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BEFORE THE ARIZONA CORPORATION COMMISSION

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9 IN THE MATTER OF THE GENERIC  
10 PROCEEDINGS CONCERNING ELECTRIC  
11 RESTRUCTURING ISSUES

Docket No. E-00000A-02-0051

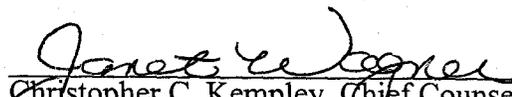
12 IN THE MATTER OF THE GENERIC  
13 PROCEEDING CONCERNING THE ARIZONA  
14 INDEPENDENT SCHEDULING  
ADMINISTRATOR

Docket No. E-00000A-01-0630

**NOTICE OF FILING  
DIRECT TESTIMONY**

15  
16 Staff hereby provides notice of filing of the Direct Testimony of Barbara Keene in this  
17 docket.

18 RESPECTFULLY SUBMITTED this 30th day of September, 2005.

21   
 22 Christopher C. Kempley, Chief Counsel  
 Janet F. Wagner, Attorney  
 Arizona Corporation Commission  
 1200 West Washington  
 Phoenix, Arizona 85007  
 (602) 542-3402

1 Original and 19 copies of the foregoing  
2 filed this 30th day of September , 2005,  
3 with:

3 Docket Control  
4 Arizona Corporation Commission  
5 1200 West Washington  
6 Phoenix, AZ 85007

6 Copy of the foregoing mailed this 30th  
7 day of September, 2005, to:

8 MICHAEL A CURTIS  
9 WILLIAM P SULLIVAN  
10 CURTIS, GOODWIN, SULLIVAN, UDALL &  
11 SCHWAB, PLC  
12 2712 N 7TH STREET  
13 PHOENIX ARIZONA 85006-1090

11 SCOTT WAKEFIELD  
12 RUCO  
13 1110 W WASHINGTON, SUITE 220  
14 PHOENIX ARIZONA 85007

14 WALTER W MEEK  
15 ARIZONA UTILITY INVESTOR ASSOCIATION  
16 2100 N CENTRAL AVE SUITE 210  
17 PHOENIX ARIZONA 85004

16 A B BAARDSON  
17 NORDIC POWER  
18 6463 N DESERT BREEZE CT  
19 TUCSON ARIZONA 85750-0846

19 JANA BRANDT  
20 KELLY BARR  
21 SALT RIVER PROJECT  
22 P O BOX 52025 PAB221  
23 PHOENIX ARIZONA 85072-2025

22 C WEBB CROCKETT  
23 JAY L. SHAPIRO  
24 PATRICK J. BLACK  
25 FENNEMORE CRAIG  
26 3003 N CENTRAL AVE SUITE 2600  
27 PHOENIX ARIZONA 85012-2913

25 LAWRENCE V ROBERTSON JR  
26 MUNGER CHADWICK PLC  
27 333 N WILMOT SUITE 300  
28 TUCSON ARIZONA 85711-2634

ROGER K FERLAND  
QUARLES & BRADY STREICH LANG LLP  
RENAISSANCE ONE  
TWO N CENTRAL AVENUE  
PHOENIX ARIZONA 85004-2391

JANA VAN NESS  
APS  
MAIL STATION 9908  
P O BOX 53999  
PHOENIX ARIZONA 85072-3999

MICHAL A TRENTEL  
PATRICK W BURNETT  
PANDA ENERGY INT'L INC  
4100 SPRING VALLEY SUITE 1010  
DALLAS TEXAS 75244

RUSSELL JONES  
D. MICHAEL MANDIG  
WATERFALL ECONOMIDIS CALDWELL HANSHAW  
& VILLAMANA, P.C.  
5210 E WILLIAMS CIRCLE STE 800  
TUCSON ARIZONA 85711

STEVEN C GROSS  
PORTER SIMON  
40200 TRUCKEE AIRPORT RD  
TRUCKEE CALIFORNIA 96161

MICHAEL PATTEN  
ROSHKA DEWULF & PATTEN  
400 E VAN BUREN SUITE 800  
PHOENIX ARIZONA 85004

WILLIAM D. BAKER  
ELLIS & BAKER, PC  
7310 N 16TH STREET SUITE 320  
PHOENIX ARIZONA 85020

1 MICHAEL GRANT  
GALLAGHER & KENNEDY  
2 2575 E CAMELBACK RD  
PHOENIX ARIZONA 85016-9225  
3  
4 CHRISTOPHER HITCHCOCK  
LAW OFFICES OF CHRISTOPHER HITCHCOCK  
P O BOX AT  
5 BISBEE ARIZONA 85603-0115  
6  
7 PETER VAN HAREN  
JESSE W SEARS  
CITY OF PHOENIX  
200 W WASHINGTON STREET SUITE 1300  
8 PHOENIX ARIZONA 85003-1611  
9  
10 LAURIE WOODALL  
ENVIRONMENTAL ENFORCEMENT SECTION  
OFFICE OF THE ATTORNEY GENERAL  
15 S 15TH AVENUE  
PHOENIX ARIZONA 85007  
11  
12 DONNA M. BRONSKI  
CITY OF SCOTTSDALE  
CITY ATTORNEY'S OFFICE  
13 3939 N. DRINKWATER BLVD.  
SCOTTSDALE ARIZONA 85251  
14  
15 THEODORE E ROBERTS  
SEMPRA ENERGY RESOURCES  
101 ASH STREET HQ 12-B  
16 SAN DIEGO CALIFORNIA 92101-3017  
17  
18 ROBERT S. LYNCH  
340 E PALM LANE, STE. 140  
PHOENIX AZ 85004-4603  
19  
20 DAVID COUTURE  
TUCSON ELECTRIC POWER CO.  
ONE SOUTH CHURCH STREET  
TUCSON AZ 85701  
21  
22 THOMAS MUMAW  
KARILEE RAMALEY  
PINNACLE WEST CAPITAL CORPORATION  
400 N. 5TH STREET, STE. 8695  
23 PHOENIX AZ 85004  
24  
25 STACY AGUAYO  
APS ENERGY SERVICES  
400 E. VAN BUREN STREET, STE. 750  
26 PHOENIX AZ 85004  
27

BARRY GOLDWATER, JR.  
3104 E CAMELBACK RD., SUITE 274  
PHOENIX ARIZONA 85016  
  
DEBORAH R. SCOTT  
KIMBERLY A. GROUSE  
SNELL & WILMER  
ONE ARIZONA CENTER  
400 E VAN BUREN STREET  
PHOENIX ARIZONA 85004-2202  
  
DENNIS L. DELANEY  
K.R. SALINE & ASSOCIATES  
160 N PASADENA, SUITE 101  
MESA ARIZONA 85201-6764  
  
KEVIN C. HIGGINS  
ENERGY STRATEGIES LLC  
30 MARKET STREET SUITE 200  
SALT LAKE CITY UTAH 84101  
  
JOHN WALLACE  
GRAND CANYON STATE ELECTRIC CO-OP ASS'N.  
120 N 44TH STREET SUITE 100  
PHOENIX ARIZONA 85034-1822  
  
JAY I. MOYES  
MOYES STOREY  
1850 N CENTRAL AVENUE, #1100  
PHOENIX AZ 85004-4541  
  
PATRICK J. SANDERSON  
ARIZONA INDEPENDENT SCHEDULING  
ADMINISTRATOR ASSOC.  
4397 W. BETHANY HOME ROAD, #1025  
PHOENIX AZ 85301  
  
JERRY COFFEY  
ERIC BRONNER  
PO BOX 111  
TAMPA FL 33602  
  
KEN BAGLEY  
RW BECK  
14635 N. KIERLAND BLVD., STE. 130  
SCOTTSDALE ARIZONA 85256-2769  
  
STEVE MENDOZA  
ARIZONA POWER AUTHORITY  
1810 W. ADAMS  
PHOENIX AZ 85007-2697

28 Nancy Roe

**BEFORE THE ARIZONA CORPORATION COMMISSION**

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

IN THE MATTER OF THE GENERIC )	DOCKET NO. E-00000A-02-0051
PROCEEDING CONCERNING ELECTRIC )	
<u>RESTRUCTURING ISSUES.</u> )	
IN THE MATTER OF THE GENERIC )	DOCKET NO. E-00000A-01-0630
PROCEEDING CONCERNING THE ARIZONA )	
INDEPENDENT SCHEDULING )	
<u>ADMINISTRATOR.</u> )	

DIRECT  
TESTIMONY  
OF  
BARBARA KEENE  
PUBLIC UTILITIES ANALYST MANAGER  
UTILITIES DIVISION  
ARIZONA CORPORATION COMMISSION

SEPTEMBER 30, 2005

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**APPENDICES**

1. Resume of Barbara Keene

**EXECUTIVE SUMMARY**  
**GENERIC PROCEEDING CONCERNING ELECTRIC RESTRUCTURING ISSUES**  
**AND**  
**GENERIC PROCEEDING CONCERNING THE ARIZONA INDEPENDENT**  
**SCHEDULING ADMINISTRATOR**  
**DOCKET NOS. E-00000A-02-0051 AND E-00000A-01-0630**

Staff recommends that APS' revised Code of Conduct be adopted, except for modifications in the following areas: the designation of Pinnacle West Capital Corporation as a Competitive Electric Affiliate, Shared Services, Confidential Customer Information, Transfer of Goods and Services, Reporting Requirements, and Competitive Procurement. Staff recommends that Pinnacle West be designated as a Competitive Electric Affiliate, that a definition for Operating Employees be added to the Code of Conduct, that Operating Employees be excluded from providing Shared Services, that each employee that provides shared services be required to sign an affidavit stating that he or she will not act as a conduit for improperly sharing information, that the Code of Conduct be modified to state that the same lawyer cannot represent both sides in an arm's length transaction, and that Confidential Customer Information not be provided to others without the customer's prior written authorization.

1 **INTRODUCTION**

2 **Q. Please state your name and business address.**

3 A. My name is Barbara Keene. My business address is 1200 West Washington Street,  
4 Phoenix, Arizona 85007.

5  
6 **Q. By whom are you employed and in what capacity?**

7 A. I am employed by the Utilities Division of the Arizona Corporation Commission as a  
8 Public Utilities Analyst Manager. My duties include supervising the energy portion of the  
9 Telecommunications and Energy Section, a copy of my résumé is provided in the  
10 Appendix.

11  
12 **Q. As part of your employment responsibilities, were you assigned to review matters  
13 contained in Docket Nos. E-00000A-02-0051 and E-00000A-01-0630?**

14 A. Yes.

15  
16 **Q. What is the subject matter of your direct testimony?**

17 A. My direct testimony is concerned with the Code of Conduct for Arizona Public Service  
18 Company ("APS").

19  
20 **Q. Have you previously prepared another document for this proceeding concerning  
21 Code of Conduct?**

22 A. Yes. On August 13, 2003, I filed a Staff Report in these dockets that evaluated the Code  
23 of Conduct filed by APS in November 2002 and incorporated the Standards of Conduct  
24 resulting from the Track B process into the APS Code of Conduct. The Staff Report  
25 included a red-lined version of the Code of Conduct with Staff's modifications.

26

1 **Q. What is the purpose of your direct testimony?**

2 A. The purpose of my direct testimony is to provide Staff's response to the direct testimony  
3 filed by Jeffrey B. Guldner of APS on July 29, 2005. Mr. Guldner included in his  
4 testimony a revised Code of Conduct.

5  
6 **Q. What is Staff's recommendation regarding APS' revised Code of Conduct?**

7 A. Staff recommends that APS' revised Code of Conduct be adopted, except for  
8 modifications in the following areas: the Definitions, Shared Services, Confidential  
9 Customer Information Transfer of Goods and Services, Reporting Requirements, and  
10 Competitive Procurement.

11  
12 **Q. What kind of analysis did you perform in this matter?**

13 A. I reviewed the current Code of Conduct, the 2002 APS-modified Code of Conduct, the  
14 2003 Staff Report, Mr. Guldner's direct testimony and revised Code of Conduct, and  
15 documents from the Federal Energy Regulatory Commission ("ERC") regarding the final  
16 adoption of its Standards of Conduct (Order No. 2004).

17  
18 **Q. With the modifications that you have proposed, does Staff believe that APS'  
19 proposed Code of Conduct is reasonable and appropriate?**

20 A. Yes. The APS-proposed Code of Conduct, with Staff's modifications, provides safeguards  
21 necessary to protect the public interest. The proposed Code of Conduct would help to  
22 promote a level playing field in both the retail and wholesale competitive markets by  
23 maintaining a separation between the utility and its competitive affiliates and by  
24 preventing cross-subsidization between the utility and its competitive affiliates. The  
25 current Code of Conduct addresses retail electric affiliates, but not affiliates in the  
26 wholesale market.

27

1 The APS-proposed Code of Conduct improves upon the Code of Conduct previously  
2 recommended by Staff in its 2003 Staff Report by being reorganized and simplified. All  
3 of the items required by the Track A and Track B orders are still included, but  
4 nonessential portions were eliminated. The new version should be easier for utility and  
5 affiliate employees to learn and follow, while providing necessary protections.

6  
7 **DEFINITIONS**

8 **Q. Does Staff have any recommendations regarding the definitions contained in APS'**  
9 **proposed Code of Conduct?**

10 A. Yes, Staff has recommendations regarding the following definitions: Competitive Electric  
11 Affiliate, Competitive Retail Services, and Noncompetitive Services.

12  
13 **Designation of Pinnacle West Capital Corporation ("Pinnacle West") as Competitive**

14 **Electric Affiliate**

15 **Q. How does the definition of "Competitive Electric Affiliate" apply to Pinnacle West?**

16 A. The revised Code of Conduct defines Competitive Electric Affiliate as "those affiliates of  
17 APS engaged in either Competitive Retail Services or Competitive Wholesale Services."  
18 The term "Competitive Wholesale Services" is defined as "the provision of energy  
19 products or services to the wholesale electric market." Pinnacle West provides energy to  
20 wholesale customers through contracts, such as its wholesale power contract with UNS  
21 Electric. Pinnacle West clearly falls within the definition of a "Competitive Electric  
22 Affiliate."

23  
24 **Q. What is Staff's concern with APS' interpretation of the definition of "Competitive**  
25 **Electric Affiliate" in regard to Pinnacle West?**

1 A. According to Mr. Guldner, although Pinnacle West has several wholesale contracts not  
2 used in providing service to APS customers, Pinnacle West would not be considered to be  
3 a Competitive Electric Affiliate because it does not actively market those contracts.

4  
5 Staff disagrees with this reasoning. Pinnacle West provides energy to wholesale  
6 customers through contracts, such as its wholesale power contract with UNS Electric.  
7 Pinnacle West has the authority to enter into new contracts or renegotiate existing  
8 contracts. The purpose of the contracts is to sell energy. It does not matter whether or not  
9 Pinnacle West is trying to sell the contracts to others. Pinnacle West provides  
10 Competitive Wholesale Services and should, therefore, be designated as a Competitive  
11 Electric Affiliate. Staff believes that Pinnacle West currently falls within APS' proposed  
12 definition of "Competitive Electric Affiliate"; however, since APS apparently disagrees  
13 with this conclusion, the Commission should specifically designate Pinnacle West as a  
14 "Competitive Electric Affiliate" in order to clarify this issue.

15  
16 **Q. Are there issues created by including Pinnacle West as a "Competitive Electric**  
17 **Affiliate"?**

18 A. Staff has discussed this matter with APS, and Staff believes that APS will contend that  
19 including Pinnacle West as a "Competitive Electric Affiliate" will create difficulties.  
20 Specifically, APS may claim that, under its proposed Code of Conduct as currently  
21 drafted, it will be unable to pay dividends to Pinnacle West if Pinnacle West falls within  
22 the definition of "Competitive Electric Affiliate." Staff is not convinced that this  
23 conclusion is correct or that, even if it is, the proposed Code of Conduct cannot be  
24 modified to appropriately address this matter. Staff anticipates that APS will respond to  
25 this issue in its testimony, and Staff is willing to evaluate that response and to reconsider  
26 its position, if appropriate.

1 **Definitions of “Competitive Retail Services” and “Noncompetitive Services”**

2 **Q. What are Staff’s concerns regarding these definitions?**

3 A. Both of these definitions refer to determinations made in Commission rules. To illustrate,  
4 APS’ proposed Code of Conduct defines “Noncompetitive Services” as “unbundled  
5 distribution service, Standard Offer Service, and other services that have been determined  
6 to be noncompetitive services in a Commission Rule.” Staff believes that defining these  
7 concepts by referring to some future “Commission Rule” is not helpful. It is possible that  
8 the Commission may make a determination about APS’ noncompetitive services in a  
9 proceeding other than a rulemaking, such as a rate case or a complaint. Pursuant to the  
10 terms of APS’ proposed definitions, only determinations made in a Commission  
11 rulemaking proceeding would be considered. Staff believes that this result may not give  
12 appropriate consideration to all relevant Commission determinations and therefore  
13 recommends deleting the phrase “in a Commission Rule” and replacing it with the phrase  
14 “by the Commission.”

15  
16 **Q. Does Staff have other comments regarding these definitions?**

17 A. Yes. Staff notes that APS Witness Guldner has testified that APS has “attempted to  
18 broaden” some of the terms in the proposed Code of Conduct “to allow a future  
19 Commission rulemaking proceeding to revise the Electric Competition Rules without  
20 requiring significant changes to the Proposed Code of Conduct.” Staff does not want to  
21 leave APS, the Commission, or the public with the impression that the Code of Conduct is  
22 a static document that will not eventually require re-evaluation and review as time passes  
23 and circumstances change. The history of APS’ existing Code of Conduct illustrates this  
24 phenomenon. APS’ existing Code of Conduct, which was adopted in 2000 pursuant to the  
25 provisions of A.A.C. R14-2-1616, focused upon APS’ conduct toward its competitive  
26 retail electric affiliate. Only two years later, Staff testified in the Track A proceeding that

1 APS' Code of Conduct should be expanded to address APS' conduct toward its  
2 competitive wholesale electric affiliate.

3  
4 APS' stated desire to have a Code of Conduct that will not require review and revision  
5 may prove to be unreasonable as time passes and circumstances change. Staff cannot at  
6 this time predict when such future changes may be necessary, but Staff is unwilling to  
7 leave the impression that APS' effort to "broaden terms" is a reasonable substitute for  
8 subsequent review.

9  
10 **SHARED SERVICES**

11 **Q. What are Shared Services?**

12 A. Shared Services are support services provided to various Pinnacle West affiliates by  
13 Pinnacle West itself or by any of its affiliates. For example, shared support staff may  
14 provide legal, accounting, or data processing services to various affiliates, but support  
15 staff do not participate in operating activities and generally would not be in a position to  
16 give an affiliate undue preferences.

17  
18 **Q. Is Staff concerned about any of the types of support services that APS included in its  
19 definition of Shared Services?**

20 A. Yes. Staff is concerned about "risk and insurance management," "energy risk  
21 management," and "law."

22  
23 **Risk Management**

24 **Q. What is Staff's concern about "risk and insurance management" and "energy risk  
25 management"?**

26 A. According to APS, "risk and insurance management" is the Shared Service that handles  
27 corporate policies and claims, and "energy risk management" is a specialized risk-

1 management function that ensures that overall portfolio structure and exposure to energy  
2 counterparties is appropriate on an enterprise basis. There are two issues that relate to  
3 both of these areas of risk management: (1) whether they should be shared functions, and  
4 (2) if so, how to handle the energy, customer, and market information received by risk  
5 management employees.

6  
7 **Q. Has Staff been concerned about risk management being a Shared Service?**

8 A. Yes. In the 2003 Staff Report, Staff recommended that risk management and energy risk  
9 management not be considered as Shared Services. The Independent Monitor's report had  
10 identified these two Shared Services as a continuing source of potential conflict during the  
11 competitive procurement process resulting from Track B.

12  
13 **Q. Does Staff continue to hold this position?**

14 A. No. After reviewing documents issued by FERC in its docket on Standards of Conduct,  
15 Staff concluded that it is not unreasonable for Pinnacle West and its subsidiaries to  
16 consider the risks that may result from the interplay between the business activities of  
17 various subsidiaries within the overall Pinnacle West structure. Because there may be a  
18 need for comprehensive oversight of risk management, it may be a Shared Service.  
19 However, Staff is concerned that (1) shared risk management employees not be operating  
20 employees of either APS or its Competitive Electric Affiliates and (2) that shared risk  
21 management employees not be a conduit for improperly sharing information.

22  
23 **Q. Why are these limitations on Shared Services necessary?**

24 A. Limitations on shared services are necessary to prevent affiliates from receiving undue  
25 preferential treatment.

1 **Q. Have other regulatory agencies addressed this issue?**

2 A. Yes. FERC addressed this issue in its docket on Standards of Conduct. After reviewing  
3 the comments filed by 46 entities on this topic, FERC concluded that transmission  
4 providers should be allowed to realize the benefits of cost savings of sharing employees  
5 when those shared employees are not operating employees and do not improperly provide  
6 information between affiliates.

7  
8 **Q. What are "operating employees?"**

9 A. FERC, in its Order No. 497-E regarding gas employees, has defined Operating Employees  
10 as, in part, those that are engaged in the day-to-day duties and responsibility for planning,  
11 directing, organizing, or carrying out gas-related operations, including gas transportation,  
12 gas sales or gas marketing activities.

13  
14 FERC's Order No. 2004 defines "Transmission Function employee" as "an employee,  
15 contractor, consultant or agent of a Transmission Provider who conducts transmission  
16 system operations or reliability functions, including, but not limited to, those who are  
17 engaged in day-to-day duties and responsibilities for planning, directing, organizing or  
18 carrying out transmission-related operations."

19  
20 Staff recommends that a similar definition for Operating Employees, appropriate for  
21 electric employees, be added to the revised Code of Conduct, and that the definition for  
22 Shared Services indicate that Operating Employees are excluded from providing Shared  
23 Services.

24  
25 Staff suggests the following definition for "Operating Employees": "employees,  
26 contractors, consultants, or agents who conduct electrical system operations or reliability  
27 functions, including, those who are engaged in day-to-day duties and responsibilities for

1 planning, directing, organizing, or carrying out energy-related operations. Operating  
2 Employees are excluded from providing Shared Services."

3  
4 **Q. What assurance could there be that shared risk management employees would not be**  
5 **a conduit for improperly sharing information?**

6 A. Each employee who provides Shared Services should be trained regarding the Code of  
7 Conduct and should be required to sign an affidavit stating that he or she will not be a  
8 conduit for improperly sharing information. Part Two, Section IV.G. of the revised Code  
9 of Conduct should be modified to include a requirement for such signed affidavits.

10  
11 **Law**

12 **Q. Has Staff been concerned about law being a Shared Service?**

13 A. Yes. In the 2003 Staff Report, Staff recommended that law not be considered as a Shared  
14 Service. The Independent Monitor's report had identified this Shared Service as a  
15 continuing source of potential conflict during the competitive procurement process  
16 resulting from Track B.

17  
18 **Q. Does Staff continue to hold this position?**

19 A. No. After reviewing FERC's comments in its Standards of Conduct proceeding, Staff  
20 concluded that it is not unreasonable for law to be considered a Shared Service. FERC's  
21 rationale is that lawyers have a professional responsibility to maintain the confidentiality  
22 of information, and Staff finds the rationale to be reasonable.

23  
24 **Q. What is Staff's remaining concern about law being a Shared Service?**

25 A. Staff is concerned that the same lawyer could represent both APS and one of its  
26 Competitive Electric Affiliates in an arm's length transaction involving both entities. Part  
27 Two, Section V.A. of the revised Code of Conduct should be modified to include a

1 statement that the same lawyer cannot represent both sides in an arm's length transaction  
2 between APS and one of its Competitive Electric Affiliates.

3  
4 **CONFIDENTIAL CUSTOMER INFORMATION**

5 **Q. What is your concern about Confidential Customer Information?**

6 A. Part Two, Section III.A. and B states that Confidential Customer Information would not  
7 be provided to others without the customer's prior authorization. Staff believes that the  
8 customer's authorization should be written because it provides a record that authorization  
9 was actually granted. A printed version of an electronic authorization would satisfy this  
10 requirement. Staff notes that the existing Code requires written authorization. Therefore,  
11 the proposed Code of Conduct should be modified to include the word "written" before  
12 "authorization."

13  
14 **Q. Are there any other concerns?**

15 A. Although it appears to be a typo, Part Two, Section III.B. and C. contain the term  
16 "Customer Confidential Information." The term should be "Confidential Customer  
17 Information" to match the term in the definition section of the Code of Conduct.

18  
19 **TRANSFER OF GOODS AND SERVICES**

20 **Q. Does Staff have any comments regarding the section of APS' proposed Code of**  
21 **Conduct that addresses transfers of goods and services?**

22 A. Yes. Paragraph A of that section states that all transactions between APS and its  
23 Competitive Electric Affiliates shall be arm's length transactions, "except as otherwise  
24 provided below." Staff believes that the subsequent paragraphs do not clearly describe the  
25 transactions that will not be at arm's length. For example, Paragraph D refers to "services  
26 provided by APS or its Competitive Electric Affiliate that are subject to a filed tariff." A  
27 purchased power contract between APS and an affiliate that provides competitive

1 wholesale services may be subject to a "tariff," such as a FERC determination allowing  
2 market-based rates, yet that contract may still be a transaction that requires substantial  
3 arm's length negotiations between the parties. Staff believes that this section could be  
4 improved by specifically listing the types of transactions that may not be at arm's length.  
5

## 6 **REPORTING REQUIREMENTS**

7 **Q. Does Staff have any comments regarding the reporting requirements contained in**  
8 **APS' proposed Code of Conduct?**

9 A. Yes. Staff recommends that these reports be available to the public. Therefore, the words  
10 "and shall be publicly available" should be added to Part Two, Section VIII, after "40-  
11 204:".

## 12 **COMPETITIVE PROCUREMENT**

13 **Q. Does Staff have any changes to Part Four of APS' proposed Code of Conduct, which**  
14 **deals with competitive procurement?**

15 A. Yes, Staff has one change in this part of APS' proposed Code of Conduct. In Part Four,  
16 Section III.B, APS' proposal provides that "[i]f a Competitive Electric Affiliate  
17 participates as a bidder in a Competitive Procurement request for proposals or auction  
18 process, an independent monitor will oversee the process." Staff suggests inserting the  
19 phrase "selected by Staff" after the reference to "an independent monitor." Staff believes  
20 that this change is necessary to ensure that the monitor will be truly objective.  
21  
22  
23

## 24 **SUMMARY OF STAFF RECOMMENDATIONS**

25 **Q. Please summarize Staff's recommendations.**

26 A. 1. Staff recommends that APS' revised Code of Conduct be adopted, except for  
27 modifications in the following areas: Definitions, Shared Services, Confidential

- 1 Customer Information, Transfer of Goods and Services, Reporting Requirements,  
2 and Competitive Procurement.
- 3 2. Staff recommends that Pinnacle West be designated as a Competitive Electric  
4 Affiliate. Staff also recommends that the Commission delete the phrase “in a  
5 Commission Rule” from the definitions of “Competitive Retail Services” and  
6 “Noncompetitive Retail Services” and replace it with the phrase “by the  
7 Commission.”
- 8 3. Staff recommends that a definition for Operating Employees be added to the Code  
9 of Conduct.
- 10 4. Staff recommends that Operating Employees be excluded from providing Shared  
11 Services.
- 12 5. Staff recommends that each shared support employee should be required to sign an  
13 affidavit stating that he or she will not be a conduit for improperly sharing  
14 information.
- 15 6. Staff recommends that the Code of Conduct be modified to state that the same  
16 lawyer cannot represent both APS and a Competitive Electric Affiliate in an arm’s  
17 length transaction.
- 18 7. Staff recommends that Confidential Customer Information not be provided to  
19 others without the customer’s prior written authorization.
- 20 8. Staff recommends that the Transfer of Goods and Services section be improved by  
21 specifically listing the types of transactions that may not be at arm's length.
- 22 9. Staff recommends that reports be publicly available.
- 23 10. Staff recommends that the Competitive Procurement section be modified to state  
24 that an independent monitor would be selected by Staff.

25  
26 **Q. Does this conclude your direct testimony?**

27 **A. Yes, it does.**

## RESUME

### BARBARA KEENE

#### Education

B.S. Political Science, Arizona State University (1976)  
M.P.A. Public Administration, Arizona State University (1982)  
A.A. Economics, Glendale Community College (1993)

#### Additional Training

Management Development Program - State of Arizona, 1986-1987  
UPLAN Training - LCG Consulting, 1989, 1990, 1991  
various seminars, workshops, and conferences on ratemaking, energy efficiency, rate design, computer skills, labor market information, training trainers, and Census products

#### Employment History

**Arizona Corporation Commission, Utilities Division, Phoenix, Arizona: Public Utilities Analyst Manager (May 2005-present).** Supervise the energy portion of the Telecommunications and Energy Section. Conduct economic and policy analyses of public utilities. Coordinate working groups of stakeholders on various issues. Prepare Staff recommendations and present testimony on electric resource planning, rate design, special contracts, energy efficiency programs, and other matters. Responsible for maintaining and operating UPLAN, a computer model of electricity supply and production costs.

**Arizona Corporation Commission, Utilities Division, Phoenix, Arizona: Public Utilities Analyst V (October 2001-present), Senior Economist (July 1990-October 2001), Economist II (December 1989-July 1990), Economist I (August 1989-December 1989).** Conduct economic and policy analyses of public utilities. Coordinate working groups of stakeholders on various issues. Prepare Staff recommendations and present testimony on electric resource planning, rate design, special contracts, energy efficiency programs, and other matters. Responsible for maintaining and operating UPLAN, a computer model of electricity supply and production costs.

**Arizona Department of Economic Security, Research Administration, Economic Analysis Unit: Labor Market Information Supervisor (September 1985-August 1989), Research and**

**Statistical Analyst (September 1984-September 1985), Administrative Assistant (September 1983-September 1984).** Supervised professional staff engaged in economic research and analysis. Responsible for occupational employment forecasts, wage surveys, economic development studies, and over 50 publications. Edited the monthly **Arizona Labor Market Information Newsletter**, which was distributed to about 4,000 companies and individuals.

### Testimony

Resource Planning for Electric Utilities (Docket No. U-0000-90-088), Arizona Corporation Commission, 1990; testimony on production costs and system reliability.

Trico Electric Cooperative Rate Case (Docket No. U-1461-91-254), Arizona Corporation Commission, 1992; testimony on demand-side management and time-of-use and interruptible power rates.

Navopache Electric Cooperative Rate Case (Docket No. U-1787-91-280), Arizona Corporation Commission, 1992; testimony on demand-side management and economic development rates.

Arizona Electric Power Cooperative Rate Case (Docket No. U-1773-92-214), Arizona Corporation Commission, 1993; testimony on demand-side management, interruptible power, and rate design.

Tucson Electric Power Company Rate Case (Docket Nos. U-1933-93-006 and U-1933-93-066) Arizona Corporation Commission, 1993; testimony on demand-side management and a cogeneration agreement.

Resource Planning for Electric Utilities (Docket No. U-0000-93-052), Arizona Corporation Commission, 1993; testimony on production costs, system reliability, and demand-side management.

Duncan Valley Electric Cooperative Rate Case (Docket No. E-01703A-98-0431), Arizona Corporation Commission, 1999; testimony on demand-side management and renewable energy.

Tucson Electric Power Company vs. Cyprus Sierrita Corporation, Inc. (Docket No. E-0000I-99-0243), Arizona Corporation Commission, 1999; testimony on analysis of special contracts.

Arizona Public Service Company's Request for Variance (Docket No. E-01345A-01-0822), Arizona Corporation Commission, 2002; testimony on competitive bidding.

Generic Proceeding Concerning Electric Restructuring Issues (Docket No. E-00000A-02-0051), Arizona Corporation Commission, 2002; testimony on affiliate relationships and codes of conduct.

Tucson Electric Power Company's Application for Approval of New Partial Requirements Service Tariffs, Modification of Existing Partial Requirements Service Tariff 101, and Elimination of Qualifying Facility Tariffs (Docket No. E-01933A-02-0345) and Application for Approval of its Stranded Cost Recovery (Docket No. E-01933A-98-0471), Arizona Corporation Commission, 2002, testimony on proposals to eliminate, modify, or introduce tariffs and testimony on the modification of the Market Generation Credit.

Arizona Public Service Company's Application for Approval of Adjustment Mechanisms (Docket No. E-01345A-02-0403), Arizona Corporation Commission, 2003, testimony on the proposed Power Supply Adjustment and the proposed Competition Rules Compliance Charge.

Generic Proceeding Concerning Electric Restructuring Issues, et al (Docket No. E-00000A-02-0051, et al), Arizona Corporation Commission, 2003; Staff Report on Code of Conduct.

Arizona Public Service Company Rate Case (Docket No. E-01345A-03-0437), Arizona Corporation Commission, 2004; testimony on demand-side management, system benefits, renewable energy, the Returning Customer Direct Assignment Charge, and service schedules.

Arizona Electric Power Cooperative Rate Case (Docket No. E-01773A-04-0528), Arizona Corporation Commission, 2005; testimony on a fuel and purchased power cost adjustor, demand-side management, and rate design.

Trico Electric Cooperative Rate Case (Docket No. E-01461A-04-0607), Arizona Corporation Commission, 2005; testimony on the Environmental Portfolio Standard; demand-side management; special charges; and Rules, Regulations, and Line Extension Policies.

### **Publications**

Author of the following articles published in the *Arizona Labor Market Information Newsletter*:

- "1982 Mining Employees - Where are They Now?" - September 1984
- "The Cost of Hiring" and "Arizona's Growing Industries" - January 1985
- "Union Membership - Declining or Shifting?" - December 1985
- "Growing Industries in Arizona" - April 1986
- "Women's Work?" - July 1986
- "1987 SIC Revision" - December 1986
- "Growing and Declining Industries" - June 1987
- "1986 DOT Supplement" and "Consumer Expenditure Survey" - July 1987
- "The Consumer Price Index: Changing With the Times" - August 1987
- "Average Annual Pay" - November 1987
- "Annual Pay in Metropolitan Areas" - January 1988
- "The Growing Temporary Help Industry" - February 1988

"Update on the Consumer Expenditure Survey" - April 1988  
"Employee Leasing" - August 1988  
"Metropolitan Counties Benefit from State's Growing Industries" - November 1988  
"Arizona Network Gives Small Firms Helping Hand" - June 1989

Major contributor to the following books published by the Arizona Department of Economic Security:

*Annual Planning Information* - editions from 1984 to 1989  
*Hispanics in Transition* - 1987

(with David Berry) "Contracting for Power," *Business Economics*, October 1995.

(with Robert Gray) "Customer Selection Issues," *NRRI Quarterly Bulletin*, Spring 1998.

### Reports

(with Task Force) *Report of the Task Force on the Feasibility of Implementing Sliding Scale Hookup Fees*. Arizona Corporation Commission, 1992.

*Customer Repayment of Utility DSM Costs*, Arizona Corporation Commission, 1995.

(with Working Group) *Report of the Participants in Workshops on Customer Selection Issues*," Arizona Corporation Commission, 1997.

"DSM Workshop Progress Report," Arizona Corporation Commission, 2004.

(with Erin Casper) "Staff Report on Demand Side Management Policy," Arizona Corporation Commission, 2005.