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BEFORE THE ARIZONA POWER PLANT AND TRANSMISSION LINE SITING COMMITTEE

1 IN THE MATTER OF THE APPLICATION)
 2 OF ARIZONA PUBLIC SERVICE)
 3 COMPANY IN CONFORMANCE WITH)
 4 THE REQUIREMENTS OF ARIZONA)
 5 REVISED STATUTES SECTION 40-360,)
 6 et seq., FOR A CERTIFICATE OF)
 ENVIRONMENTAL COMPATIBILITY)
 7 AUTHORIZING THE PALO VERDE HUB TO)
 TS-5 500kV TRANSMISSION PROJECT,)
 8 WHICH INCLUDES A 500kV)
 TRANSMISSION LINE AND ASSOCIATED)
 9 FACILITIES AND INTERCONNECTIONS)
 ORIGINATING FROM EITHER THE PALO)
 10 VERDE NUCLEAR GENERATING)
 STATION SWITCHYARD, SECTION 34,)
 TOWNSHIP 1 NORTH, RANGE 6 WEST,)
 11 G&SRB&M, OR A NEW SWITCHYARD AT)
 THE ARLINGTON VALLEY ENERGY)
 12 FACILITY, IN THE NORTHEAST QUARTER)
 OF SECTION 17, TOWNSHIP 1 SOUTH,)
 13 RANGE 6 WEST, G&SRB&M, EACH)
 LOCATED SOUTH OF INTERSTATE 10)
 14 NEAR WINTERSBURG ROAD IN AN)
 UNINCORPORATED AREA OF MARICOPA)
 15 COUNTY, ARIZONA, TO THE TS-5)
 SUBSTATION NEAR THE HASSAYAMPA)
 16 PUMPING PLANT ALONG THE CENTRAL)
 ARIZONA PROJECT CANAL, IN THE)
 17 TOWN OF BUCKEYE, MARICOPA)
 COUNTY, ARIZONA, AT SECTION 29,)
 18 TOWNSHIP 4 NORTH, RANGE 4 WEST,)
 G&SRB&M)

Docket No. L-00000D-05-0128

Case No. 128

NOTICE OF FILING CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY

AZ CORP COMMISSION DOCUMENT CONTROL

2005 JUN 15 P 2:04

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Arizona Corporation Commission

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20 The Arizona Power Plant and Transmission Line Siting Committee hereby gives

21 Notice of Filing its Decision and Certificate of Environmental Compatibility, for approval by

22 the Arizona Corporation Commission. A copy of the Decision is attached.

DATED, this 15th day of June, 2005.

Laurie A Woodall

Laurie A. Woodall, Chairman
 Arizona Power Plant & Transmission
 Line Siting Committee

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1 ORIGINAL DECISION hand-delivered
2 to the Commissioners' Division, and
3 the Original and 25 copies of this
4 Notice filed this 15th day of June, 2005, with:

5 Docket Control
6 Arizona Corporation Commission
7 1200 West Washington Street
8 Phoenix, AZ 85007

9 COPIES of the foregoing
10 mailed this 15th day of June, 2005, to:

11 Diane Targovnik, Esq.
12 Legal Division
13 Arizona Corporation Commission
14 1200 West Washington Street
15 Phoenix AZ 85007
16 **(Attorney for Staff of Utilities Division of ACC)**

17 Ernest G. Johnson, Director
18 Utilities Division
19 Arizona Corporation Commission
20 1200 West Washington Street
21 Phoenix, AZ 85007

22 Thomas H. Campbell, Esq.
23 Lewis and Roca, LLP
24 Two Renaissance Square
25 40 North Central Avenue
26 Phoenix AZ 85004-4429
Attorney for Applicant


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

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COUNTY, ARIZONA, AT SECTION 29,)
TOWNSHIP 4 NORTH, RANGE 4 WEST,)
G&SRB&M)

Docket No. L-00000D-05-0128

Case No. 128

20 **CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY**

21 Pursuant to notice given as provided by law, the Arizona Power Plant and
22 Transmission Line Siting Committee (the "Committee") held public hearings on June 6
23 and 7, 2005, all in conformance with the requirements of Arizona Revised Statutes
24 (A.R.S.) § 40-360, *et seq.*, for the purpose of receiving evidence and deliberating on the
25 Application of Arizona Public Service Company ("Applicant") for a Certificate of
26 Environmental Compatibility in the above-captioned case.

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 David Eggleston	Designee for Director, Energy Department, Arizona Department of Commerce
10 Sandie Smith	Appointed Member
11 Jeff McGuire	Appointed Member
12 Margaret Trujillo	Appointed Member
13 Michael Whalen	Appointed Member
14 Michael Palmer	Appointed Member

15 The Applicant was represented by Thomas H. Campbell of Lewis and Roca LLP
16 and Karilee Ramaley of the Pinnacle West Capital Corporation Law Department. The
17 following parties were granted intervention pursuant to A.R.S. § 40-360.05: Arizona
18 Corporation Commission Staff, represented by Diane Targovnik and Keith Layton.

19 At the conclusion of the hearings, the Committee, having received the Application,
20 the appearances of the parties, the evidence, testimony and exhibits presented at the
21 hearings, and being advised of the legal requirements of Arizona Revised Statutes §§ 40-
22 360 to 40-360.13, upon motion duly made and seconded, voted unanimously to grant the
23 Applicant a Certificate of Environmental Compatibility (Case No. 128) for authority to
24 construct the following facilities: a 500kV transmission line within a corridor as indicated
25 below and depicted on Attachment A, two switchyards and related facilities including the
26

1 possible consolidation of a portion of the Bureau of Reclamation ("BOR") 230kV line
2 connected to the Central Arizona Project's Hassayampa Pumping Plant (the "Project").

3 The transmission line originates at either the Palo Verde Nuclear Generating Station
4 ("PVNGS") Switchyard (Line Siting Case Nos. 22 and 24) located in Section 34,
5 Township 1 North, Range 6 West or at a new switchyard at the Arlington Valley Energy
6 Facility (Line Siting Case No. 98) located in the northeast quarter of Section 17, Township
7 1 South, Range 6 West. If the line originates at the PVNGS Switchyard, the line will be
8 located within a 1,000-foot corridor on the north side of the existing centerline of the Palo
9 Verde-Devers No. 1 500kV transmission line (Line Siting Case Nos. 34 and 48) for this
10 portion of the route (Link 10 as depicted on the attached map). If the route originates at a
11 new switchyard at the Arlington Valley Energy Facility, the line will be located within a
12 2,500-foot corridor west of the centerline of the existing Harquahala-Hassayampa 500kV
13 transmission line (Line Siting Case No. 96) (Link 20). Both interconnection options
14 proceed to a common point approximately ½ mile west of Wintersburg Road. From this
15 location, the route proceeds west and then northwest, paralleling the existing Palo Verde-
16 Devers No. 1 and Harquahala-Hassayampa 500kV transmission lines to the proposed
17 Harquahala Junction Switchyard located in the southwest quarter of Section 25, Township
18 2 North, Range 8 West near 451st Avenue and the Thomas Road alignment (Link 30). For
19 this portion of the route, the line will be located within a 1,000-foot corridor on the north
20 and east side of the existing centerline of the Palo Verde-Devers No. 1 500kV
21 transmission line. Links 10 or 20 and Link 30 of the Proposed Route will be built in a
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1 later phase if the Harquahala Junction Switchyard is built as part of this Project. If the
2 Harquahala Junction Switchyard is not built as part of this Project, Links 10 or 20 and
3 Link 30 will be constructed at the same time as the other links of this Project. Links 10 or
4 20 and Link 30 will be constructed using lattice tower structures. From the Harquahala
5 Junction Switchyard, the line proceeds generally north across I-10 and the Central Arizona
6 Project ("CAP") Canal parallel to the Palo Verde-Devers No. 1 500kV transmission line
7 (Link 50) within a 1,000 foot corridor on the east side of the centerline of the existing
8 transmission line. Link 50 will be constructed using lattice tower structures. At this point,
9 the route turns easterly and will be located on the north side of the CAP Canal (Links 60,
10 80, 90 and 100) near the foothills of the Belmont Mountains to a point approximately ½
11 mile west of Wickenburg Road. This portion of the line will be located within a 2,000-
12 foot corridor beginning 130 feet north of the centerline of the CAP Canal. Link 60 will be
13 constructed using monopole structures. Links 80, 90, and 100 will be constructed using
14 either lattice tower or monopole structures. At this point, the line will continue in an
15 easterly direction and cross Wickenburg Road approximately ½ mile north of the CAP
16 Canal to a point approximately 1 mile east of Wickenburg Road (Link 110). This portion
17 of the line will be located within a 3,000-foot corridor beginning 130 feet north of the
18 centerline of the CAP Canal. Link 110 will be constructed on either lattice tower or
19 monopole structures. From this point, the route will turn northeast and cross two existing
20 230kV and one existing 345kV transmission lines as well as the Hassayampa River before
21 paralleling the north and west sides of the CAP Canal until it crosses the CAP Canal into
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1 the TS-5 Substation (Line Siting Case No. 127) located in Section 29, Township 4 North,
2 Range 4 West (Links 120 and 130). This portion of the line will be located within a 2,000-
3 foot corridor beginning 130 feet north of the centerline of the CAP Canal and within a
4 corridor on the south side of the CAP Canal adjacent to the TS-5 substation sufficient to
5 interconnect with the TS-5 Substation. The portion of Link 120 located on BLM-managed
6 land will be constructed using either lattice tower or monopole structures. The portion of
7 Link 120 located on private or BOR-managed land and the entirety of Link 130 will be
8 constructed using monopole structures.
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11 This Certificate is granted upon the following conditions:

- 12 1. The Applicant shall obtain all required approvals and permits
13 necessary to construct the Project.
- 14 2. The Applicant shall comply with all existing applicable standards and
15 regulations, and with all existing applicable ordinances, master plans
16 and regulations of the County of Maricopa, the State of Arizona, the
17 United States, and any other governmental entities having jurisdiction
18 including the Bureau of Land Management's Decision Record and
19 Plan of Development.
- 20 3. This authorization to construct shall expire (i) 10 years from the date
21 the Certificate is approved by the Arizona Corporation Commission
22 (the "Commission") for that portion of the Project from the
23 Harquahala Junction Switchyard to the TS-5 Substation; and (ii) 20
24 years from the date this Certificate is approved by the Commission
25 for that portion of the Project from the Palo Verde Hub to the
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1 Harquahala Junction Switchyard, unless construction is completed to
2 the point that the Project is capable of operating by that time;
3 provided however that prior to either such expiration the Applicant or
4 its assignees may request that the Commission extend this time
5 limitation.

6 4. The Applicant shall make every reasonable effort to identify and
7 correct, on a case-specific basis, all complaints of interference with
8 radio or television signals from operation of the transmission line and
9 related facilities addressed in this Certificate. The Applicant shall
10 maintain written records for a period of five years of all complaints of
11 radio or television interference attributable to operation, together with
12 the corrective action taken in response to each complaint. All
13 complaints shall be recorded to include notations on the corrective
14 action taken. Complaints not leading to a specific action or for which
15 there was no resolution shall be noted and explained. The record
16 shall be signed by the Applicant and also the complainant, if possible,
17 to indicate concurrence with the corrective action or agreement with
18 the justification for a lack of action.

19 5. The Project shall comply with applicable noise guidelines of the
20 federal Department of Housing and Urban Development and the
21 Environmental Protection Agency.

22 6. The Applicant shall continue to consult with the State Historic
23 Preservation Office ("SHPO") to reach a determination of any
24 cultural or archaeological impacts as a result of construction
25 activities. The Applicant will provide to SHPO for review and
26 approval a treatment plan (if necessary) to minimize impacts and shall

1 continue to consult with SHPO to resolve any such impacts. The
2 Applicant shall avoid or minimize impacts to properties considered
3 eligible for inclusion in the State and National Register of Historic
4 Places to the extent practicable. Prior to construction, the Applicant
5 agrees to collect the three ceramic vessels identified as IOs 30, 58,
6 and 65 in Section 3.4.2 of the Environmental Assessment (Exhibit B-
7 1 in the application).

8 7. If human remains and/or funerary objects are encountered during the
9 course of any ground disturbing activities relating to the development
10 of the subject property, Applicant shall cease work on the affected
11 area of the Project and notify the Director of the Arizona State
12 Museum in accordance with A.R.S. § 41-865.

13 8. Applicant shall consult an archeologist during construction activities
14 in applicable areas, as determined by SHPO, to advise them in
15 connection with any additional archeological studies that may be
16 required and any mitigation efforts for archeological sites that may be
17 affected by the construction of the Project.

18 9. After construction, the Applicant, in conjunction with any applicable
19 land managing agency, shall allow Arizona Site Stewards, a
20 volunteer-staffed SHPO program, to periodically inspect
21 archeological sites within the corridor for vandalism or other damage.

22 10. The Applicant shall follow the Arizona State Land Department's
23 ("ASLD") instructions, if any, regarding the treatment of State
24 Register of Historic Places-eligible properties situated on Arizona
25 State Land Department land in consultation with SHPO.
26

1 11. Where practicable, the Applicant shall use existing roads for
2 construction and access. The Applicant shall minimize vegetation
3 disturbance outside of the power line right-of-way, particularly in
4 drainage channels and along stream banks, and shall reseed native
5 areas of construction disturbance outside of the power line right-of-
6 way after construction has been completed.

7 12. The Applicant shall use non-specular conductor and dulled surfaces
8 for transmission line structures.

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

- 18 ● that the site has been approved for the construction of Project
19 facilities including a 500 kV transmission line, as applicable; to
20 the individual site;
- 21 ● the size and location of the respective switchyard;
- 22 ● the expected date of completion of the Project facilities;
- 23 ● a phone number for public information regarding the Project;
- 24 ● the name of the Project;
- 25 ● the name of the Applicant; and
- 26 ● the Applicant's website.

- 1 14. In the event that the Project requires an extension of the term of this
2 Certificate prior to completion of construction, Applicant shall use
3 reasonable means to directly notify all landowners and residents
4 adjacent to the right-of-way for the Project facilities for which the
5 extension is sought. Such landowners and residents shall be notified
6 of the time and place of the proceeding in which the Commission
7 shall consider such request for extension.
- 8 15. Before construction on this Project may commence, the Applicant
9 must file a Plan of Development approved by the Bureau of Land
10 Management (“BLM”) with ACC Docket Control with copies to
11 affected areas of jurisdiction. Applicant will comply with the BLM’s
12 Standard Construction and Operating Procedures and Mitigation
13 Measures (Attachment B).
- 14 16. Applicant will provide AGFD with the draft Plan of Development for
15 comment.
- 16 17. Applicant shall monitor all ground clearing/disturbance activities that
17 could affect sensitive species or habitat. Where warranted, Applicant
18 shall retain a qualified biologist to conduct pre-construction activities
19 to minimize or prevent impacts to sensitive species or habitat.
20 Specifically, Applicant shall survey or monitor for Sonoran desert
21 tortoises. If desert tortoises are encountered during construction, the
22 Applicant shall follow the BLM’s *Strategy for Desert Tortoise*
23 *Habitat Management on Public Lands in Arizona*.
- 24 18. Applicant will adhere to Arizona’s Native Plant Law.
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- 1 19. Applicant shall work with the applicable jurisdictions to implement
2 landscaping for the switchyard sites in accordance with municipal
3 planning and zoning requirements.
- 4 20. With respect to the Project, Applicant shall participate in good faith in
5 state and regional transmission study forums, and shall coordinate
6 transmission expansion plans related to the Project to resolve
7 transmission constraints in a timely manner.
- 8 21. Applicant shall provide copies of this Certificate to appropriate city
9 and county planning agencies, SHPO, AGFD and ASLD.
- 10 22. Applicant shall work with developers and homebuilders along the
11 route to encourage them to include the identity and location of the
12 certificated route in the developers' and homebuilders' homeowners'
13 disclosure statement.
- 14 23. Applicant shall publish a copy of this certificate and the attachments
15 on Applicant's project website within 10 days of approval of the
16 Commission.
- 17 24. Applicant shall pursue good faith efforts to reach a commercially
18 reasonable agreement for interconnection at a new Arlington Valley
19 500kV Switchyard and/or a new Harquahala Junction 500kV
20 Switchyard. Applicant shall file with the ACC Utilities Division no
21 later than December 31, 2005, a report summarizing its efforts, the
22 option(s) ultimately selected, and the reasons other option(s) were not
23 selected. Applicant will not sign an Interconnection Agreement to
24 interconnect at the Palo Verde Switchyard until completion of the
25 above requirements.
- 26

ATTACHMENT "A"

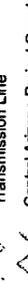
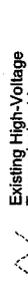
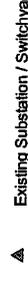
PALO VERDE HUB TO TS-5 500KV TRANSMISSION PROJECT

Attachment A

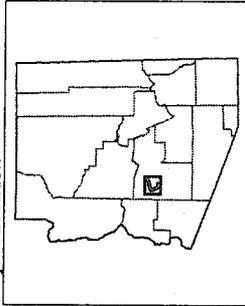
Legend



Reference Features



Project Location

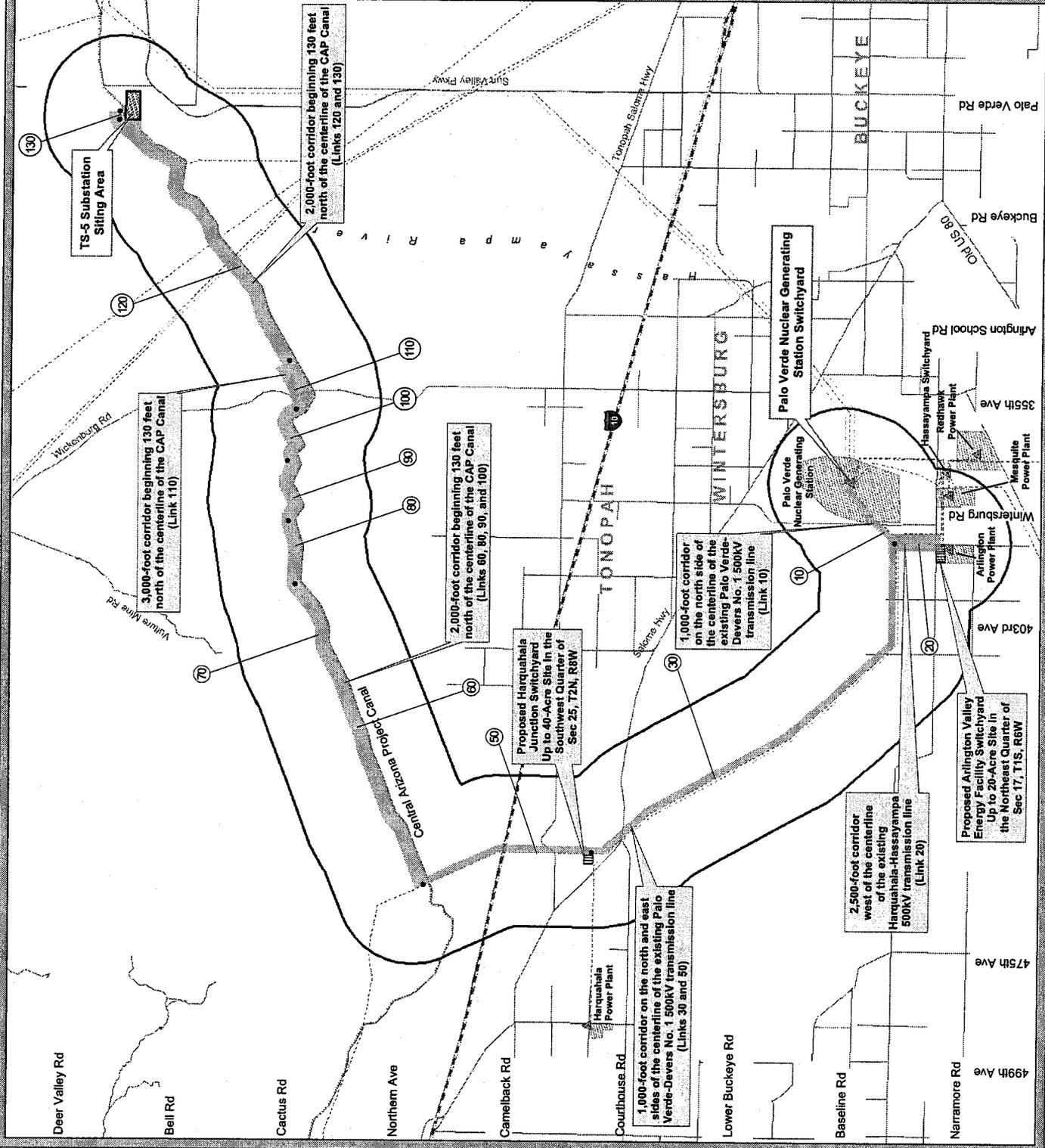


Sources

U.S. Bureau of Land Management (2004).
Arizona Department of Transportation (2004).
U.S. Department of Transportation (2004).



June 8, 2005



ATTACHMENT "B"

ATTACHMENT B
STANDARD CONSTRUCTION AND OPERATING PROCEDURES
AND MITIGATION MEASURES

<p>1. All construction vehicle movement outside of the right-of-way will be restricted to predesignated access, contractor acquired access, or public roads.</p>
<p>2. The limits of construction activities will typically be predetermined, with activity restricted to and confined within those limits. No paint or permanent discoloring agents will be applied to rocks or vegetation to indicate survey or construction activity limits. The right-of-way boundary will be flagged in environmentally sensitive areas described in the specific plan of development to alert construction personnel that those areas should be avoided.</p>
<p>3. In construction areas where recontouring is not required, vegetation will be left in place wherever possible to avoid excessive root damage and allow for resprouting.</p>
<p>4. In construction areas (e.g., marshalling yards, structure sites, spur roads from existing access roads) where ground disturbance is significant or where recontouring is required, surface restoration will occur as required by the landowner or land-management agency. The method of restoration will typically consist of returning disturbed areas to their natural contour (to the extent practical), reseeded or revegetated with native plants (if required), installing cross drains for erosion control, placing water bars in the road, and filling ditches. Seed must be tested and certified to contain no noxious weeds in the mix by the State of Arizona Agricultural Department. Seed viability must also be tested at a certified laboratory approved by the authorized officer.</p>
<p>5. Watering facilities (e.g., tanks, developed springs, water lines, wells, etc.) will be repaired or replaced to their predisturbed conditions as required by the landowner or land-management agency if they are damaged or destroyed by construction activities.</p>
<p>6. Prior to construction, all construction personnel will be instructed on the protection of cultural, paleontological, and ecological resources. To assist in this effort, the construction contract will address (a) federal and state laws regarding antiquities, fossils, and plants and wildlife, including collection and removal; and (b) the importance of these resources and the purpose and necessity of protecting them.</p>
<p>7. Impact avoidance and mitigation measures for cultural resources developed in consultation with BLM and the ASLD will be implemented.</p>
<p>8. The project sponsors will respond to complaints of line-generated radio or television interference by investigating the complaints and implementing appropriate mitigation measures. The transmission line will be patrolled on a regular basis so that damaged insulators or other line materials that could cause interference are repaired or replaced.</p>
<p>9. The project sponsors will apply necessary mitigation to minimize problems of induced currents and voltages onto conductive objects sharing a right-of-way, to the mutual satisfaction of the parties involved.</p>
<p>10. All construction and maintenance activities shall be conducted in a manner that will minimize disturbance to vegetation, drainage channels, and intermittent and perennial streambanks. In addition, all existing roads will be left in a condition equal to or better than their condition prior to the construction of the transmission line.</p>
<p>11. All requirements of those entities having jurisdiction over air quality matters will be adhered to and any necessary permits for construction activities will be obtained. Open burning of construction debris (cleared trees, etc.) will not be allowed on BLM administered lands.</p>

12. Fences and gates, if damaged or destroyed by construction activities, will be repaired or replaced to their original undisturbed condition as required by the landowner or the land-management agency. Temporary gates will be installed only with the permission of the landowner or the land-management agency, and will be restored to their original undisturbed condition following construction.
13. The proposed hardware and conductor will limit the audible noise, radio interference (RI), and television interference (TVI) due to corona. Tension will be maintained on all insulator assemblies to assure positive contact between insulators, thereby avoiding sparking. Caution will be exercised during construction to avoid scratching or nicking the conductor surface, which may provide points for corona to occur.
14. During operation of the transmission line, the right-of-way will be maintained free of construction related non-biodegradable debris.
15. Totally enclosed containment will be provided for all debris. All construction waste including debris, litter, garbage, other solid waste, petroleum products, and other potentially hazardous materials will be removed to a disposal facility authorized to accept such materials.
16. Structures will be constructed to conform to "Suggested Practices for Raptor Protection on Power Lines" (Avian Power Line Interaction Committee 1996).
17. Species protected by the Arizona Native Plant Law will be salvaged. A salvage plan approved by the BLM will be included in the specific plan of development. Generally, salvage may include: <ul style="list-style-type: none"> ■ removal and stockpiling for replanting on site ■ removal and transplanting out of surface disturbance area ■ removal and salvage by private individuals ■ removal and salvage by commercial dealers ■ any combination of the above
18. The alignment of any new access roads or overland routes will follow the designated area's landform contours where possible, providing that such alignment does not additionally impact resource values. This would minimize ground disturbance and reduce scarring.
19. All new access roads not required for maintenance will be permanently closed using the most effective and least environmentally damaging methods appropriate to that area with concurrence of the landowner or land manager (e.g., stock piling and replacing topsoil, or rock replacement). This would limit access into the area. Fencing, signing, and other closure methods will be determined by the BLM and paid for by the contractor or APS.
20. In designated areas, structures will be placed or rerouted so as to avoid sensitive features such as, but not limited to, riparian areas, watercourses, and cultural sites, or to allow conductors to clearly span the features, within limits of standard tower design.
21. Transmission line structures will comply with Federal Aviation Administration Guidelines to minimize aircraft hazards (Federal Aviation 77).
22. Special status species or other species of particular concern will continue to be considered during the construction phase of the Project, in accordance with management policies set forth by the BLM and other appropriate land management agencies. This will entail monitoring for plant and wildlife species of concern along the proposed transmission line and associated facilities (i.e., access roads and staging areas). In cases where such species are identified, appropriate action will be taken to avoid adverse impacts on the species and its habitat.
23. The contractor or APS will submit to BLM a proposed road development plan for inclusion in the Plan of Development for the alignment between Burnt Mountain (Links 60/70) and Link 110. The goal of the plan is to limit new road construction to a minimum and discourage an east to west travel corridor.

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