

**ORIGINAL**

**SOUTHWESTERN**  
Power Group II, LLC  
An Energy Company - Alliance Builder



RP

Docket No. E-00000D-09-0020

January 28, 2010

Arizona Corporation Commission  
**DOCKETED**

JAN 28 2010

Docket Control  
Arizona Corporation Commission  
1200 West Washington  
Phoenix, Arizona 85007

DOCKETED BY	<i>MS</i>
-------------	-----------

RECEIVED  
2010 JAN 28 1 P 3 48  
AZ CORP COMMISSION  
DOCKET CONTROL

Subject: Bowie Power Station, L.L.C.  
Ten Year Plan for 2010  
Decision Nos. 64625, 64626, 69339 and 70588

To Whom It May Concern:

Pursuant to A.R.S. § 40-360.02 (A) and (C), Bowie Power Station, L.L.C. ("Bowie") hereby submits its Ten Year Plan filing for the year 2010 for the transmission line facilities which are the subject of the Certificate of Environmental Compatibility ("CEC") which was granted by the Commission on March 7, 2002 in Decision No. 64626, and subsequently extended through December 31, 2010 by the Arizona Corporation Commission ("Commission") on February 20, 2007 in Decision No. 69339. Bowie received approval of the Commission for an amendment to Decision No. 64626 that brought the project's transmission line and Willow Substation placement into compliance with the ASLD's requirements. The nature of this amendment is set forth in Decision No. 70588, dated November 6, 2008. Appendix "A" is a map depicting the approved 345 kV transmission line alignment and Willow Substation location, as documented in Decision No. 70588. As used herein, the phrase "transmission line" includes all facilities contained within the definition of that phrase as set forth in A.R.S. § 40-360.

The information requirements set forth in A.R.S. § 40-360.02 (C) are found in Appendix "B".

Bowie continues its active involvement in regional transmission planning organizations, including WestConnect, the Southwest Area Transmission Study group and the latter's subcommittees. Additionally, through its parent-owner, SouthWestern Power Group, Bowie remains an Affiliate Member in good standing in the Western Electricity Coordinating Council.

Please direct any questions that may arise from this report to the undersigned at (602) 808-2004.

Sincerely,



Tom C. Wray  
Manager, Transmission and Generation Projects

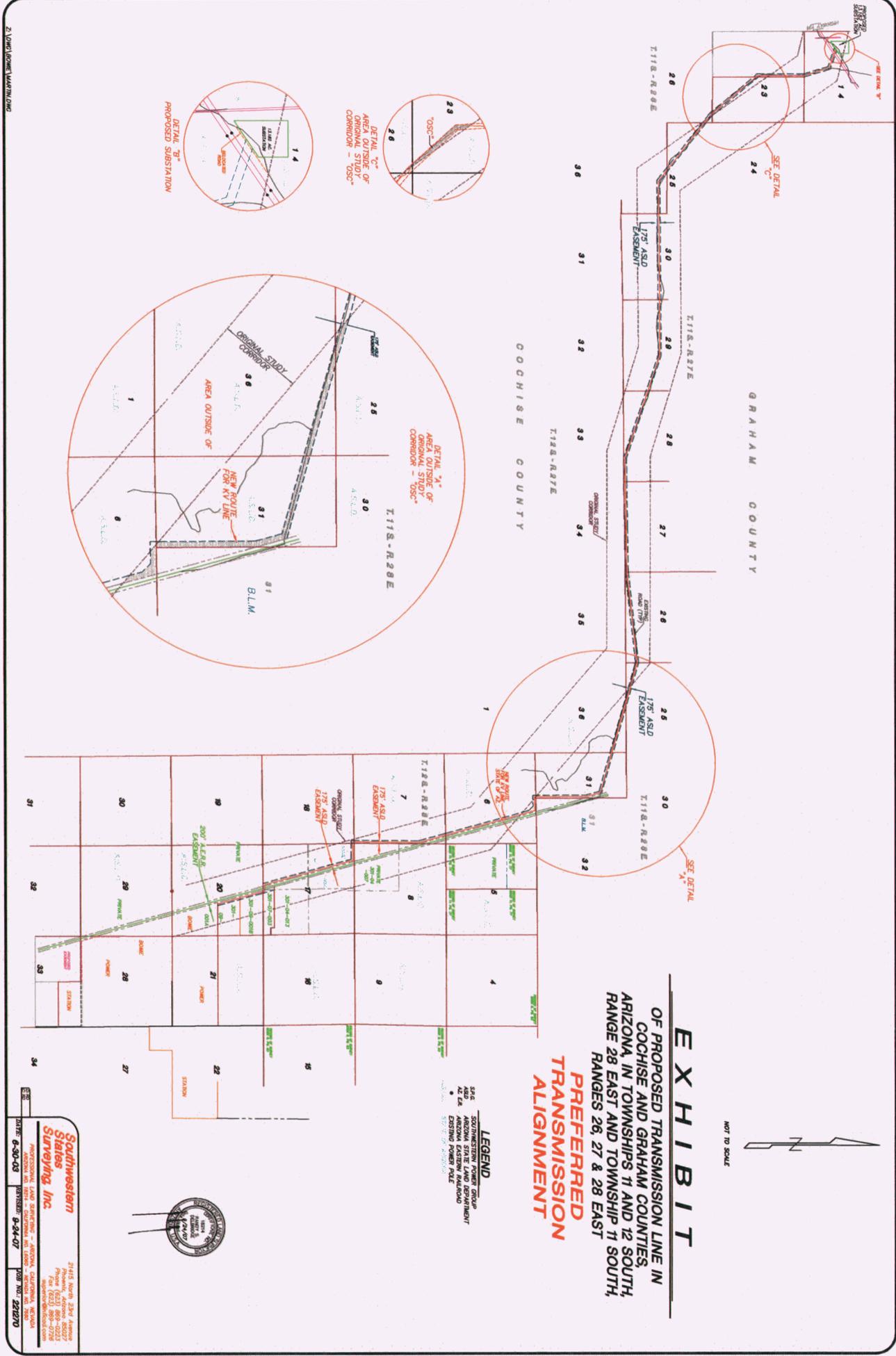
Appendices (2)

Cc: File

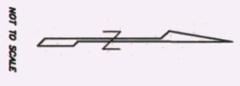
Stephen M. Olea, Utilities Division, Arizona Corporation Commission  
Janice Alward, Esq., Legal Division, Arizona Corporation Commission  
Kevin Torrey, Esq., Legal Division, Arizona Corporation Commission  
David Getts, SouthWestern Power Group  
Lawrence V. Robertson, Jr., Esq., Munger & Chadwick, P.A

# **Appendix “A”**

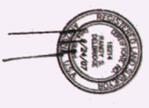
**345 kV Transmission Line Alignment  
Interconnecting Bowie Power Station  
to Willow Substation**



**EXHIBIT**  
**OF PROPOSED TRANSMISSION LINE IN**  
**COCHISE AND GRAHAM COUNTIES,**  
**ARIZONA, IN TOWNSHIPS T1 AND T2 SOUTH,**  
**RANGE 28 EAST AND TOWNSHIP T1 SOUTH,**  
**RANGES 26, 27 & 28 EAST**  
**PREFERRED**  
**TRANSMISSION**  
**ALIGNMENT**



**LEGEND**  
 SAG SOUTHWESTERN POWER GROUP  
 175' ASD EASEMENT  
 200' LEAS EASEMENT  
 175' ASD EASEMENT  
 EXISTING POWER POLE



**Southwestern**  
**States**  
**Surveying Inc.**  
 2715 North 23rd Avenue  
 Phoenix, Arizona 85027  
 Phone: (602) 998-3755  
 Fax: (602) 998-3756  
 www.southwesternsurveying.com  
 PROFESSIONAL LAND SURVEYING - ARIZONA - LICENSE NO. 227870  
 DATE: 8-30-03 REVISED: 9-24-07 JOB NO: 227870

# **Appendix “B”**

**Bowie Power Station  
A.R.S. § 40-360.02 (C) Information Requirements**

## Appendix B

### Information Requirements Pursuant to A.R.S. § 40-360.02 (C)

#### **40-360.02 (C) (1).**

***The size and proposed route of any transmission lines or location of each plant proposed to be constructed.***

The location of the power plant as described in the Application and Record of Docket Number L-00000BB-01-0118 (the "Bowie Docket") remains unchanged.

The transmission interconnection of the power plant at Bowie with the underlying grid remains unchanged from that described in the Bowie Docket: an approximately 15-mile, double-circuit 345 kV transmission line from the point of interconnection on the existing Greenlee-Winchester-Vail 345 kV line, that is owned and operated by Tucson Electric Power Company, which is known as the Willow Substation, and thence to the Bowie Plant Switchyard.

Bowie received approval of the Commission for an amendment to Decision No. 64626 that adjusted the alignment of Bowie's interconnecting double-circuit 345 kV transmission line. This amendment brought the project's transmission line placement into compliance with the Arizona State Land Department's requirements. The nature of this amendment is set forth in Decision No. 70588, dated November 6, 2008. Appendix "A" of this Ten Year filing, is a map depicting the approved 345 kV transmission line alignment documented in Decision No. 70588.

#### **40-360.02 (C) (2).**

***The purpose to be served by each proposed transmission line or plant.***

The purpose to be served by the proposed transmission line and the power plant remains unchanged from that described in the Bowie Docket.

#### **40-360.02 (C) (3).**

***The estimated date by which each transmission line or plant will be in operation.***

All permits necessary to begin construction of Bowie have been obtained. The current estimated operation date for the interconnecting transmission line is late 2013.

Current planning anticipates operation of Bowie as follows:

- a. Initial energization of all 345 kV interconnection facilities by December 31, 2013; and,
- b. Commercial operation of the initial 500 MW (nominal) power block by June 1, 2014.

**40-360.02 (C) (4).**

*The average and maximum power output measured in megawatts of each plant to be installed.*

The average and maximum power output measured in megawatts of the Bowie Power Station that was described in the Bowie Docket remains unchanged.

**40-360.02 (C) (5).**

*The expected capacity factor for each proposed plant.*

The expected capacity factor for Bowie Power Station that was described in the Bowie Docket remains unchanged.

**40-360.02 (C) (6).**

*The type of fuel to be used for each proposed plant.*

The type of fuel to be used for the Bowie Power Station that was described in the Bowie Docket remains unchanged.

**40-360.02 (C) (7).**

*The plans for any new facilities shall include a power flow and stability analysis report showing the effect on the current Arizona electric transmission system. Transmission owners shall provide the technical reports, analysis or basis for projects that are included for serving customer load growth in their service territories.*

On May 13, 2008 a *Generation Interconnection Study* (Study) report was prepared by PDS Consulting, PLC on the behalf of Tucson Electric Power (TEP). The Study was performed using approved Western Electricity Coordination Council 2010 heavy summer and 2010 light autumn data bases to determine the impact of Bowie on TEP and the interconnected transmission system. Studies performed included power flow, transient stability and short circuit analyses. The Study has been previously filed with the Commission under this docket, and remains current and unchanged.