APPENDIX A STANDARD CONSTRUCTION AND OPERATING PROCEDURES AND MITIGATION MEASURES

APPENDIX A STANDARD CONSTRUCTION AND OPERATING PROCEDURES AND MITIGATION MEASURES

- 1. All construction vehicle movement outside of the right-of-way will be restricted to predesignated access, contractor acquired access, or public roads.
- 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.
- 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.
- 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), reseeding or revegetating 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.
- 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.
- 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.
- 7. Impact avoidance and mitigation measures for cultural resources developed in consultation with the SHPO, BLM, BOR, YPG, ASLD, and the tribes will be implemented.
- 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.
- 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.
- 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.
- 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.

- 12. Fences and gates, if damaged or destroyed by construction activities, will be repaired or replaced to their original predisturbed 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 predisturbed 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. A Spill Contingency Plan and Spill Prevention Control and Countermeasure (SPCC) Plan will be prepared. The SPCC Plan will address prevention and remediation of oil, hydraulic fluid, and petroleum fuel spills including spills that could enter navigable waters of the United States. Oils or chemicals will be hauled to an approved site for disposal. If a spill occurs on BLM land the respective BLM field office will be notified, and a copy of the manifest for disposal of the affected materials will be provided to the BLM.
- 16. Structures will be constructed to conform to "Suggested Practices for Avian Protection on Power Lines" (Avian Power Line Interaction Committee 2006).
- 17. Species protected by the Arizona Native Plant Law will be made available for salvage. A salvage plan approved by the BLM will be included in the specific plan of development.
- 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 POD for the area in and around the Muggins Mountains. The goal of the plan is to limit new road construction to a minimum, restrict unauthorized use of maintenance roads, and discourage a travel route in the Muggins Mountains.

- 24. As-built drawings, including locations of access roads, will be provided to the BLM as required by the right-of-way grant. The drawings will be provided in a format specified by the BLM.
- 25. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or federal land shall be immediately reported to the BLM authorized officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values.



APPENDIX B VISUAL RESOURCES

VISUAL RESOURCE MANAGEMENT OBJECTIVES

BLM VRM classes are assigned to specific landscapes by the BLM that direct acceptable levels of visual intrusions within each class. VRM class guidelines are as follows:

- Class I Objective. The objective of this class is to preserve the existing character of the landscape. This class provides for natural ecological changes; however, it does not preclude very limited management activity. The level of change to the characteristic landscape should be very low and must not attract attention.
- Class II Objective. The objective of this class is to retain the existing character of the landscape. The level of change to the characteristic landscape should be low. Management activities may be seen, but should not attract the attention of the casual observer. Any changes must repeat the basic elements of form, line, color, and texture found in the predominant natural features of the characteristic landscape.
- Class III Objective. The objective of this class is to partially retain the existing character of the landscape. The level of change to the characteristic landscape should be moderate. Management activities may attract attention but should not dominate the view of the casual observer. Changes should repeat the basic elements found in the predominant natural features of the characteristic landscape.
- Class IV Objectives. The objective of this class is to provide for management activities, which require major modifications of the existing character of the landscape. The level of change to the characteristic landscape can be high. These management activities may dominate the view and be the major focus of viewer attention. However, every attempt should be made to minimize the impact of these activities through careful location, minimal disturbance, and repeating the basic elements.



APPENDIX C BIOLOGICAL RESOURCES

Special status species that are known to be present, or that have reasonable potential to be present within the study area based on known distribution or habitat requirements, are noted in Table C-1. Potential impacts to these species have been described in Section 3.5.2 of this EA.

TABLE C-1								
SPECIAL STATUS SPECIES Common Federal State Name Scientific Name Habitat Status Ariz								
		MAMMALS						
California leaf- nosed bat	Macrotus californicus	Sonoran desertscrub with caves or mines for roosts	SC	WC				
Cave myotis	Myotis velifer	Roosts primarily in mines or caves in xeric habitats such as creosote bush or paloverde mixed scrub plant associations. Requires a permanent water source within a few miles of roost	SC					
Pocketed Free- tailed Bat	Nyctinomops femorosaccus	Sonoran desertscrub with cliffs for roosts	SC					
Spotted bat	Euderma maculatum	Dry desert environments, and from below sea level up to conifer habitat		WC				
Desert Bighorn Sheep	Ovis canadensis	Precipitous, desert mountain ranges	SC					
Sonoran Desert Pronghorn	1 1		E	WC				
		BIRDS						
Great Egret	Ardea alba	Aquatic habitat generalists		WC				
Western burrowing owl	Athene cunicularia hypugia	Open country, agricultural areas, urban habitats at golf courses, and airports	SC					
Western Yellow- billed Cuckoo	, , , , , , , , , , , , , , , , , , ,		С	WC				
Southwestern Willow Flycatcher	Empidonax traillii extimus	Lowland riparian woodlands and thickets	Е	WC				
American Peregrine Falcon	nerican Falco peregrinus Open areas with perches		SC	WC				

TABLE C-1						
	SPECIA	L STATUS SPECIES				
Common Name	Scientific Name	Habitat	Federal Status	State of Arizona		
Cactus Ferruginous Pygmy-Owl	aginous brasilianum cactorum wash systems and mesquite,		SC	WC		
Yuma Clapper Rail	Rallus longirostris yumanensis	Freshwater marshes	Е	WC		
		REPTILES	•			
Desert Rosy Boa	Charina trivirgata gracia	Rocky areas with basalt and granite soils in desert ranges, especially in canyons with permanent or intermittent streams	SC			
Desert tortoise (Sonoran population)	Gopherus agassizii	Completely terrestrial desert species requiring firm, but not hard, ground for construction of burrows, frequents desert oases, riverbanks, washes, and rocky slopes	SC	WC		
Common chuckwalla	Sauromalus ater	Rock-dwelling, herbivorous lizard, widely distributed in the desert	SC			
Cowl's Fringe- Toed Lizard	Uma notata rufopunctata	Sparsely vegetated fine windblown sand dunes, flats, riverbanks, and washes of arid desert	SC	WC		
		PLANTS				
Kearney sumac	Rhus kearneyi	Found on north-facing dry cliffs in desert scrub at elevations from 1,000 to 1,500 feet	SS			
Schott Wire Lettuce	Stephanomeria schottii	semi-stabilized sand dunes with creosote bush, white bursage, big galleta grass, and many species of wildflowers at 400 to 800 feet	SS			
Arizona Rosewood	Vauquelinia californica spp. sonorensis	Woodland or forest at the base of cliffs, along canyon bottoms, and on moderate to steep slopes	SS			

Key: Federal Status: SC = Species of concern, E = Endangered, C = Candidate for listing as Endangered, SS = Sensitive species
State Status: WC = Wildlife of special concern in Arizona. HS = Highly Safeguarded (Native Plant Law)
Sources: AZGFD 2004a, 2004b; AOU 1998; Burt and Grossenheider 1980; Degenhardt et al. 1996; Ehrlich et al. 1988; Glinski 1998;
Harvey et al.; 1999; Hoffmeister 1986; ITIS 2005; NGS 2002; Stebbins 2003; Wheeler 2003

TABLE C-2				
MIGRATORY BIRD SPECIES THAT MAY OCCUR IN THE VICINITY OF THE				
PROPOSED PROJECT				

Common Name	Scientific Name	Habitat	
Pied-billed grebe	Podilymbus podiceps	Lakes, ponds, streams, and canals	
Great blue heron	Ardea herodias	Lakes, ponds, streams, canals, and marshes	
Snowy egret	Egretta thula	Ponds, streams, and marshes	
White-faced ibis	Plegadis chihi	Lakes, ponds, streams, marshes, and fields	
Mallard	Anas platyrhynchos	Lakes, ponds, streams, and canals	
Cinnamon teal	Anas cyanoptera	Ponds, streams, and canals	
Turkey vulture	Cathartes aura	Open country, woodlands, farms	
Northern harrier	Circus cyaneus	Wetlands, open fields	
Sharp-shinned hawk	Accipiter striatus	Generally distributed	
Cooper's hawk	Accipiter cooperii	Broken woodlands or streamside groves	
Harris's hawk	Parabuteo unicinctus	Semiarid woodland, brushland	
Swainson's hawk	Buteo swainsoni	Fields and desert	
Red-tailed hawk	Buteo jamaicensis	Plains, prairie groves, desert	
Ferruginous hawk	Buteo regalis	Dry, open country	
American kestrel	Falco sparverius	Open country, cities	
Prairie falcon	Falco mexicanus	Dry, open country, prairies	
Peregrine falcon	Falco peregrinus	Cliffs, generally distributed, tops of tall urban buildings	
Gambel's quail	Callipepla gambelii	Desert scrublands and thickets	
Killdeer	Charadrius vociferus	Ponds, streams, and fields	
White-winged dove Zenaida asiatica Dense mesquite, mature citrus groves, ripar			
		woodlands, saguaro-paloverde deserts	
Mourning dove	Zenaida macroura	Wide variety of habitats	
Common ground dove	Columbina passerina	Fields and hedgerows	
Greater roadrunner	Geococcyx	Scrub desert and mesquite groves, less common in	
	californianus	chaparral and oak woodland	
Barn owl	Tyto alba	Dark cavities in city and farm buildings, cliffs, trees	
Western screech owl	Otus kennicottii	Open woodlands, streamside groves, deserts, suburban	
		areas	
Great horned owl	Bubo virginianus	Common in wide variety of habitats	
Elf owl	Micrathene whitneyi	Desert lowlands, canyons, foothills	
Burrowing owl	Athene cunicularia	Open country, golf courses, airports	
Lesser nighthawk	Chordeiles acutipennis	Dry, open country, scrubland, desert	
Common poorwill	Phalaenoptilus nuttallii	Sagebrush and chaparral slopes	
White-throated swift	Aeronautes saxatalis	Mountains, canyons, and cliffs	
Black-chinned	Archilochus alexandri	Lowlands and low mountains	
hummingbird			
Anna's hummingbird	Calypte anna	Coastal lowlands, mountains, deserts	
Costa's hummingbird	Calypte costae	Desert washes, dry chaparral	
Rufous hummingbird	Selasphorus rufus	Suburban and riparian areas	
Gila woodpecker	Melanerpes uropygialis	Towns, scrub desert, cactus country, streamside woods	
Ladder-backed	Picoides scalaris	Dry brushlands, mesquite and cactus country, towns and	
woodpecker	G 1	rural areas	
Northern flicker	Colaptes auratus	Open woodlands, suburban areas	
Gilded flicker	Colaptes chrysoides	Low desert woodlands, favors saguaro	
Pacific-slope flycatcher	Empidonax difficilis	Migrant through lowlands	
Say's phoebe	Sayornis saya	Dry, open areas, canyons, cliffs	
Ash-throated flycatcher	Myiarchus cinerascens	Wide variety of habitats	

TABLE C-2				
MIGRATORY BIRD SPECIES THAT MAY OCCUR IN THE VICINITY OF THE				
PROPOSED PROJECT				

PROPOSED PROJECT					
Common Name	Scientific Name	Habitat			
Brown-crested flycatcher	Myiarchus tyrannulus	Saguaro desert, river groves, lower mountain woodlands			
Western kingbird	Tyrannus verticalis	Dry, open country			
Common raven	Corvus corax	Mountains, deserts, coastal areas			
Horned lark	Eremophila alpestris	Dirt fields, gravel ridges, shores			
Tree swallow	Tachycineta bicolor	Streams, ponds, and lakes			
Violet-green swallow	Tachycineata	Riparian areas, streams, ponds, and lakes			
	thalassina				
Northern rough-winged	Stelgidopteryx	Banks of streams and canals, streams, ponds, and lakes			
swallow	serripennis				
Cliff swallow	Petrochelidon	Lakeside, cliffs, and canals; nesting under nearby bridges,			
	pyrrhonota	buildings, and other overhangs; streams and ponds			
Verdin	Auriparus flaviceps	Southwestern desert			
Cactus wren	Campylorhynchus	Cholla cactus habitat			
	brunneicapillus				
Rock wren	Salpinctes obsoletus	Arid and semiarid habitats			
Canyon wren	Catherpes mexicanus	Canyons and cliffs, often near water			
Bewick's wren	Thryomanes bewickii	Wooded riparian areas			
Ruby-crowned kinglet	Regulus calendula	Woodlands, thickets			
Black-tailed gnatcatcher	Polioptila melanura	Desert, especially washes			
Northern mockingbird	Mimus polyglottos	Variety of habitats			
Bendire's thrasher	Toxostoma bendirei	Open farmlands, grasslands, brushy desert			
Curve-billed thrasher Toxostoma curvirostre		Cholla deserts and suburban areas			
Phainopepla Phainopepla nitens		Riparian areas, especially in trees with mistletoe			
		Generally distributed			
		Generally distributed			
Orange-crowned warbler <i>Vermivora celata</i> Riparian and suburban areas in lowlands					
Lucy's warbler					
Yellow-rumped warbler	Dendroica coronata				
Wilson's warbler	Wilsonia pusilla	Dense, moist woodlands, bogs, streamside tangles			
Western tanager	Piranga ludoviciana	Transient in lowlands			
Green-tailed towhee	Pipilo chlorurus	Brushy areas, riparian, and suburban areas			
Canyon towhee	Pipilo fuscus	Sonoran desertscrub			
Abert's towhee	Pipilo aberti	Riparian areas, suburban areas			
Chipping sparrow	Spizella pallida	Brushy edges and riparian areas			
Brewer's sparrow	Spizella breweri	Deserts, field edges, and suburban areas			
Vesper sparrow	Pooecetes gramineus	Open weedy fields, roadsides, and grassy areas			
Lark sparrow	Chondestes grammacus	Brushy, weedy areas, riparian areas, and field edges			
Black-throated sparrow	Amphispiza bilineata	Desertscrub			
Lark bunting	Calamospiza	Brushy desert and field edges			
Lark builting	melanocorys	Brushy desert and field edges			
Savannah sparrow	Passerculus	Open fields, roadsides, and grassy areas			
Sa amun sparrow	sandwichensis	open mondo, roudordes, and grassy areas			
White-crowned sparrow	Zonotrichia leucophrys	Suburban, riparian, and other brushy areas			
Diack-licated grosocak		Transport in lowings			
Northern cardinal		Woodland edges swamps streamside thickets suburban			
roman calumal	Caramans caramans				
Black-headed grosbeak Northern cardinal	Pheucticus melanocephalus Cardinalis cardinalis	Transient in lowlands Woodland edges, swamps, streamside thickets, suburba gardens			

TABLE C-2 MIGRATORY BIRD SPECIES THAT MAY OCCUR IN THE VICINITY OF THE					
PROPOSED PROJECT Common Name Scientific Name Habitat					
Pyrrhuloxia	Cardinalis sinuatus	Thorny brush, mesquite thickets, desert, woodland edges, ranchlands			
Lazuli bunting Passerina amoena Weedy and shrubby areas along irrigation dite other bodies of water and suburban areas		Weedy and shrubby areas along irrigation ditches and other bodies of water and suburban areas			
Western meadowlark	Sturnella neglecta	Fields and other open areas, deserts			
Brown-headed cowbird Molothrus ater Suburbs and agricultural areas		Suburbs and agricultural areas			
Hooded oriole		Riparian and suburban areas			
House finch Carpodacus mexicanus Riparian and suburban areas, farmland, desert		Riparian and suburban areas, farmland, desert			
Lesser goldfinch Carduelis psaltria Riparian areas, brushy desert scrub					
Sources: National Geographic Society 2002; Witzeman et al. 1997					

Additional Sonoran Desert Tortoise Mitigation

A desert tortoise protection education program shall be presented to all employees, inspectors, supervisors, contractors, and subcontractors who carry out proposed activities at the project site. The education program shall include discussions of the following:

- The legal and sensitive status of the tortoise
- A brief discussion of tortoise life, history, and ecology
- Mitigation measures designed to reduce adverse effects to tortoises
- Protocols to follow if a tortoise is encountered, including appropriate contact points

The project proponent shall designate a field contact representative (FCR) who shall be responsible for overseeing compliance with these mitigation measures and for coordination on compliance with the BLM. The FCR and authorized/qualified biologist(s) shall have the authority and the responsibility to halt all project activities that are in violation of these mitigation measures. The FCR shall be responsible for oversight of compliance with these mitigation measures, coordination with permitting agencies, land managers, and State Game and Fish Departments; and shall serve as a contact point for personnel that encounter desert tortoises. The FCR shall be on site during project activities and shall be familiar with and have a copy of these mitigation measures.

Prior to any surface-disturbing activities, work sites shall be surveyed for desert tortoises by a qualified biologist approved by the BLM. Surveys shall be in accordance with U.S. Fish and Wildlife Service protocol (Service 1992). For surface-disturbing activities occurring during the desert tortoise season (March 1 through November 1), surveys shall be conducted within 24 hours of initiation of surface-disturbing activities. The 100-percent surveys of new areas of disturbance shall be conducted a maximum of three times, or two consecutive times if no desert tortoises are found. During surveys, occupied desert tortoise burrows in or within 40 feet of areas to be disturbed shall be excavated using hand tools by an authorized biologist. Burrows discovered in areas to be disturbed by project activities shall be collapsed or blocked to prevent entry by tortoises (any tortoises in those burrows shall be relocated first). Desert tortoises and

any desert tortoise eggs found in areas to be disturbed shall be relocated and handled in accordance with the following measure.

If a tortoise is found in a project area, activities shall be modified to avoid injuring or harming it. If activities cannot be modified, tortoises shall be moved from harm's way. Upon discovery of a desert tortoise in harm's way, the authorized biologist shall translocate the animal the minimum distance possible (but not more than 2 miles) within appropriate habitat to ensure its safety from death, injury, or collection associated with the project or other activities. The authorized biologist shall be allowed some discretion to ensure that survival of each relocated desert tortoise is likely. Desert tortoises shall not be translocated to lands outside the administration of the Federal government without the written permission of the landowner.

Handling procedures for desert tortoises shall adhere to protocols outlined in the *Management Plan for the Sonoran Desert Population of the Desert Tortoise in Arizona* (December 1996) (document attached).

Only biologists authorized by the BLM and the appropriate State Fish and Game Department shall handle desert tortoises. The holder shall submit the name(s) of the proposed authorized biologist(s) to the BLM for review and approval at least 45 days prior to the onset of activities that could result in a take.

The authorized biologist shall maintain a record of all desert tortoises encountered during project activities. This information shall include for each desert tortoise:

- The locations and dates of observation;
- General condition and health, including injuries and state of healing and whether animals voided their bladders:
- Location moved from and location moved to; and
- Diagnostic markings; i.e., identification numbers of marked lateral scutes.

No notching of scutes or replacement of fluids with a syringe is authorized.

Vehicle use shall be limited to existing or designated routes.

Areas of new construction or disturbance shall be flagged or marked on the ground prior to construction. All construction workers shall strictly limit their activities and vehicles to areas that have been marked. Construction personnel shall be trained to recognize markers and understand the equipment movement restrictions involved.

Blading of new access or work areas shall be minimized. Disturbance to shrubs shall be avoided. If shrubs cannot be avoided during equipment operation or vehicle use, they shall be crushed rather than excavated or bladed and removed.

Project features that might trap or entangle desert tortoises such as open trenches, pits, open pipes, etc., shall be covered or modified to prevent entrapment. (This may only be necessary

during the tortoise active season and may be unnecessary if an on-site biologist is monitoring activities - see Suggested Mitigation Measures for Projects Conducted During the Tortoise Activity Period below.)

Construction sites shall be maintained in a sanitary condition at all times. The project proponent shall be responsible for controlling and limiting litter, trash, and garbage by immediately placing refuse in predator-proof, sealable receptacles. Trash and debris shall be moved when construction is complete.

After completion of the project, trenches, pits, and other features in which tortoises could be entrapped or entangled, shall be filled in, covered, or otherwise modified so they are no longer a hazard to desert tortoises.

After project completion, measures shall be taken to facilitate restoration, where practicable. Restoration techniques shall be tailored to the characteristics of the site and the nature of project impacts identified in the mitigation plan as developed by project biologists, Arizona Game and Fish Department, and permitting State and Federal agencies. Techniques may include removal of equipment and debris, recontouring, replacing boulders that were moved during construction, seeding, planting, transplanting of cacti and yuccas, etc. Only native plant species shall be used in restoration.

The project proponent shall submit a monitoring report to the BLM within 60 days of project completion. For long-term or ongoing projects that may result in continuing impacts to tortoises and habitat, annual monitoring reports shall be prepared. Monitoring reports shall briefly document the effectiveness of the desert tortoise mitigation measures, actual acreage of desert tortoise habitat disturbed, the number of desert tortoises excavated from burrows, the number of desert tortoises moved from construction sites, and other applicable information on individual desert tortoise encounters. The report shall make recommendations for modifying or refining the mitigation program to enhance desert tortoise protection and reduce needless hardship on the project proponents.

In accordance with Compensation for the Desert Tortoise (Desert Tortoise Compensation Team 1991), signed by Desert Tortoise Management Oversight Group, authorizing agencies shall require compensation for residual impacts to desert tortoise habitat (see Table 4, page 27 of Management Plan for the Sonoran Desert Population of the Desert Tortoise in Arizona).

Oil, fuel, pesticides, and other hazardous material spills shall be cleaned up and properly disposed of as soon as they occur in accordance with applicable State and Federal regulations. All hazardous material spills must be reported promptly to the appropriate surface management agencies and hazardous materials management authorities.

Workers shall check under vehicles for desert tortoises before vehicles are moved. If tortoises are found, they shall be allowed to move out of harm's way on their own or shall be moved by an authorized biologist prior to moving the vehicle.

No unleashed pets (e.g., dogs) shall be allowed on the construction site.

In desert tortoise habitat, project-related vehicles shall not exceed 25 miles per hour on unpaved roads.

Use of roads constructed for specific nonpublic purposes such as access routes to microwave towers shall be gated to limit access.

Temporary access routes created during project construction shall be modified as necessary to prevent further use. Closure of access routes shall be achieved by ripping, barricading, posting the route as closed, and/or seeding and planting with native plants.

Projects Conducted During Tortoise Activity Period (Typically March 1 to November 1)

For projects conducted during normal tortoise activity period (typically March 1 to November 1), construction and operation activities shall be monitored by a qualified biologist (approved by the BLM). The biologist shall be present during all activities in which encounters with tortoises may occur. The biologist shall watch for tortoises wandering into construction areas, check under vehicles, check at least three times per day any excavations that might trap tortoises, and conduct other activities necessary to ensure that death and injury of tortoises in minimized.

If any Gila monsters or desert tortoises are observed, their location shall be recorded and the sighting along with any information concerning the sighting shall be reported to the BLM wildlife biologist at the YFO, 2555 E. Gila Ridge Road, Yuma, AZ, 85365, telephone number (520) 317-3200.



PALO VERDE HUB TO NORTH GILA 500kV TRANSMISSION LINE PROJECT BLM ENVIRONMENTAL ASSESSMENT PUBLIC COMMENT AND RESPONSE SUMMARY TABLE*

Date 2/6/2006 2/7/2006 2/7/2006 2/8/2006	Name Richard Issacson, Retired USAF MSGT Shane, Fred Kawasaki Pierre M. Cantou	Comment Source Letter Phone	Issue Project description Project description	Comment (summary) Approve of proposed 500kV line as submitted	EA Location of Response No comment
2/7/2006	USAF MSGT Shane, Fred Kawasaki Pierre M. Cantou		1	Approve of proposed 500kV line as submitted	-
2/7/2006	Pierre M. Cantou	Phone	Draigat description		
			Project description	Approve of proposed 500kV line as submitted	No comment
2/8/2006		Letter	Project description	Concern for Yuma Indian Reservation	Refer to Chapter 1, Section 1.1
	Peter Steere, Tohono	Phone	Project alternatives	Location of route within BLM-designated corridor	Refer to Chapter 1, Section 1.1
	O'odham		Project description	Relationship to the Welton/Mohawk land transfer	Refer to Chapter 1, Section 1.1
2/8/2006	Christopher Coover, Parks and Recreation Dept. of Maricopa County	Email	Land use (recreation)	No adverse impact on the Maricopa Trail	Refer to Chapter 3, Section 3.2.1
2/9/2006	Ricky L. Rinehart, Adelphia	Letter	None	Approve of proposed 500kV line as submitted	No comment
2/10/2006	Jerry Ramirez, ADOT (Yuma)	Phone	Land use	Project must receive an encroachment permit from ADOT prior to any work in ADOT right-of-way	APS will coordinate with ADOT
2/10/2006	2/10/2006 Ron Pierce, USMC	Phone	Cumulative impacts	Relationship to proposed WAPA line	Refer to Chapter 4, Section 4.2.1
			Project description	Question destination of energy	Refer to Chapter 1, Section 1.2
			Project need	Question need for both APS and WAPA lines	Refer to Chapter 1, Section 1.2
2/14/2006	Andy, Rinker Materials	Phone	Land use (mineral rights)	Concern for state lease land	Refer to Chapter 1, Section 1.1
2/14/2006	Gayle Rusing, Greater Yuma Economic Development Corporation	Letter	Project description	Approve of proposed 500kV line as submitted	No comment
2/14/2006	Carla Cristelli, Department of Energy,	Letter	Construction	Need detailed right-of-way plans; no excavation within 20 feet of WAPA poles; no appreciable change to topography near WAPA line	Refer to Chapter 2, Section 2.2.1
	Western Area Power Administration		Mitigation	Maintain clear zone around WAPA poles for maintenance; prevent soil erosion	Refer to Chapter 2, Section 2.2.1
2/17/2006	John Eckhardt, ADOT, Intermodal Transportation Division	Letter	Land use	Project must receive an encroachment permit from ADOT prior to any work in ADOT right-of-way	APS will coordinate with ADOT
2/21/2006	Mike Cartsonis, City of Litchfield Park	Letter	None	Project distant from jurisdiction	No comment
2/23/2006		Letter	Project description	Project description is vague	Refer to Chapter 1, Section 1.1
	-		Land use	Question if public land granted for ROW is lost for future use by public	Refer to Chapter 2, Section 2.2.1
			Document review	Would like to receive a copy of the draft/final EA when available	BLM to determine
	2/10/2006 2/10/2006 2/14/2006 2/14/2006 2/14/2006 2/17/2006	County 2/9/2006 Ricky L. Rinehart, Adelphia 2/10/2006 Jerry Ramirez, ADOT (Yuma) 2/10/2006 Ron Pierce, USMC 2/14/2006 Andy, Rinker Materials 2/14/2006 Gayle Rusing, Greater Yuma Economic Development Corporation 2/14/2006 Carla Cristelli, Department of Energy, Western Area Power Administration 2/17/2006 John Eckhardt, ADOT, Intermodal Transportation Division 2/21/2006 Mike Cartsonis, City of Litchfield Park	County 2/9/2006 Ricky L. Rinehart, Adelphia 2/10/2006 Jerry Ramirez, ADOT (Yuma) 2/10/2006 Ron Pierce, USMC Phone 2/14/2006 Andy, Rinker Materials Phone 2/14/2006 Gayle Rusing, Greater Yuma Economic Development Corporation 2/14/2006 Carla Cristelli, Department of Energy, Western Area Power Administration 2/17/2006 John Eckhardt, ADOT, Intermodal Transportation Division 2/21/2006 Mike Cartsonis, City of Litchfield Park	County 2/9/2006 Ricky L. Rinehart, Adelphia 2/10/2006 Jerry Ramirez, ADOT (Yuma) 2/10/2006 Ron Pierce, USMC Phone 2/14/2006 Andy, Rinker Materials Phone 2/14/2006 Gayle Rusing, Greater Yuma Economic Development Corporation 2/14/2006 Carla Cristelli, Department of Energy, Western Area Power Administration 2/17/2006 John Eckhardt, ADOT, Intermodal Transportation Division 2/21/2006 Mike Cartsonis, City of Litchfield Park 2/23/2006 Sheree Ann Wetjen Letter None Land use Cumulative impacts Project description Project description Cumulative impacts Project description Project description Land use Letter Land use	County Ricky L. Rinchart, Adelphia Ade

PALO VERDE HUB TO NORTH GILA 500kV TRANSMISSION LINE PROJECT BLM ENVIRONMENTAL ASSESSMENT PUBLIC COMMENT AND RESPONSE SUMMARY TABLE*

Comment			Comment			
No.	Date	Name	Source	Issue	Comment (summary)	EA Location of Response
15	2/27/2006	Frank R. Jozwiak,	Letter	Project description	Location of proposed route	Refer to Chapter 1, Section 1.1
		Morisset, Schlosser,		Earth and water resources	Impacts to allocated Colorado River water	Refer to Chapter 3, Section 3.7
		Jozwiak & McGaw Law				
		Offices, on behalf of the				
		Quechan Indian Tribe				
16	3/2/2006	Steven L. Spangle,	Letter	Biology	General information on how to obtain lists of threatened, endangered, or	Refer to Chapter 3, Section 3.5
		United States Department			sensitive species	
		of the Interior, USFWS,				
		Arizona Ecological				
1.7	2/2/2006	Services Field Office	¥		XX 1111	DYNG 1
17	3/3/2006	Merle Eugene Zunigha,	Letter	Document review	Would like to receive a copy of the draft/final EA when available	BLM to determine
		United States Department				
		of the Interior, Bureau of Indian Affairs				
18	3/15/2006		Latton	Project description	Supports Dath 40 Conductor Classense ungrade unrelated to proposed	No comment
10	3/13/2000	Gregory T. Glassco, Yavapai-Prescott Indian	Letter	Project description	Supports Path 49 Conductor Clearance upgrade, unrelated to proposed	No comment
		Tribe			project	
19	3/15/2006	Laura Verdugo, Southern	Email	Project alternatives	Information on alternatives, interconnection points	Refer to Chapter 1, Section 1.1
19	3/13/2000	California Edison	Lillali	1 Toject alternatives	information on atternatives, interconnection points	Refer to Chapter 1, Section 1.1
		Company				

*Table reflects comments submitted directly to the BLM in response to informational letters mailed in January 2006