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AZ CORP COMMISSION
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March 13, 2002

Arizona Corporation Commission
DOCKETED

MAR 18 2002

Mr. Greg Wallace
Assistant Director
Arizona Department of Water Resources
500 North Third Street
Phoenix, Arizona 85004

DOCKETED BY	<i>nae</i>
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Re: Water Level Measuring Program for
Proposed Bowie Power Station in
Satisfaction of Amended Order

Dear Mr. Wallace:

On March 6, 2002, the Arizona Corporation Commission (ACC) modified and amended the Certificate of Environmental Compatibility (CEC) granted by the Arizona Power Plant and Transmission Line Siting Committee on January 3, 2002 for the proposed Bowie Power Station (Case No. 118, Bowie Power), with the addition of a condition that a "groundwater monitoring program" be implemented. In your letter of March 4, 2002 to SouthWestern Power Group II, LLC (SWPG), you indicated that the Arizona Department of Water Resources (ADWR) considers a "groundwater monitoring program" to be equivalent to a "water level measuring program". As a consequence, ADWR would anticipate Bowie Power to jointly develop and implement a program of periodic water level measurements from specific wells, with details of the program to be discussed with Mr. Dale Mason of ADWR.

On March 8, 2002, representatives from Bowie Power and URS Corporation (URS) met with Mr. Mason to discuss the details of the water level measuring program. The purpose of this letter is to document our understanding of the program based on the results of that meeting.

GENERAL APPROACH

The ADWR Hydrology Division maintains a number of "index wells" throughout the San Simon Valley sub-basin that are used for annual water level measurements. Several of the index wells are located in the vicinity of the Bowie Power property and south of the town of Bowie. The ground subsidence and earth fissure monitoring program for the Bowie Power Station requires that water levels be measured in nine existing wells: three ADWR index wells located north and east of the Bowie Power property, three wells located on the Bowie Power property, and three wells located south of the property. For the three index wells, Bowie Power will request the water level measurements collected by ADWR and, if available, will include the data in an annual report. For the other six wells, Bowie Power will be responsible for both collecting and reporting the water level measurements.

In the March 8, 2002 meeting, Mr. Mason noted that there are two index wells located on property owned by Pistachio Pass Irrigation District (Pistachio Pass), and that the wells are ideally situated for water level monitoring. Mr. Mason recommended that the two index wells located on that property be added to the water level measuring program already established for the ground subsidence and earth fissure monitoring program. This would provide all concerned with an opportunity to observe actual water levels at these locations throughout the program. As with the other three index wells, Bowie Power will request the water level measurements collected by ADWR from the Pistachio Pass wells and, if available, will include the data in the annual report.

PROGRAM SUMMARY

With the addition of the two wells owned by the Pistachio Pass Irrigation District, the water level measuring program for the Bowie Power Station would potentially consist of eleven wells, as follows:

- **Three On-Site Irrigation Wells.** Bowie Power will measure water levels annually in three on-site irrigation wells (D-12-28 20DBD1, D-12-28 22CDC, and D-12-28 33ABC1). As required by the ground subsidence and earth fissure monitoring program, one of the three wells will be equipped with an electronic pressure transducer to provide continuous water level measurements.
- **Five Off-Site ADWR Index Wells.** Three of the wells (D-12-28 15BCB, D-12-28 17DDD, and D-12-28 25DCC) are located north and east of the Bowie Power property; the other two wells (D-13-28 13BCD and D-13-28 22BCC) are located on property owned by the Pistachio Pass. For the five index wells, Bowie Power will obtain the annual measurements from ADWR, if available, and include the data in the annual report.
- **Three Off-Site Non-Index Wells.** Bowie Power will measure water levels annually in three off-site wells (D-12-28 32DCC1, D-13-28 4CCC1, and D-13-28 11DBC) that are not measured annually by ADWR. The use of the three wells is contingent upon the granting of access by the well owners.



The program outlined above is the applicant's understanding of the "groundwater monitoring program" that was agreed upon with ADWR on March 8, 2002. Should this letter accurately reflect your understanding of the program, please acknowledge below and return two copies to me for our files.

If you have questions, please feel free to call Dr. Gary Crane or me at (602) 808-2004.

Arizona Department of Water Resources

March 12, 2002

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Sincerely,

Tom Wray / exc

Tom Wray
General Manager

Acknowledged and Accepted

Name: _____

Title _____

Date _____

cc: Gary Crane (SWPG)
Jeff Schroeter (Genovation Group)
Dale Mason (ADWR)
Dave Carr (URS)
Lawrence Robertson (Munger and Chadwick, P.L.)
Laurie Woodall (Chairman, Line Siting Committee)
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