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ARIZONA CORP COMMISSION  
DOCKET CONTROL

**BEFORE THE ARIZONA CORPORATION COMMISSION**

9 COMMISSIONERS  
 10 BOB STUMP, Chairman  
 11 GARY PIERCE  
 12 BRENDA BURNS  
 13 ROBERT L. BURNS  
 14 SUSAN BITTER SMITH

Arizona Corporation Commission

**DOCKETED**

NOV 3 2014

**ORIGINAL**

DOCKETED BY 

14 IN THE MATTER OF THE APPLICATION  
 15 OF ARIZONA PUBLIC SERVICE  
 16 COMPANY, PURSUANT TO ARIZONA  
 17 REVISED STATUTE § 40-252, FOR AN  
 18 AMENDMENT TO ARIZONA  
 19 CORPORATION COMMISSION  
 20 DECISION NO. 67828

Docket No. L-00000D-04-0127-00000

**REQUEST FOR EXTENSION OF CEC  
 TERM RE CEC 127  
 -AND-  
 NOTICE OF TRILBY WASH / TS1  
 SUBSTATION LOCATED ON 15-ACRE  
 PARCEL**

**I. BACKGROUND**

21 In Decision No. 67828, the Arizona Corporation Commission (“Commission”) granted  
 22 Arizona Public Service Company (“APS” or “Company”) a Certificate of Compatibility  
 23 (“CEC”) authorizing APS to construct approximately 25 miles of a double-circuit 230kV  
 24 transmission line with a 69kV underbuild, one 230kV substation, and one 500kV/230kV  
 25 substation (the “Project”). For the Commission’s convenience, Decision No. 67828 is  
 26 attached as Exhibit A.

27 The Project is located within the West Valley–North area, which is bounded  
 28 approximately by Jomax Road to the north, Northern Avenue to the south, Reems Road to the

1 east, and the Hassayampa River to the west. The 230kV transmission line will connect the  
2 two substations noted above with the previously sited TS2 substation.<sup>1</sup> When constructed,  
3 this transmission line will provide the 230kV backbone required for the development of a  
4 local 69kV system necessary to support the growth and associated infrastructure in the West  
5 Valley. Commission Decision No. 67828 and the CEC will be referred to collectively as  
6 “CEC 127.”

7 APS requests that the Commission extend the time period to construct the facilities  
8 authorized by CEC 127 from May 5, 2015 to May 5, 2020 for the first circuit of the 230kV  
9 transmission line, and from May 5, 2025 to May 5, 2030 for the second circuit. Condition 3  
10 in CEC 127 authorized a ten-year term for constructing the first circuit, unless construction  
11 was completed to the point that the project was capable of operating by that time, and a  
12 twenty-year term for constructing the second circuit of the line. Additionally, APS gives the  
13 Commission notice that Trilby Wash Substation is built on a 15-acre parcel of land, rather  
14 than the 10 acres originally noted in the CEC.

15 **II. EXTENSION OF CEC TERM ALLOWS APS TO BUILD FACILITIES WHEN**  
16 **NEEDED TO SUPPORT LOAD GROWTH.**

17 APS’s existing electric system is sufficient to meet current customer load; however,  
18 the electrical facilities approved in CEC 127 will be necessary to accommodate load growth  
19 in the West Valley, as well as to enhance the reliability of the existing electrical system in the  
20 future. Although the development and associated electrical load growth in the area have not  
21 progressed as expected due to the economic decline experienced in recent years, APS  
22 anticipates that it will need the first circuit of this Project within a few years. It will need the  
23 second circuit and the related facilities as the economy improves and growth resumes in the  
24 area. (*See* Affidavit of D. Brad Larsen, attached as Exhibit B.)

25 APS respectfully requests that the time period to construct the facilities authorized by  
26 CEC 127 be extended for an additional five years to May 5, 2020 for the first circuit of the

27 \_\_\_\_\_  
28 <sup>1</sup> TS2 substation certificated in Decision No. 66646, Docket No. L-00000D-03-0122 (Case No. 122),  
December 22, 2003.

1 230kV transmission line, and for an additional five years to May 5, 2030 for the second  
2 circuit. Consistent with the above, APS requests that the following language be substituted  
3 for the language of Condition No. 3 in CEC 127:

4 This authorization to construct the Project shall expire on May 5, 2020 unless  
5 construction is completed to the point that the Project is capable of operating by  
6 that time; provided, however, that the authorization to construct the second  
7 circuit of the Project and related facilities shall expire on May 5, 2030; and  
8 further provided, however, that prior to either such expiration date the  
9 Applicant or its assignees may request that the Commission extend this time  
10 limitation.

11 Condition 16 of CEC 127 requires APS to “use reasonable means to directly notify all  
12 landowners and residents within a one-half mile radius of the Project facilities ... of the time  
13 and place of the proceeding in which the Commission shall consider” a request for the  
14 extension of the CEC term. *See* Attachment 1 to Exhibit B for a sample notice APS intends  
15 to use to notify landowners and residents of the Commission proceeding regarding this  
16 request for extension.

17 **III. 230kV TRILBY WASH SUBSTATION LOCATED ON A 15-ACRE PARCEL  
18 TO ACCOMMODATE CHANGE IN SUBSTATION UTILITY DESIGN.**

19 APS notifies the Commission that the Company has built the Trilby Wash Substation  
20 on 15 acres of land, rather than the ten (10) acres originally noted in the CEC. *See* map  
21 depicting substation property attached as Exhibit C. CEC 127 described the Trilby Wash  
22 Substation as being built on “up to ten acres of land located in the SE ¼ of the NW ¼ of  
23 Section 20, Township 4 North, Range 2 West, approximately at the half-section line north of  
24 Beardsley Road” (near 195<sup>th</sup> Avenue).

25 In May 2007, the Arizona State Land Department (“ASLD”) granted APS a right-of-  
26 way (“ROW”) on a 15-acre site for a 230/69kV electrical substation and service road for  
27 ingress and egress.<sup>2</sup> (*See* Exhibit B at ¶ 3.) Earlier this year, APS constructed a perimeter  
28 wall surrounding approximately 13 acres of its 15-acre ROW. The additional two acres

<sup>2</sup> During the evidentiary hearing before the Arizona Power Plant and Transmission Line Siting  
Committee, APS’s witness testified that the Trilby Wash / TS1 substation would require  
approximately 10 to 12 acres. *See* Tr. Vol. 1 at p. 58.

1 outside the perimeter wall of the substation will be used for landscaping, drainage area, and a  
2 roadway. (See Exhibit B at ¶ 5.)

3 APS does not view the change as substantial, nevertheless, in an abundance of caution,  
4 APS notifies the Commission of this change. The 15-acre substation site is within the  
5 transmission line corridor approved in CEC 127, and the change does not materially increase  
6 the environmental impact. (See Exhibit B at ¶ 6 and ¶ 7.) In fact, the environmental analysis  
7 conducted for the CEC application included the 15-acre area. (See Exhibit B at ¶ 7, and CEC  
8 Application, B-2, Figure 1-1, attached as Exhibit D.) There is minimal landowner impact as  
9 the substation site is bordered on the East by a landfill, on the West and North by vacant Trust  
10 land managed by the ASLD, and on the South by the existing 500kV transmission line  
11 corridor. When fully constructed, the electrical facilities will be confined to approximately  
12 eight (8) acres, well within the ten (10) acres originally contemplated. (See Exhibit B at ¶ 5.)

13 At the time the Project was certificated in 2005, APS's evaluation of critical  
14 infrastructure layout in high voltage substations was underway.<sup>3</sup> Subsequent to that  
15 evaluation, APS modified its design practices for high voltage substations allowing  
16 appropriate clearances between critical equipment in substations (generally transformers and  
17 control houses) to prevent potential fire spread. (See Exhibit B at ¶ 4.) The 15-acre site  
18 provided the space necessary to allow the appropriate clearances between critical equipment  
19 and to meet enhanced security measures for this 230kV substation. It also provided space for  
20 the required access roadways, water retention basins, and security wall. (See Exhibit B at ¶  
21 5.)

22 If the Commission deems the change to require Commission approval, then APS  
23 respectfully requests that this filing be treated as an application under A.R.S. § 40-252 to  
24 amend CEC 127 to authorize the use of up to 15 acres of land for the Trilby Wash Substation.  
25 APS suggests that the following language be substituted for the language on p. 4, lines 6-9 of  
26 CEC 127:

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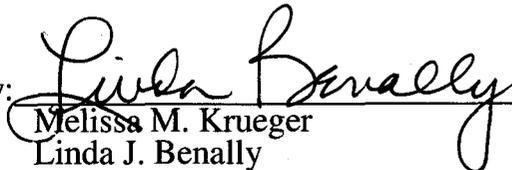
27  
28 <sup>3</sup> In part, the 500kV Westwing Substation fire that occurred on July 4, 2004 triggered the assessment.

1 The Trilby Wash Substation / TS1 substation would include up to 15 acres of  
2 land located in the SE ¼ of the NW ¼ of Section 20, Township 4 North, Range  
2 West, approximately at the half-section line north of Beardsley Road.

3 **IV. CONCLUSION**

4 For the reasons set forth above, APS respectfully requests that the Commission grant  
5 APS's request to extend the term of CEC 127 and modify the language of Condition No. 3. If  
6 the Commission deems that the Company's use of 15 acres of land for the Trilby Wash  
7 230kV Substation is a substantial change, APS asks the Commission to amend Decision No.  
8 67828 under A.R.S. § 40-252 accordingly.

9 **RESPECTFULLY SUBMITTED** this 3rd day of November 2014.

10  
11 By:   
12 Melissa M. Krueger  
13 Linda J. Benally

14 Attorneys for Arizona Public Service Company

15  
16 **ORIGINAL** and thirteen (13) copies  
17 of the foregoing filed this 3rd day of  
18 November 2014, with:

19 The Arizona Corporation Commission  
20 Hearing Division – Docket Control  
21 1200 West Washington Street  
22 Phoenix, Arizona 85007

23 **COPY** of the foregoing hand-delivered  
24 this 3rd day of November 2014, to:

25 Janice J. Alward, Esq.  
26 Chief Counsel, Legal Division  
27 Arizona Corporation Commission  
28 1200 West Washington Street  
Phoenix, Arizona 85007

...

1 Steve Olea, Director  
2 Utilities Division  
3 Arizona Corporation Commission  
4 1200 West Washington Street  
5 Phoenix, Arizona 85007

6 **COPY** of the foregoing mailed this  
7 3rd day of November 2014, to:

8 Attorney General's Designee  
9 Arizona Power Plant and Transmission Line  
10 Siting Committee  
11 Office of the Attorney General  
12 PAD/CPA  
13 1275 West Washington Street  
14 Phoenix, Arizona 85007

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*Alan Byer*  
\_\_\_\_\_

# EXHIBIT A

BEFORE THE ARIZONA CORPORATION COMMISSION

Arizona Corporation Commission

DOCKETED

MAY 05 2005

DOCKETED BY

NR

COMMISSIONERS

JEFF HATCH-MILLER, Chairman  
WILLIAM A. MUNDELL  
MARC SPITZER  
MIKE GLEASON  
KRISTIN K. MAYES

IN THE MATTER OF THE APPLICATION OF  
ARIZONA PUBLIC SERVICE COMPANY IN  
CONFORMANCE WITH THE  
REQUIREMENTS OF ARIZONA REVISED  
STATUTES SECTION  
40-360, et seq., FOR A CERTIFICATE OF  
ENVIRONMENTAL COMPATIBILITY  
AUTHORIZING THE WEST VALLEY  
NORTH 230KV TRANSMISSION LINE  
PROJECT, INCLUDING THE  
CONSTRUCTION OF APPROXIMATELY 25  
MILES OF 230KV TRANSMISSION LINES  
AND TWO SUBSTATIONS IN MARICOPA  
COUNTY, ARIZONA, ORIGINATING AT  
THE TS2 SUBSTATION IN SECTION 25  
TOWNSHIP 3 NORTH, RANGE 2 WEST,  
G&SRB&M AND CONTINUING TO THE  
PROPOSED TS1 SUBSTATION IN SECTION  
20, TOWNSHIP 4 NORTH, RANGE 2 WEST,  
G&SRB&M AND TERMINATING AT THE  
PROPOSED TS5 SUBSTATION IN SECTION  
29, TOWNSHIP 4 NORTH, RANGE 4 WEST,  
G&SRB&M

Docket No. L-00000D-04-0127

Case No. 127

DECISION NO. 67828

The Arizona Corporation Commission ("Commission") has conducted its review, pursuant to  
A.R.S. § 40-360.07. The Commission finds and concludes that the Certificate of Environmental  
Compatibility ("CEC") issued by the Arizona Power Plant and Transmission Line Siting Committee  
("Committee") is hereby granted by this Order.

...

...

...

1           The Commission further finds and concludes that: (1) the Project is in the public interest  
2 because it aids the state in meeting the need for an adequate, economical and reliable supply of  
3 electric power; (2) in balancing the need for the Project with its effect on the environment and  
4 ecology of the state, the conditions placed on the CEC by the Committee effectively minimize its  
5 impact on the environment and ecology of the state; (3) the conditions placed on the CEC by the  
6 Committee resolve matters concerning the need for the Project and its impact on the environment and  
7 ecology of the state raised during the course of proceedings, and as such, serve as the findings on the  
8 matters raised; and (4) in light of these conditions, the balancing in the broad public interest results in  
9 favor of granting the CEC.

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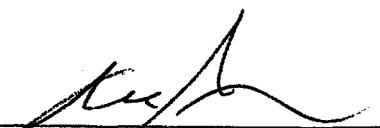
25 . . . .

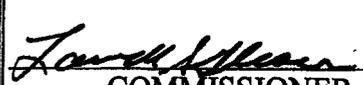
26 . . . .

27 . . . .

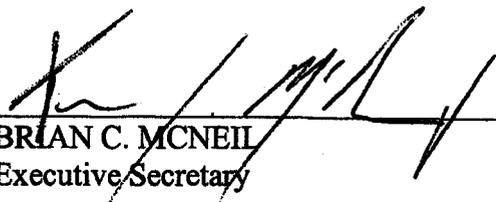
28 . . . .

1 THE CEC ISSUED BY THE SITING COMMITTEE IS  
2 INCORPORATED HEREIN AND IS APPROVED BY ORDER OF THE  
3 ARIZONA CORPORATION COMMISSION  
4

5  CHAIRMAN  
6  COMMISSIONER  
7  COMMISSIONER

8  
9  COMMISSIONER  
10  COMMISSIONER

11  
12 IN WITNESS WHEREOF, I BRIAN C. MCNEIL, Executive  
13 Secretary of the Arizona Corporation Commission, have  
14 hereunto, set my hand and caused the official seal of this  
15 Commission to be affixed at the Capitol, in the City of Phoenix,  
16 this 5<sup>th</sup> day of May,  
17 2005.

18   
19 BRIAN C. MCNEIL  
20 Executive Secretary

21 DISSENT: \_\_\_\_\_

22 DISSENT: \_\_\_\_\_

**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 ARIZONA  
REVISED STATUTES SECTION 40-360,  
*et seq.*, FOR A CERTIFICATE OF  
ENVIRONMENTAL COMPATIBILITY  
AUTHORIZING THE WEST VALLEY  
NORTH 230KV TRANSMISSION LINE  
PROJECT, INCLUDING THE  
CONSTRUCTION OF APPROXIMATELY  
25 MILES OF 230KV TRANSMISSION  
LINES AND TWO SUBSTATIONS IN  
MARICOPA COUNTY, ARIZONA,  
ORIGINATING AT THE TS2  
SUBSTATION IN SECTION 25 TOWNSHIP  
3 NORTH, RANGE 2 WEST, G&SRB&M  
AND CONTINUING TO THE PROPOSED  
TS1 SUBSTATION IN SECTION 20,  
TOWNSHIP 4 NORTH, RANGE 2 WEST,  
G&SRB&M AND TERMINATING AT THE  
PROPOSED TS5 SUBSTATION IN  
SECTION 29, TOWNSHIP 4 NORTH,  
RANGE 4 WEST, G&SRB&M

Docket No. L00000D-04-0127

Case No. 127

Decision No. 67828

**CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY**

Pursuant to notice given as provided by law, the Arizona Power Plant and Transmission Line Siting Committee (the "Committee") held public hearings on January 24 and 25, February 28 and March 1, 2005, all in conformance with the requirements of Arizona Revised Statutes § 40-360, *et seq.*, for the purpose of receiving evidence and deliberating on the Application of Arizona Public Service Company ("Applicant") for a Certificate of Environmental Compatibility in the above-captioned case. A route tour was conducted on February 22, 2005.

1 The following members and designees of members of the Committee were present  
2 at one or more of the hearings for the evidentiary presentations and/or for the  
3 deliberations:

4	Laurie Woodall	Chairman, Designee for Arizona Attorney General, Terry Goddard
5	Ray Williamson	Designee for Chairman, Arizona Corporation 6 Commission
7	Paul Rasmussen	Designee for Director, Arizona Department of 8 Environmental Quality
9	Mark McWhirter	Designee for Director, Energy Department, Arizona Department of Commerce
10	Greg Houtz	Designee Director, Arizona Department of Water Resources
11	Sandie Smith	Appointed Member
12	Jeff McGuire	Appointed Member
13	Margaret Trujillo	Appointed Member
14	A. Wayne Smith	Appointed Member
15	Michael Whalen	Appointed Member
16	Michael Palmer	Appointed Member

17  
18 The Applicant was represented by Thomas H. Campbell and Carol S. Comer of  
19 Lewis and Roca LLP. The following parties were granted intervention pursuant to A.R.S.  
20 § 40-360.05: Arizona Corporation Commission Staff, represented by Lisa Vandenberg and  
21 Diane Targovnik; Pulte Homes, represented by C. Webb Crockett of Fennemore Craig;  
22 Suburban Land Reserve, Inc., Property Reserve Arizona, LLC and Fulton Homes, Inc.,  
23 represented by Richard R. Thomas of Beus Gilbert PLLC; 10,000 West LLC and Stardust  
24 Development, Inc., represented by Lynne A. Lagarde of Earl Curley & Lagarde; South  
25 Side of Olive Avenue Property Owners and Hogan, Parker, Ivan and McDuff, LLC,  
26 represented by Court S. Rich of Rose Law Group, P.C.; Maricopa Water District,

1 represented by John R. Dacey of Gammage & Burnham; and propria persona, Walter W.  
2 Meek.

3 At the conclusion of the hearings, the Committee, having received the Application,  
4 the appearances of the parties, the evidence, testimony and exhibits presented at the  
5 hearings, and being advised of the legal requirements of Arizona Revised Statutes §§ 40-  
6 360 to 40-360.13, upon motion duly made and seconded, voted unanimously to grant the  
7 Applicant a Certificate of Environmental Compatibility (Case No. 127) for authority to  
8 construct the following facilities as requested in the Application: a double circuit 230kV  
9 transmission line with a 69kV underbuild within a corridor as indicated below, two  
10 substations and related facilities.

11 The West Valley – North transmission line route (depicted on Exhibit A (attached))  
12 will begin at the TS2 substation site located on the northwest corner of Loop 303 and  
13 Olive Avenue in Section 25, Township 3 North, Range 2 West (certificated in West  
14 Valley-South, Case 122). From there, the transmission line will extend north along the  
15 west side of Loop 303 within a 1500 foot corridor west of the centerline of Loop 303 and  
16 as close to Loop 303 as the City of Surprise, Maricopa County and the Arizona  
17 Department of Transportation will allow (and is technically feasible) to Cactus Road in  
18 Section 13, Township 3 North, Range 2 West. The line will then continue west along the  
19 north side of Cactus Road within a 1000 foot corridor from the centerline of Cactus and as  
20 close to Cactus Road as the City of Surprise will allow (and is technically feasible) to 0.5  
21 mile east of the 195<sup>th</sup> Avenue/Jackrabbit Trail alignment. The line will then extend north  
22 along the mid-section line between Perryville Road and the 195<sup>th</sup> Avenue/Jackrabbit Trail  
23 alignment in Section 16, Township 3 North, Range 2 West within a 4000 foot corridor  
24 (1,000 feet east and 3,000 feet west of the mid-section line), continue to the mid-section  
25 line 0.5 mile north of Union Hills Drive in Section 28, Township 4 North, Range 2 West,  
26 and then turn west along the mid-section line between Union Hills Drive and Beardsley

1 Road within a 4000 foot corridor (2,000 feet north and 2,000 feet south of the mid-section  
2 line) to a point 0.5 mile west of the 195<sup>th</sup> Avenue/Jackrabbit Trail alignment in Section 29,  
3 Township 4 North, Range 2 West. The line will then extend north along the mid-section  
4 line of Section 20, Township 4 North, Range 2 West within a 4000 foot corridor (1,000  
5 feet east and 3,000 feet west of the mid-section line) into the proposed TS1 230 kV/69 kV  
6 substation after crossing under the existing 500kV transmission lines. The proposed TS1  
7 substation would include up to 10 acres of land located in the SE  $\frac{1}{4}$  of the NW  $\frac{1}{4}$  of  
8 Section 20, Township 4 North, Range 2 West, approximately at the half-section line north  
9 of Beardsley Road. The line will continue west out of the proposed TS1 substation along  
10 the north side of the existing 500kV transmission line corridor, to 243<sup>rd</sup> Avenue within a  
11 1000 foot corridor from the north boundary of the existing transmission line corridor right  
12 of way, turn north on 243<sup>rd</sup> Avenue, which is the section line between Sections 20 and 21,  
13 Township 4 North, Range 3 West within a 1000 foot corridor (500 feet on either side of  
14 the 243<sup>rd</sup> Avenue centerline), and then cross the CAP Canal on the section line between  
15 Sections 16 and 17, Township 4 North, Range 3 West. The line will extend west generally  
16 paralleling the CAP Canal on the north side of the Canal within a 2500 foot corridor from  
17 the fence-line of the Canal until, approximately, the mid-section of Section 20, Township  
18 4 North, Range 4 West where the line will cross to the south side of the CAP Canal. The  
19 line will continue south on the mid-section line of Sections 20 and 29 (291<sup>st</sup> Avenue  
20 alignment), Township 4 North, Range 4 West within a 2000 foot corridor (a 1000 foot  
21 corridor on either side of the 291<sup>st</sup> Avenue alignment), and then into the proposed TS5  
22 500kV/230kV/69kV substation located in Section 29, Township 4 North, Range 4 West,  
23 within the 4000 foot corridor described in the notice of hearing published on November  
24 30, 2004 in the *Arizona Republic* newspaper.

25 The Project shall be constructed with double circuit monopoles from the TS2  
26 substation site to the TS1 substation and from the existing 500kV transmission line

1 corridor at 243<sup>rd</sup> Avenue to the proposed TS5 substation site. Double circuit 69kV may be  
2 constructed on monopoles in all sections where monopoles are placed.

3 The Project shall be constructed with double circuit lattice towers west out of the  
4 TS1 substation until the line turns north from the existing 500 kV transmission line  
5 corridor at 243<sup>rd</sup> Avenue.

6 This Certificate is granted upon the following conditions:

- 7 1. The Applicant shall obtain all required approvals and permits  
8 necessary to construct the Project.
- 9 2. The Applicant shall comply with all existing applicable air and water  
10 pollution control standards and regulations, and with all existing  
11 applicable ordinances, master plans and regulations of the State of  
12 Arizona, the County of Maricopa, the United States, and any other  
13 governmental entities having jurisdiction.
- 14 3. This authorization to construct the Project shall expire 10 years from  
15 the date the Certificate is approved by the Arizona Corporation  
16 Commission unless construction is completed to the point that the  
17 Project is capable of operating by that time; provided, however, that  
18 the authorization to construct the second circuit of the Project shall  
19 expire 20 years from the date of this Certificate; provided however  
20 that prior to either such expiration the Applicant or its assignees may  
21 request that the Commission extend this time limitation.
- 22 4. The Applicant shall make every reasonable effort to identify and  
23 correct, on a case-specific basis, all complaints of interference with  
24 radio or television signals from operation of the transmission line and  
25 related facilities addressed in this Certificate. The Applicant shall  
26 maintain written records for a period of five years of all complaints of

Decision No. **67828**

1 radio or television interference attributable to operation, together with  
2 the corrective action taken in response to each complaint. All  
3 complaints shall be recorded to include notations on the corrective  
4 action taken. Complaints not leading to a specific action or for which  
5 there was no resolution shall be noted and explained. The record shall  
6 be signed by the Applicant and also the complainant, if possible, to  
7 indicate concurrence with the corrective action or agreement with the  
8 justification for a lack of action.

- 9 5. The Project shall comply with applicable noise guidelines of the  
10 federal Department of Housing and Urban Development and the  
11 Environmental Protection Agency.
- 12 6. Applicant shall maintain a setback distance of 100 feet from the toe of  
13 McMicken Dam for any lattice tower or monopole structure related to  
14 the Project.
- 15 7. The Applicant has consulted with the State Historic Preservation  
16 Office ("SHPO") and by letter dated January 6, 2005, SHPO  
17 determined that the Beardsley Canal (AZ T:6:5 ASTM) is eligible for  
18 inclusion in the State Register of Historic Places. In order to  
19 minimize impacts to properties considered eligible for inclusion in the  
20 State and National Register of Historic Places to the extent possible,  
21 the Applicant shall comply with SHPO's recommendations in the  
22 January 6, 2005 letter, including the recommendation that the Project  
23 span Beardsley Canal. A copy of this letter is Attachment B.
- 24 8. If human remains and/or funerary objects are encountered during the  
25 course of any ground disturbing activities relating to the development  
26 of the subject property, Applicant shall cease work on the affected

1 area of the Project and notify the Director of the Arizona State  
2 Museum in accordance with A.R.S. § 41-865.

- 3 9. Applicant shall consult an archeologist during construction activities  
4 in applicable areas, as determined by SHPO, to advise them in  
5 connection with any additional archeological studies that may be  
6 required and any mitigation efforts for archeological sites that may be  
7 affected by the construction of the Project.
- 8 10. After construction, the Applicant, in conjunction with any applicable  
9 land managing agency, shall allow Arizona Site Stewards, a  
10 volunteer-staffed SHPO program, to periodically inspect  
11 archeological sites within the corridor for vandalism or other damage.
- 12 11. The Applicant shall follow the Arizona State Land Department's  
13 instructions, if any, regarding the treatment of State Register of  
14 Historic Places-eligible properties situated on Arizona State Land  
15 Department land in consultation with SHPO.
- 16 12. In consultation with SHPO and the land-managing agency, the  
17 Applicant will consider and assess potential direct and indirect  
18 impacts to eligible properties related to new access roads or any  
19 existing access roads that require blading.
- 20 13. Where practicable, the Applicant shall use existing roads for  
21 construction and access. The Applicant shall minimize vegetation  
22 disturbance outside of the power-line right of way, particularly in  
23 drainage channels and along stream banks, and shall re-vegetate  
24 native areas of construction disturbance outside of the power-line  
25 right of way after construction has been completed.
- 26

Decision No. 67828

1           14.   The Applicant shall use non-specular conductor and dulled surfaces  
2                   for transmission line structures.

3           15.   Within 45 days of securing easement or right of way for the Project,  
4                   the Applicant shall erect and maintain signs providing public notice  
5                   that the property is the site of a future transmission line or substation  
6                   site. Such signage shall be no smaller than a normal roadway sign  
7                   printed on materials of a color designed to attract attention. The  
8                   Applicant shall place signs such that the public is notified along the  
9                   full length of the transmission line until the transmission structures  
10                  are constructed. There must also be signs at the location of the  
11                  proposed substations. The signs shall advise:

- 12                  ● that the site has been approved for the construction of Project
- 13                    facilities including a 230 kV transmission line, as applicable to the
- 14                    individual site;
- 15                  ● the size and location of the respective substations;
- 16                  ● the expected date of completion of the Project facilities;
- 17                  ● a phone number for public information regarding the Project;
- 18                  ● the name of the project;
- 19                  ● the name of the applicant; and
- 20                  ● the applicant's website.

21           16.   In the event that the Project requires an extension of the term of this  
22                   Certificate prior to completion of construction, Applicant shall use  
23                   reasonable means to directly notify all landowners and residents  
24                   within a one-half mile radius of the Project facilities for which the  
25                   extension is sought. Such landowners and residents shall be notified

1 of the time and place of the proceeding in which the Commission  
2 shall consider such request for extension.

- 3 17. Before construction on this Project may commence, the Applicant  
4 must file a construction mitigation and reclamation plan with ACC  
5 Docket Control with copies to affected areas of jurisdiction. The  
6 Applicant shall, within one year of completion of construction of the  
7 Project, revegetate any native area disturbed by construction of the  
8 Project outside of the power-line right of way, except for any road  
9 that may be necessary to access the transmission lines or substation  
10 sites for maintenance and repair.

11 The goals of the Plan will be to:

- 12 • Avoid impacts where practical;  
13 • Where impacts are unavoidable, minimize impacts; and  
14 • Focus on site preparation to facilitate natural processes of  
15 revegetation and drainage.

16 Other key elements of the Plan, when not inconsistent with the  
17 respective land management agencies' or local owners' requirements  
18 are to:

- 19 • Emphasize final site preparation to encourage natural  
20 revegetation;  
21 • Avoid (i.e., preserve), where practical, mature native trees;  
22 • Stipulate a maximum construction corridor width;  
23 • Reserve topsoil and native plant materials from right-of-way  
24 before grading, and distribute over the right-of-way after  
25 construction is complete;  
26

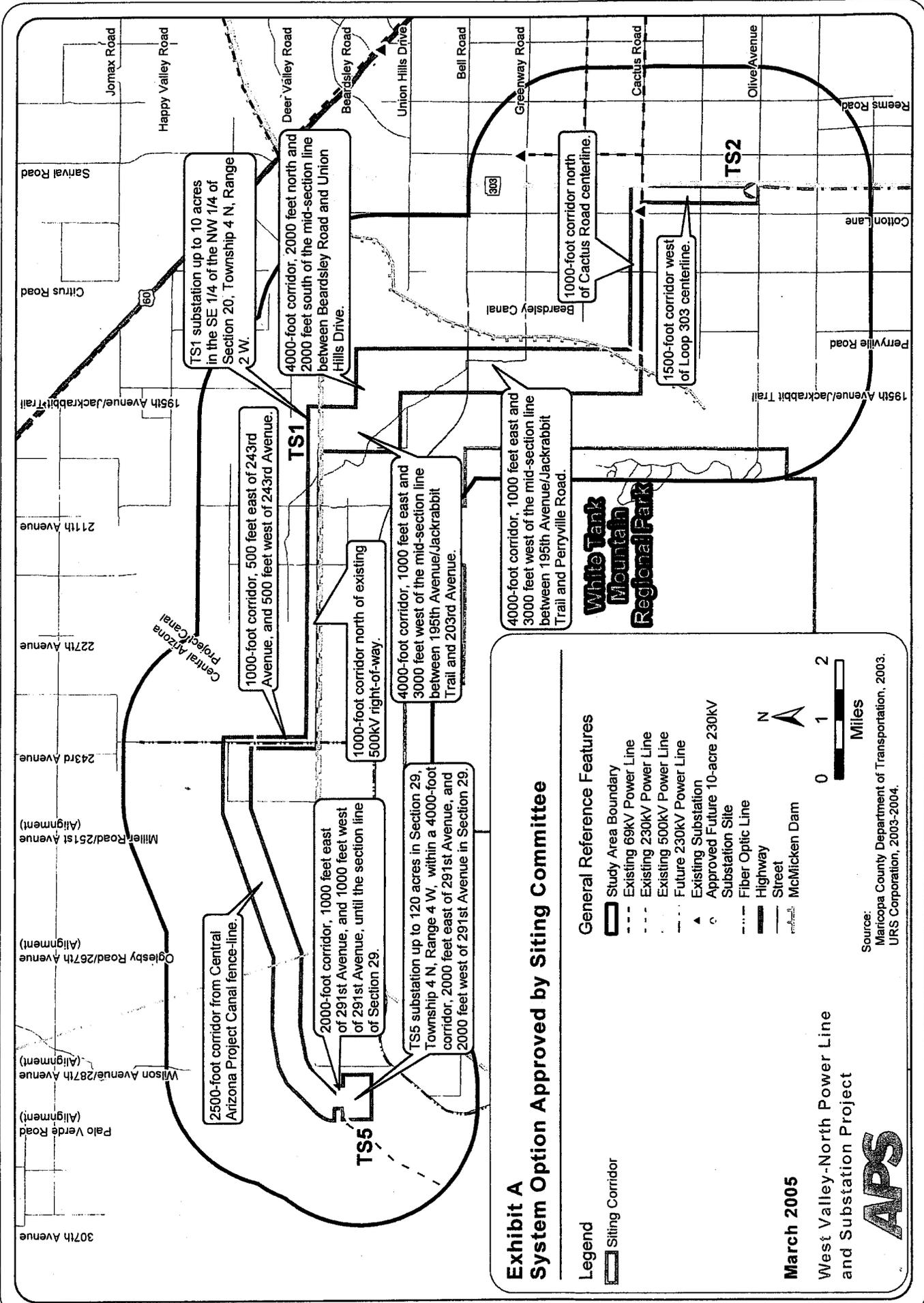
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- Imprint the reclaimed right-of-way to provide indentations to catch seed and water;
  - Implement best management practices to protect the soil;
  - Apply reclamation methods that have been proven effective in the desert environment; and
  - Prevent, where applicable, the spread of noxious weeds or other undesirable species.
18. Applicant shall comply with the mitigation measures contained in the December 27, 2004 letter from Arizona Game and Fish Department to the Power Plant and Transmission Line Siting Committee which is attached as Exhibit C.
19. Applicant shall monitor all ground clearing/disturbance activities that could affect sensitive species or habitat. Where warranted, Applicant shall retain a qualified biologist to conduct pre-construction activities to minimize or prevent impacts to sensitive species or habitat. Specifically, Applicant shall survey or monitor for Sonoran desert tortoises. If desert tortoises are encountered during construction, the Applicant shall follow the Arizona Game & Fish Department's Guidelines for Handling Sonoran Desert Tortoises.
20. Applicant shall salvage mesquite, ironwood, palo verde trees and saguaros removed during project construction activities consistent with Arizona's Native Plant Law and use the vegetation for reclamation in or near its original location.
21. Applicant shall work with the applicable jurisdictions to implement landscaping for the substation sites in accordance with municipal planning and zoning requirements.



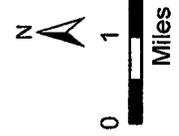
EXHIBIT 'A'

P:\Arizona\_Public\_Service\23444139\GIS\plots\CEC\Exhibit\_A.pdf



**Exhibit A  
System Option Approved by Siting Committee**

- Legend**
- Siting Corridor
  - Study Area Boundary
  - Existing 69kV Power Line
  - Existing 230kV Power Line
  - Existing 500kV Power Line
  - Future 230kV Power Line
  - Existing Substation
  - Approved Future 10-acre 230kV Substation Site
  - Fiber Optic Line
  - Highway
  - Street
  - McMicken Dam



Source:  
Maricopa County Department of Transportation, 2003.  
URS Corporation, 2003-2004.

**March 2005**  
West Valley-North Power Line  
and Substation Project



EXHIBIT 'B'

In reply, please refer to  
SHPO-2004-2278 (22372)  
State Historic Preservation Act  
no historic properties affected

January 6, 2005

Laurie A. Woodall, Chairperson,  
Power Plant and Transmission Line Siting Committee  
Assistant Attorney General, Environmental Enforcement Section,  
Office of the Attorney General  
1275 West Washington  
Phoenix, Arizona 85007

Arizona  
State Parks

Janet Napolitano  
Governor

RE: Arizona Public Service (APS) West Valley-North Transmission Line and  
Substation Project, Maricopa County, Arizona; Case No. 127

State Parks  
Board Members

Dear Ms. Woodall:

Chair  
John U. Hays  
Yarnell

Thank you for consulting with this office regarding the above-mentioned state plan and associated certificate of environmental compatibility. The proposed plan entails the construction of ca. 25.1 miles of overhead utility lines, access roads as needed and two substations. The plan involves mainly private land, although some Maricopa County Flood Control District, Arizona State Land Department, U.S Bureau of Reclamation, lands are present. We received both the Application and a cultural resources survey report. Historian Bill Collins and I reviewed the documents submitted and offer the following comments pursuant to the State Historic Preservation Act (i.e., A.R.S. § 41-861 to 41-864) and the committee's factors to be considered (i.e., A.R.S. § 40-360.06.A.5).

Elizabeth Stewart  
Tempe

William C. Porter  
Kingman

William Cordasco  
Flagstaff

Gabriel Beechum  
Florence

Janice Chilton  
Payson

Mark Windeman  
State Land  
Commissioner

Our advice to a state agency under state law should not be used or construed in any way to substitute for or limit our advice to a federal agency under federal law much less foreclose or limit a federal agency's decision-making ability. If a federal agency is associated with this state plan, they may have undertaking and need to consult with our office directly under Section 106 of the National Historic Preservation Act if they haven't done so already.

Kenneth E. Travous  
Executive Director

The cultural resource survey of the proposed right-of-way corridor identified four historic-period structures, seven historic or prehistoric archaeological sites and 34 isolated artifact and/or feature occurrences (IOs). The report was professionally prepared and well written.

Arizona State Parks  
1300 W. Washington  
Phoenix, AZ 85007

We agree that the Beardsley Canal (AZ T:6:5 ASM) is eligible for inclusion in the State Register of Historic Places. We agree that the Atchison Topeka & Santa Fe Railroad Spur, McMicken Dam, an unnamed earthwork structure (AZ T:7:344 ASM), Site AZ T:6:3.(ASU), and Sites AZ T:6: 13, 14, 96, 97, 98, and 99 (ASM), as

Tel & TTY: 602.542.4174  
www.azstateparks.com

800.285.3703 from  
(520 & 928) area codes

General Fax:  
602.542.4180

Decision No. 67828

Director's Office Fax:  
602.542.4180

Letter to Siting Committee, 1/6/05, Page 2  
Arizona Public Service West Valley-North Transmission Line and Substation Project, Maricopa  
County, Arizona; Case No. 127

well as the 34 IOs are ineligible for inclusion in the State Register of Historic Places at this time. We note that McMicken Dam is not yet 50 years old and its Register-eligibility status may need to be reassessed in the future. Please consider any comments the committee receives from the land-managing agency.

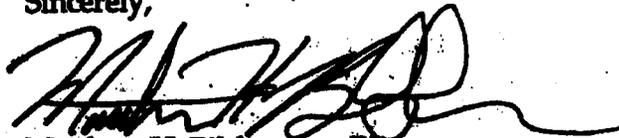
Based on the above, a finding of no impacts (cf. no historic properties affected) is warranted for this plan and no further preservation treatment is needed provided that the transmission line avoids impacting the Beardsley Canal by spanning over it as planned.

We offer the following condition for the committee's consideration:

1) Should an archaeological, paleontological, or historical site or object be discovered during plan-related activities on state, city, or county land, the person in charge is required to notify promptly the Director of the Arizona State Museum and take reasonable steps to secure and maintain the resource's preservation pursuant to state law (i.e., A.R.S. § 41-844). If a discovery involves human remains or funerary objects and occurs on private land, procedures implementing A.R.S. § 41-865 must be followed.

We appreciate the committee's cooperation with this office in considering the effects of state plans on cultural resources situated in Arizona. If you have any questions, please contact me at (602) 542-7137 or via [mbilsbarrow@pr.state.az.us](mailto:mbilsbarrow@pr.state.az.us).

Sincerely,



Matthew H. Bilsbarrow, RPA  
Planner / Archaeologist  
Arizona State Historic Preservation Office

cc.  
Bill Collins, SHPO  
Gene Rogge, URS

Decision No. 67828



THE STATE OF ARIZONA  
**GAME AND FISH DEPARTMENT**

2221 WEST GREENWAY ROAD, PHOENIX, AZ 85023-4399  
(602) 942-3000 • AZGFD.COM

GOVERNOR  
JANET NAPOLITANO  
COMMISSIONERS  
CHAIRMAN, SUSAN E. CHILTON, ARIZONA  
W. HAYS GILSTRAP, PHOENIX  
JOE MELTON, YUMA  
MICHAEL M. GOLDBLITZ, FLAGSTAFF  
WILLIAM H. MCLEAN, GOLD CANYON  
DIRECTOR  
DUANE L. SHROUPE  
DEPUTY DIRECTOR  
STEVE K. FERRELL



December 27, 2004

Ms. Laurie A. Woodall, Chairman  
Power Plant and Transmission Line Siting Committee  
Office of the Attorney General  
1275 West Washington  
Phoenix, Arizona 85007

RECEIVED

BY: *M. D. [Signature]*

Re: Certificate of Environmental Compatibility for the West Valley-North Power Line and Substation Project

Dear Chairman Woodall:

The Arizona Game and Fish Department (Department) has reviewed the above-referenced Certificate of Environmental Compatibility (CEC) for potential impacts to fish and wildlife resources. The Department understands that the proposed project consists of constructing one 230 kilovolt (kV) substation, one 500 kV substation, and associated 230 kV power lines. These infrastructure upgrades are to improve electrical reliability and to accommodate for future electrical load growth occurring within and around the study areas.

Based on information within the CEC application, it appears that the majority of the proposed routes will follow the existing 500 kV power line, Central Arizona Project Canal, routes or roadways in/near residential areas. We support locating power lines along previously disturbed routes to minimize any impacts to wildlife and associated habitats. We also understand that land adjacent to the proposed corridor has been designated for development and would be developed prior to the construction of the power line, further reducing the potential for impacts from this project.

Since various raptor species may use transmission line support structures for perching and/or nesting, the Department recommends that APS follow the established guidelines within their Raptor Protection Program to ensure that necessary preventative measures are incorporated into the project to minimize the potential for electrocution to raptors.

The proposed substation sites as assessed in Exhibit D, conclude disturbance in the area would generate low impacts to wildlife and associated habitats, due to the existing vegetation communities and existing dirt roads; however, the xeroriparian and wash bottom communities do provide important movement corridors for wildlife. The Department supports the recommendations listed in this Exhibit with regards to the Preferred System Option and the avoidance of these wash communities to minimize any potential fragmentation of these corridors.

Decision No. 67828

Ms. Laurie A. Woodall  
December 27, 2004

2

The Department appreciates the opportunity to review this CEC application prior to consideration by the Power Plant and Transmission Line Siting Committee. We look forward to working closely with the Committee in the future to develop potential alternatives and appropriate mitigation to avoid or minimize impacts to fish and wildlife resources as a result of proposed powerplant and transmission line projects. If you have any questions or require any additional information regarding this letter, please contact me at (602) 789-3605.

Sincerely,



Bob Broscheid  
Habitat Branch Chief

BB:kh

cc: Rebecca Davidson, Project Evaluation Program Supervisor  
Russ Haughey, Habitat Program Manager, Region VI  
Mike DeWitt, APS Project Manager

# EXHIBIT B

STATE OF ARIZONA     )  
                                  ) ss.  
COUNTY OF MARICOPA )

**AFFIDAVIT OF D. BRAD LARSEN**

I, D. Brad Larsen, being duly sworn under oath, depose and state:

1. I am a Senior Siting Consultant for Arizona Public Service Company (“APS” or “Company”).

2. I am personally familiar with the Certificate of Environmental Compatibility granted on May 5, 2005 for Case No. 127 (“CEC 127”). CEC 127 authorizes APS to construct approximately 25 miles of a double-circuit 230kV transmission line with a 69kV underbuild, one 230kV substation and one 500kV/230kV substation (the “Project”). The Project will accommodate load growth in the West Valley and will enhance the reliability of the existing electrical system in the future, providing the 230kV backbone necessary to support the development of a local 69kV system.

3. I am personally familiar with the 15-acre right of way (“ROW”) for the Trilby Wash substation (formerly TS1) granted to APS by the Arizona State Land Department in May 2007.

4. At the time this Project was certificated in 2005, APS was evaluating critical infrastructure layout in high-voltage substations. Subsequently, APS’s design included the following changes that increased the size of the enclosed substation area; changes that were not anticipated in 2005. First, APS incorporated design that allowed appropriate clearances between critical equipment, i.e., transformers and control houses, located in this high voltage substation to prevent potential fire spread. Second, APS incorporated into the design, enhanced security measures appropriate for this high voltage substation.

5. Due to changes in utility design practice, the Trilby Wash Substation was located on 15 acres. APS built a block wall enclosing 13 acres of its 15-acre ROW. The electrical facilities are confined to approximately eight (8) acres, within the ten (10) acres originally contemplated. The 15-acre substation site allows better spacing between facilities and contains required space for roadways, water retention basins, drainage area, the security wall, and enhanced security. Maricopa County required additional retention basins not previously contemplated.

6. Trilby Wash Substation site is bordered on the East by a landfill, on the West and North by vacant Trust land managed by the Arizona State Land Department, and on the South by a 500kV transmission line corridor. Additionally, this parcel is located in APS's right-of-way and within the transmission corridor approved in CEC 127.

7. The construction of the Trilby Wash Substation on 15 acres of land does not materially increase the environmental impact, and the environmental analysis performed for the CEC Application included this parcel.

8. Condition 16 of CEC 127 requires APS to "use reasonable means to directly notify all landowners and residents within a one-half mile radius of the Project facilities ... of the time and place of the proceeding in which the Commission shall consider" an extension of the CEC term. Attachment 1 to my affidavit is a draft of a sample notice that APS will use to notify landowners and residents of this request for extension of the CEC term.

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DATED this 29th day of October, 2014.



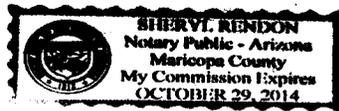
D. Brad Larsen

Sworn to and subscribed before me this 29<sup>th</sup> day of October, 2014.

  
Notary Public

My Commission expires:

Oct. 29, 2014



**BEFORE THE ARIZONA CORPORATION COMMISSION**  
**Docket No. Docket NO. L-00000D-04-0127, Case 127**  
**West Valley-North 230-kV Power Line and Substation Project**

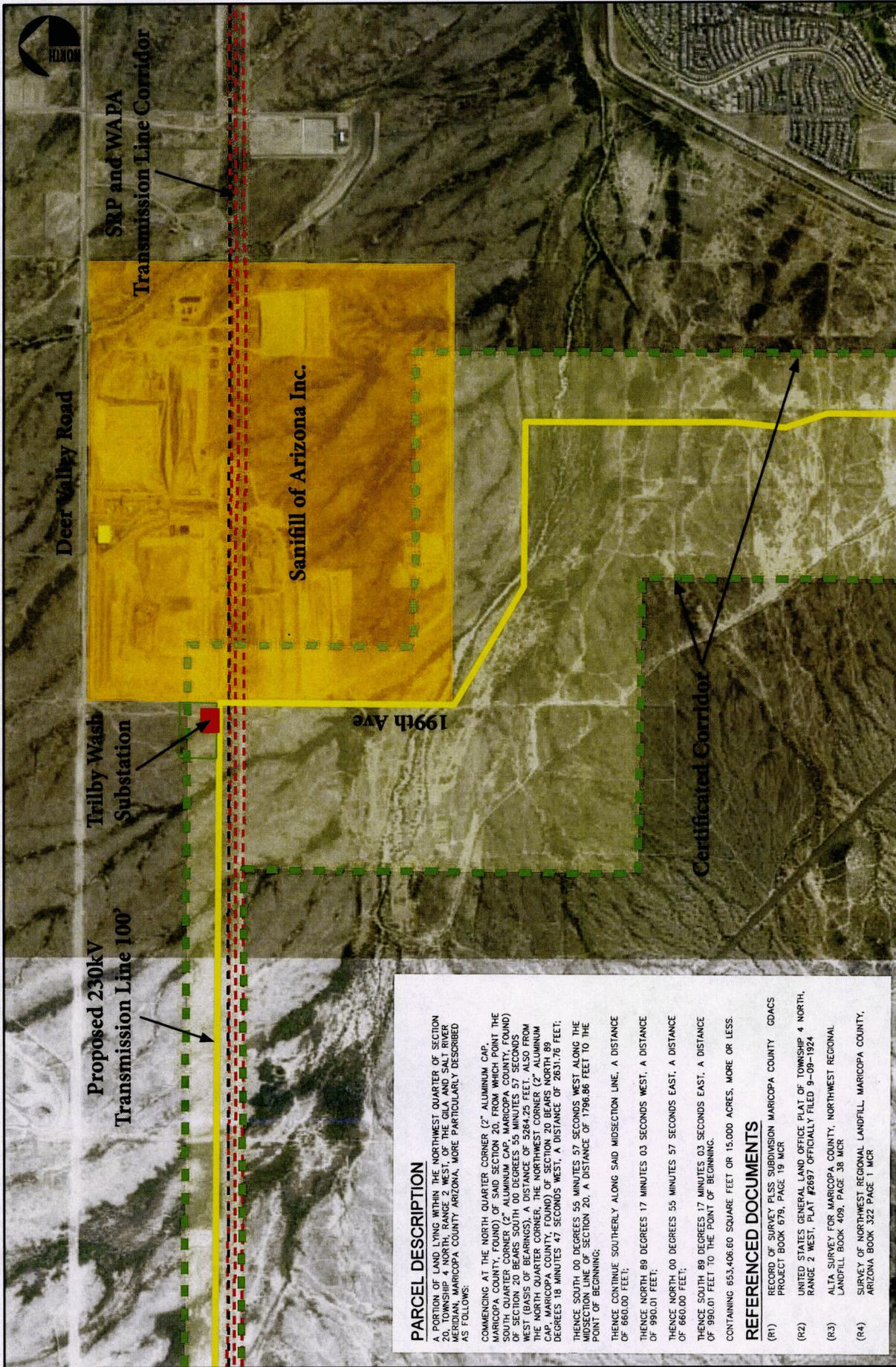
**NOTICE OF OPEN MEETING**

An Open Meeting will be held by the Arizona Corporation Commission (Commission) regarding Arizona Public Service Company's (APS) request to extend the term of the Certificate of Environmental Compatibility (CEC) in the above referenced docket. In Decision No. 67828, the Commission granted APS authorization to construct approximately 25 miles of a double-circuit 230kV transmission line with a 69kV underbuild, one 230kV substation, and one 500kV/230kV substation. APS has requested an extension for an additional five years to May 5, 2020 for the first circuit of the 230kV transmission line, and for an additional five years to May 5, 2030 for the second circuit. Additionally, APS gives the Commission notice that the Trilby Wash Substation (formerly TS1) is located on up to 15 acres of land.

**The Open Meeting will be held at the Arizona Corporation Commission, 1200 West Washington Street, Phoenix, Arizona 85007, Hearing Room \_\_\_ on \_\_\_\_\_, \_\_\_\_\_ at (insert time).**

More information is available at [www.aps.com/siting](http://www.aps.com/siting). Questions on the project may be directed to D. Brad Larsen, Senior Siting Consultant, APS Transmission and Facility Siting Department at 602-493-4338 or by email at [D.Brad.Larsen@aps.com](mailto:D.Brad.Larsen@aps.com). A copy of the Company's application is available on the internet via the Commission's website at [www.azcc.gov](http://www.azcc.gov) using the eDocket function or at the Commission Office.

# EXHIBIT C



**PARCEL DESCRIPTION**  
 A PORTION OF LAND LYING WITHIN THE NORTHWEST QUARTER OF SECTION 20, TOWNSHIP 4 NORTH, RANGE 17 WEST, THE 6TH AND 7TH RANGES, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:  
 COMMENCING AT THE NORTH QUARTER CORNER (2" ALUMINUM CAP, MARICOPA COUNTY, FOUND) OF SAID SECTION 20, FROM WHICH POINT THE SOUTH QUARTER CORNER (2" ALUMINUM CAP, MARICOPA COUNTY, FOUND) OF SECTION 20 BEARS SOUTH 00 DEGREES 55 MINUTES 57 SECONDS WEST, A DISTANCE OF 990.01 FEET; 20 BEARS SOUTH 89 DEGREES 17 MINUTES 03 SECONDS EAST, A DISTANCE OF 990.01 FEET TO THE POINT OF BEGINNING; THE NORTH QUARTER CORNER, THE NORTHWEST CORNER (2" ALUMINUM CAP, MARICOPA COUNTY, FOUND) OF SECTION 20 BEARS NORTH 89 DEGREES 18 MINUTES 47 SECONDS WEST, A DISTANCE OF 2831.76 FEET; THENCE SOUTH 00 DEGREES 55 MINUTES 57 SECONDS WEST ALONG THE BOUNDARY OF SAID SECTION 20, A DISTANCE OF 1790.86 FEET TO THE POINT OF BEGINNING;  
 THENCE CONTINUE SOUTHERLY ALONG SAID MIDSECTION LINE, A DISTANCE OF 860.00 FEET;  
 THENCE NORTH 89 DEGREES 17 MINUTES 03 SECONDS WEST, A DISTANCE OF 990.01 FEET;  
 THENCE NORTH 00 DEGREES 55 MINUTES 57 SECONDS EAST, A DISTANCE OF 860.00 FEET;  
 THENCE SOUTH 89 DEGREES 17 MINUTES 03 SECONDS EAST, A DISTANCE OF 990.01 FEET TO THE POINT OF BEGINNING.  
 CONTAINING 653,408.60 SQUARE FEET OR 15,000 ACRES, MORE OR LESS.

**REFERENCED DOCUMENTS**

- (R1) RECORD OF SURVEY PLUS SUBDIVISION MARICOPA COUNTY GDACS PROJECT BOOK 678, PAGE 19 MCR
- (R2) UNITED STATES GENERAL LAND OFFICE PLAT OF TOWNSHIP 4 NORTH, RANGE 2 WEST, PLAT #2897 OFFICIALLY FILED 9-09-1924
- (R3) ALTA SURVEY FOR MARICOPA COUNTY, NORTHWEST REGIONAL LANDFILL BOOK 409, PAGE 38 MCR
- (R4) SURVEY OF NORTHWEST REGIONAL LANDFILL, MARICOPA COUNTY, ARIZONA BOOK 322 PAGE 1 MCR

# EXHIBIT D

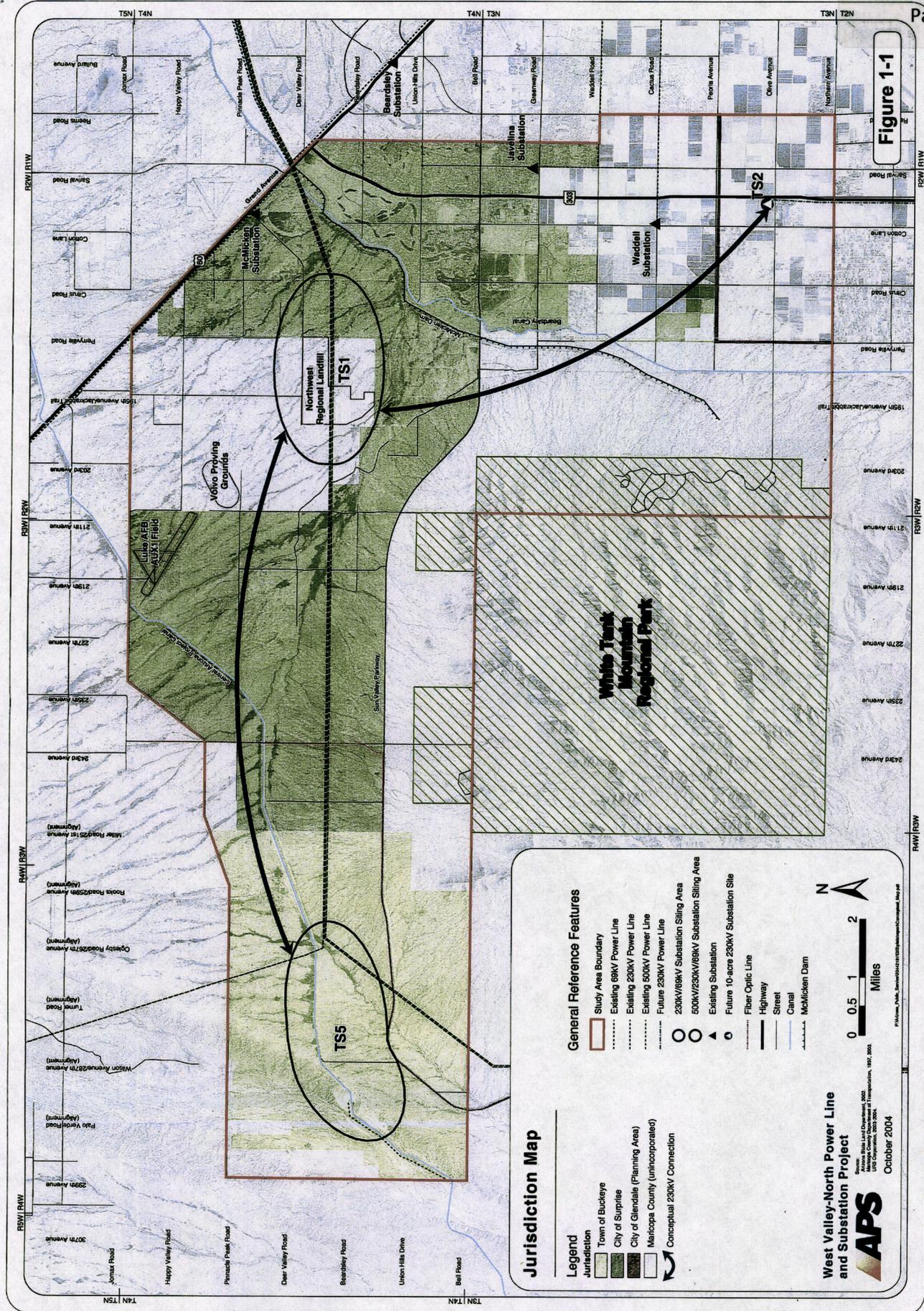


Figure 1-1

**Jurisdiction Map**

**Legend**

- Town of Buckeye
- City of Surprise
- City of Glendale (Planning Area)
- Maricopa County (unincorporated)
- Conceptual 230kV Connection

**General Reference Features**

- Study Area Boundary
- Existing 69kV Power Line
- Existing 230kV Power Line
- Existing 500kV Power Line
- Future 230kV Power Line
- 230kV/69kV Substation Siting Area
- 500kV/230kV/69kV Substation Siting Area
- Existing Substation
- Future 10-acre 230kV Substation Site
- Fiber Optic Line
- Highway
- Street
- Canal
- Melickton Dam

Scale: 0 0.5 1 2 Miles

North Arrow

Source: APS GIS Database, 2005  
Arizona County Government of Incorporation, 1977, 2003  
US Department of Agriculture, 2003, 2004

October 2004

**APS**

**West Valley-North Power Line and Substation Project**