the data center will contribute to net/new job growth, and the expanding project will enhance the need for permanent skilled labor, facilities management and customer support in the community over the long haul.
- Throughout the project, and in subsequent phases of the larger campus development, positive economic results will include tax revenue, and broader community infrastructure expansions to support the growing community business climate.



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- The greater Phoenix region has a base of high-quality enterprise data center users which have organically grown in the Phoenix market, giving way to more economic promise in the Goodyear metro area.

Attracting Complimentary Businesses

- Our development strengthens the holistic infrastructure of the immediate region, attracting other tech and innovation companies.
- With the site is in close proximity to the Goodyear Airport, as well as other popular Phoenix-area airports, destinations and amenities, the site is anticipated to support high-end Fortune 1000 clientele and successfully attract services staff and visitors.
- Excellent fiber connectivity with optimum network latency to other markets, with new fiber routes already attracting large network carriers to the region.
- Stream’s development follows right on the heels of a similar project brought by one of the world’s top cloud providers (Microsoft,) which naturally helped pave the way for Stream and other innovative tech companies who will undoubtedly begin moving into the area to take advantage of burgeoning infrastructure.
- Stream and APS are leading with utility provisioning to the massive campus development as a whole, as connectivity suppliers are also coming to the area to support Stream, which will surely lead to forthcoming expansions in the area. Stream has agreements with Zayo and Cox Communications for connecting The City of Goodyear back to the carrier hotel in Phoenix – which is good news for connected enterprise in the region.
- In a short timeframe, Vantage, IPI, Compass Data Centers have followed suit. More facilities and support services will surely expand to benefit the whole business community in and around Goodyear, connecting the entire Greater Phoenix area.



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Conservative Water Usage

- The cooling system proposed for the Stream Data Center is a closed loop chilled water system that utilizes air-cooled chillers and will not use any make-up water. The air-cooled chillers' heat rejection system uses refrigerant based technology by means of a condenser coil and fan system. Outside of the closed loop system, the design will not use any additional water.
- All other building cooling systems (DOAS, VRF) do not utilize any water for heat rejection. They are also mechanical refrigerant-based cooling systems.

About Stream Data Centers

Stream Data Centers has been providing premium data center solutions to Fortune 500 companies since 1999. Product offerings include Hyperscale Data Centers, Private Data Centers, Ready-to-Fit™ Powered Shells, Retail Colocation and Build-to-Suit Data Centers – all with immediate connection to network carriers and public cloud providers. Above all, Stream is dedicated to improving the data center experience through exceptional people and service.

Stream supports its facility management services by leveraging the combined skill sets of Stream's technical real estate and data center professionals to deliver end-to-end solutions for all mission-critical needs.

Stream Data Centers is a subsidiary of Stream Realty Partners, a national commercial real estate firm with full-service offerings in leasing, property management, development, construction management, and investment sales services across the industry.