

**Via E-mail & USPS**

December 14, 2006

Mr. J. Tyler Carlson  
Regional Manager  
Western Area Power Administration  
Desert Southwest Region  
P. O. Box 6457  
Phoenix, AZ 85005-6457

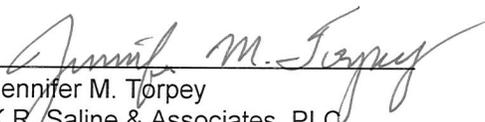
Re: Electrical District Number Five, Pinal County Integrated Resource Plan

Dear Mr. Carlson,

As you know, Western Area Power Administration's ("Western") Integrated Resource Planning Approval Criteria require Western's customers to submit updated Integrated Resource (or Small Customer) Plans to the appropriate Regional Manager every five years after Western's approval of the initial Plan. Enclosed on behalf of Electrical District Number Five, Pinal County ("ED5P"), pursuant to 10 C.F.R. § 905.13(b), is the second five-year update to ED5P's Integrated Resource Plan. This update was approved by ED5P's Board of Directors at a public meeting held on November 28, 2006.

If you have any questions regarding this Integrated Resource Plan, please do not hesitate to contact me.

Sincerely,

  
Jennifer M. Torpey  
K.R. Saline & Associates, PLC

Enclosure

cc: John Li (w/encl.)  
Joe Mulholland (w/encl.)  
Ron McEachern (w/encl.)

# **INTEGRATED RESOURCE PLAN**

**SECOND FIVE-YEAR UPDATE**

**ELECTRICAL DISTRICT NUMBER FIVE  
OF PINAL COUNTY  
AND THE STATE OF ARIZONA**

**November 28, 2006**

# Table of Contents

	<u>Page #</u>
Profile Data	
<u>Board of Directors</u>	3
<u>Contact Persons</u>	3
District Goals and Objectives	5
Competitive Situation	
<u>District Contract Information</u>	5
<u>Regulations Applicable to District</u>	5
<u>Regulations Applicable to District Customers</u>	5
<u>Competition With District Service</u>	5
Load and Resource Information	
<u>Historical and Five-Year Load Forecast</u>	6
<u>Customer Profile Information</u>	6
<u>Supply Side Resources</u>	7
<u>Demand Side Resources</u>	8
Identification and Comparison of Resource Options	8
Designation of Options	8
Action Plan	
<u>Resource Action Plan</u>	9
<u>Conservation Action Plan</u>	10
<u>Validation and Evaluation</u>	10
Environmental Effects	11
Public Participation	11
Appendices	
Appendix A—Map of District Service Territory	
Appendix B—Current Rate Schedules	
Appendix C—Load and Resource Information	
Appendix D—Integrated Resource Plan Public Meeting Notice	

## Profile Data

Electrical District Number Five ("ED5" or "the District") is an electrical district established in 1946 by the Board of Supervisors of Pinal County pursuant to Chapter 3 of Title 30 of the Arizona Revised Statutes. ED5 was organized to provide, and since 1952 has provided, electrical power and energy primarily for pumping water for irrigation. ED5 obtained its original power purchase certificate from the Arizona Power Authority ("the Authority") in 1949.

ED5 is located in Pinal County, Arizona. With a service area of approximately 49,000 acres, ED5 serves primarily agricultural irrigation pumping loads, with the remainder being a small number of farm and agriculture-related residential and commercial customers. ED5 owns all of the distribution lines transmitting its power to its customers and associated electrical equipment. ED5 receives power and energy on the Parker-Davis System purchased from the Authority and Western Area Power Administration ("Western"). A map of ED5's service area is provided in **Appendix A**.

ED5 is governed by a five-member Board of Directors elected annually by freeholders of property within ED5's boundaries. Its current staff consists of one Manager and the District operates and maintains its system under an agreement with Central Arizona Irrigation and Drainage District. The District's current Board of Directors and relevant contact persons are detailed below.

- **Board of Directors**

Sam G. Smith—Chair  
R. Gale Pearce—Vice-Chairman  
William D. Woehlecke—Secretary/Treasurer  
Don England Jr.  
Clay White

- **Contact Persons**

Ron McEachern  
District Manager  
Electrical District Number Five  
P.O. Box 576  
Eloy, AZ 85231  
Ph: (520) 466-7336  
Fax: (520) 466-7778

Kenneth R. Saline  
Engineering Consultant  
K. R. Saline & Associates, PLC  
160 N. Pasadena, Ste. 101  
Mesa, AZ 85201-6764  
Ph: (480) 610-8741  
Fax: (480) 610-8796

ED5 purchases power from the Authority (Hoover Power), Western (SLCA/IP or CRSP Power), and other sources. ED5 has a control area agreement with the Salt River Project ("SRP"), participates in the Hoover Resource Exchange Program, and is a party to an Integrated Resource Scheduling Agreement. These arrangements permit ED5 and other similarly situated utilities to integrate and exchange Hoover and SLCA/IP power resources. The power and energy from the Authority and Western are transmitted over the Parker-Davis transmission system to the Authority-owned and District-leased ED5 substation for deliveries to ED5 customers. The power and energy are delivered to the customers of ED5 over facilities owned and operated by the District.

The policies for service, rates and taxes for power provided by ED5 to its customers are determined and set by its Board of Directors. Copies of ED5's current rate schedules are attached as **Appendix B**.

In addition to crop prices and operating costs, the overall financial feasibility of the farming operations is significantly impacted by water costs from irrigation pumping which is supplied with ED5 electrical power. ED5 purchases the majority of its power resources from the Authority and Western. The impacts of increased power costs and reduced usage have historically caused the District to increase the District's irrigation customer rates. In 1994 the District implemented a Horse Power charge to try to offset the increases in hydropower costs.

The current projection of the District loads for the upcoming two-year and five-year periods does not indicate that additional resources are needed. The resource scheduling and utilization of the District's resources has been managed through the Authority's Hoover Resource Exchange Program and through the District's participation in an Integrated Resource Scheduling program for Hoover and SLCA/IP resources, respectively. These resource management programs have provided the necessary flexibility for the District to re-pattern its resources monthly to meet its changing loads and exchange the resources with other preference entities that can temporarily utilize the power during the same periods. With the continuation of these programs, and current loads and resources, there is not any long-term need for additional resources for the District. Therefore, the District will use its current entitlements of Hoover and SLCA/IP resources with intermittent purchases of supplemental power to meet its projected loads through the five-year planning period.

## District Goals and Objectives

- Provide Reliable Electric Power at Lowest Practicable Cost, Consistent With Sound Business Principles
- Enhance Customer Financial Stability by Providing Services which Enhance Property Values and Provide Long-Term Stability in Electric Power Rates

## Competitive Situation

- **District Contract Information**

Arizona Power Authority (Hoover Power Contract)  
Western Area Power Administration (SLCA/IP Contract)  
SRP Control Area Agreement  
SRP Power Services Master Agreement

- **Regulations Applicable to District**

Energy Planning and Management Program (EPACT '00)

- **Regulations Applicable to District Customers**

Arizona Department of Water Resources - Groundwater Management Act

- **Competition With District Service**

There is competition for leasing the farm ground within ED5. Many of the land owners in ED5 and other districts lease ground to tenant farmers who lease property based upon lease cost and water costs (i.e., pumping costs). Therefore, to the extent that the costs in ED5 become significantly higher than other areas, the competition for farm ground may significantly impact the irrigated acreage and electric load of the District.

## Load and Resource Information

- **Historical and Five-Year Load Forecast:**

	Winter Demand CP Oct-Sep @ Sub (kW)	Summer Demand CP @Sub (kW)	Peak Annual Growth	Energy @Substation (kWh)	Load Factor
1997	7,705	11,367		38,651,164	39%
1998	6,294	9,422	-17%	29,260,863	35%
1999	7,280	13,451	43%	35,134,504	30%
2000	6,018	7,732	-43%	33,966,649	50%
2001	6,889	11,181	45%	32,452,408	33%
2002	7,028	10,111	-10%	35,713,493	40%
2003	9,784	12,474	23%	52,221,347	48%
2004	10,044	12,636	1%	55,278,000	50%
2005	9,461	11,145	-12%	36,692,370	38%
2006	9,364	11,534	3%	44,085,225	44%

***Current Forecast***

2007	9,364	11,534	0%	44,085,225	44%
2008	9,364	11,534	0%	44,085,225	44%
2009	9,364	11,534	0%	44,085,225	44%
2010	9,364	11,534	0%	44,085,225	44%
2011	9,364	11,534	0%	44,085,225	44%

See **Appendix C** for a summary of the historical monthly load information as well as a graphical illustration of how the District schedules its resources to cover its loads in a typical year.

- **Customer Profile Information**

Irrigation Pumping Plants—21%  
 Residential Load—42%  
 Commercial Load—10.5%  
 Other—26.5%

See **Appendix C** for a graphical illustration.

- **Supply Side Resources**

The District anticipates that current federal resources under contract and continuation of the Integrated Resource Scheduling procedures and the Authority Hoover Resource Exchange Program will be sufficient for the District to meet its monthly power and energy requirements through the short-term and long-term planning periods. Some supplemental power will continue to be purchased from time-to-time, either from SRP or others, to cover any short-term power deviations. Detailed below are the District’s current contractual commitments:

Arizona Power Authority (Hoover Power) at ED5 Tap

- Hoover A Capacity & Energy
  - 14,200 kW (Maximum with Hoover Firming Capacity)
  - 48,535,000 kWh (Contract Entitlement)
- Expires September 30, 2017

SLCA/IP Capacity at ED5 Tap

- Winter Season CROD: 2,449 kW
- Summer Season CROD: 2,742 kW
- Contract Term: Expires September 30, 2024
- Energy entitlements by fiscal year:

<i>Fiscal Year</i>	<i>Winter Season Energy (kWh)</i>	<i>Summer Season Energy (kWh)</i>
FY 2006	4,223,783	4,692,741
FY 2007	4,312,537	4,791,349
FY 2008	4,401,291	4,889,957
FY 2009 - FY 2024	4,490,045	4,988,565

Power Sale and Service Agreement (SRP)

- Supplemental Energy service, Firm Capacity/Energy Sale or Exchange, Energy Based Control Area Services
- Expires August 31, 2010

Control Area Services Operating Agreement (SRP)

- Control Area services: System Control service, Energy scheduling, Interchange scheduling, Inter-tie Operating service, Dynamic Scheduling service, Load Imbalance service, Regulation service, Spinning Reserves service, Non-Spinning Reserve service
- Expires August 31, 2010

- **Demand Side Resources**

The majority of the District’s electric power is utilized to pump groundwater for agricultural purposes. The following is a list of some of the on-going water conservation practices that are implemented by the District’s customers to efficiently utilize groundwater and therefore electricity.

Alternate Furrow Irrigation	Graded Furrow or Border	Use of Gated Pipe
Cut-Back Irrigation	Portable Sprinklers	Micro spray Systems
Angled Rows	Uniform Slopes	Tail Water Recovery
Shortened Field Lengths	Deficit Irrigation	Irrigation Scheduling
Land Leveling	Soil & Water Amendments	Concrete Ditch Lining
Precision Tillage	Cropping Pattern-Winter vs. Summer	

## **Identification and Comparison of Resource Options**

The identification of options for additional resources within this Integrated Resource Plan is coordinated through an examination of the costs and benefits for each resource. Because the majority of the District’s customers already implement numerous irrigation and agricultural efficiency practices in their operations and because the Arizona Groundwater Management Act heavily regulates the use of groundwater, opportunities for additional energy savings through demand side management (“DSM”) are very limited. However, the District will continue to look for other opportunities for energy savings from evolving technological advances in agricultural practices. To the extent practicable, the District will also endeavor to promote customer awareness of pumping workshops and other similar forums for further education on advancements in water conservation practices and technology.

## **Designation of Options**

If additional resources are needed, the least cost option is identified from a cost benefit analysis. This information is considered by the Board of Directors in public meetings and combined with other information to select an Action Plan for the District which conforms with the regulations and guidelines of the Energy Planning and Management Program. The selection of the District’s Action Plan also includes consideration for reliability of service, economics, rate impacts and price elasticity, environmental effects, regulatory impacts and risks, legal considerations and risks, competitive impacts, social acceptance and public considerations and any other factors which may be identified from time-to-time which may be pertinent in selecting or implementing an Action Plan.

## Action Plan

- **Resource Action Plan**

The time period covered by the District's Action Plan is the five-year period from 2007 through 2011.

The District has determined that to provide reliable electric power at the lowest practicable cost, consistent with sound business principles, the District will continue using its long-term entitlements of Hoover and SLCA/IP power to supply the District's projected long-term power requirements. The current federal resources and continuation of the Integrated Resource Scheduling procedures and the Authority Hoover Resource Exchange Program will be sufficient for the District to meet its monthly power and energy requirements through the short-term and long-term planning periods. Additional purchases of supplemental power will continue to be made from time-to-time to cover any short-term power deviations. The District is not experiencing any anticipated load growth and therefore does not need any new resources at this time. However, the District continues to participate in the Southwest Public Power Resources ("SPPR") Group in evaluating future resource opportunities. The SPPR Group represents 20 Participants comprised of thirty-nine public power entities providing service in Arizona, California, and Nevada. Although the District does not anticipate any immediate change in resource options due to the efforts of the SPPR Group, it may assist the District in accessing new long-term options in the future. The District continuously reevaluates the possible need for new resources, the availability of less costly resources and the potential for additional DSM activities. The District's Resource Action Plan enhances customer financial stability by providing services that will enhance property values and provide long-term stability in electric power rates.

The District provides electricity to farmlands that are also served from surface water supplies from the Central Arizona Project ("CAP"). The CAP began delivering water to farmlands within the district in 1988 and the CAP policies for pricing and availability of CAP water have changed dramatically since the start of CAP deliveries. Since pumped water and CAP water are both essential in providing a reliable supply of water to farmed lands, the impacts of CAP water deliveries upon the District's loads can be significant from year-to-year. Currently CAP pricing is reviewed annually to increase sales of CAP water to Arizona entities. CAP water price support programs and in-lieu programs are currently being implemented to encourage additional CAP water usage which impacts the District's annual pumping loads. Even if CAP water could supply the entire water requirements for certain farms, the electric supplies are needed to backup the surface water system to reliably meet the water requirements of the farmed lands during canal outages and to supply ineligible farm lands due to Reclamation Reform Act regulations. The pumps are also used to augment surface water supplies in peak months when canal limitations restrict the amount of water that

can be supplied from CAP. While the impact of CAP water is significant upon the seasonal electric requirements of the District, the District's current resources and flexibility provided from the Hoover Resource Exchange Program and the Integrated Resource Scheduling procedures should be sufficient for the District to adjust its resources to the changes in load requirements which may result from changes in CAP water delivered to District land owners for the five-year planning horizon.

Since no new resources are needed, there are no milestones to evaluate accomplishment of the Plan activities. Nevertheless, the District will monitor any adjustments to the Plan for the long-term resource needs and will annually review its electric loads and resources for any significant changes. In the event the loads of the District are projected to materially increase above those levels represented in the Load and Resource information, other than normal deviations due to cropping changes or weather impacts, the District will review its forecast and evaluate the need for modifying its Integrated Resource Plan and notify Western accordingly. In any event, the District will evaluate its load forecast and resource information in detail every five years and refresh its Integrated Resource Plan, in accordance with Western's regulations.

- **Conservation Action Plan**

The District has decided to continue certain conservation activities to promote and maintain energy efficiency and customer awareness for conserving electric, water, and land resources.

**Period:** Calendar Year 2007 through 2011

**Activity:** Power Factor Improvement Program  
Distribution System Line Loss Reduction Program  
Distribution System Equipment Inspection Program  
Irrigation Well Efficiency Testing Program for District Customers

- **Validation and Evaluation**

ED5 has worked very closely with representatives of the Arizona Power Authority and various consultants to maintain its system. The District has utilized infrared equipment on loan from the Authority and has hired consultants to calculate the District's power factor and system losses and as a result of those findings has implemented a program which includes the monthly inspection of the system regulators, reclosers and capacitors to keep system losses to a minimum. The District has set in place an inspection form for each of the devices where the field service crews can log their inspection and identify any defective components which could be repaired or replaced in order to increase the efficient operation of the distribution system.

The District also has an on-going program to monitor the efficiency of the wells served by the District. This program evaluates both the water and energy efficiency of each well. When the well's efficiency drops below a certain level, the equipment is removed and inspected for needed repairs or replacement. These well rehabilitations result in the continued efficiency of the wells and have been very successful over the last fifteen years in reducing the amount of energy required to meet the customers' pumping needs.

## **Environmental Effects**

The District is required, to the extent practicable, to minimize adverse environmental effects of new resource acquisitions and document these efforts in the Integrated Resource Plan. Since the District does not foresee the acquisition of any additional resources, there are no adverse environmental effects caused by new resource acquisition. Under the District's current resource plan, the District utilizes hydro resources to meet the majority of its electric loads. To the extent the District utilizes the Integrated Resource Scheduling procedures or the Authority Hoover Resource Exchange Program to exchange and better utilize the hydro resources of the District and other similarly situated utilities, such efforts should be environmentally beneficial since such increased utilization would offset steam generation purchases.

In addition to maximizing the hydro resources, the District's customers are involved in substantial water conservation programs in their farming practices. The installed water conservation investment by the District's customers is extensive and far-reaching. Their ongoing conservation practices and ongoing maintenance of conservation investments continue to conserve significant amounts of groundwater annually. To the extent the District sponsors conservation activities and information activities with its customers, the conservation of groundwater is the fundamental achievement, which is environmentally beneficial and economically sound. The overall irrigation efficiency of each farmer is heavily regulated by the State of Arizona through the Groundwater Management Act.

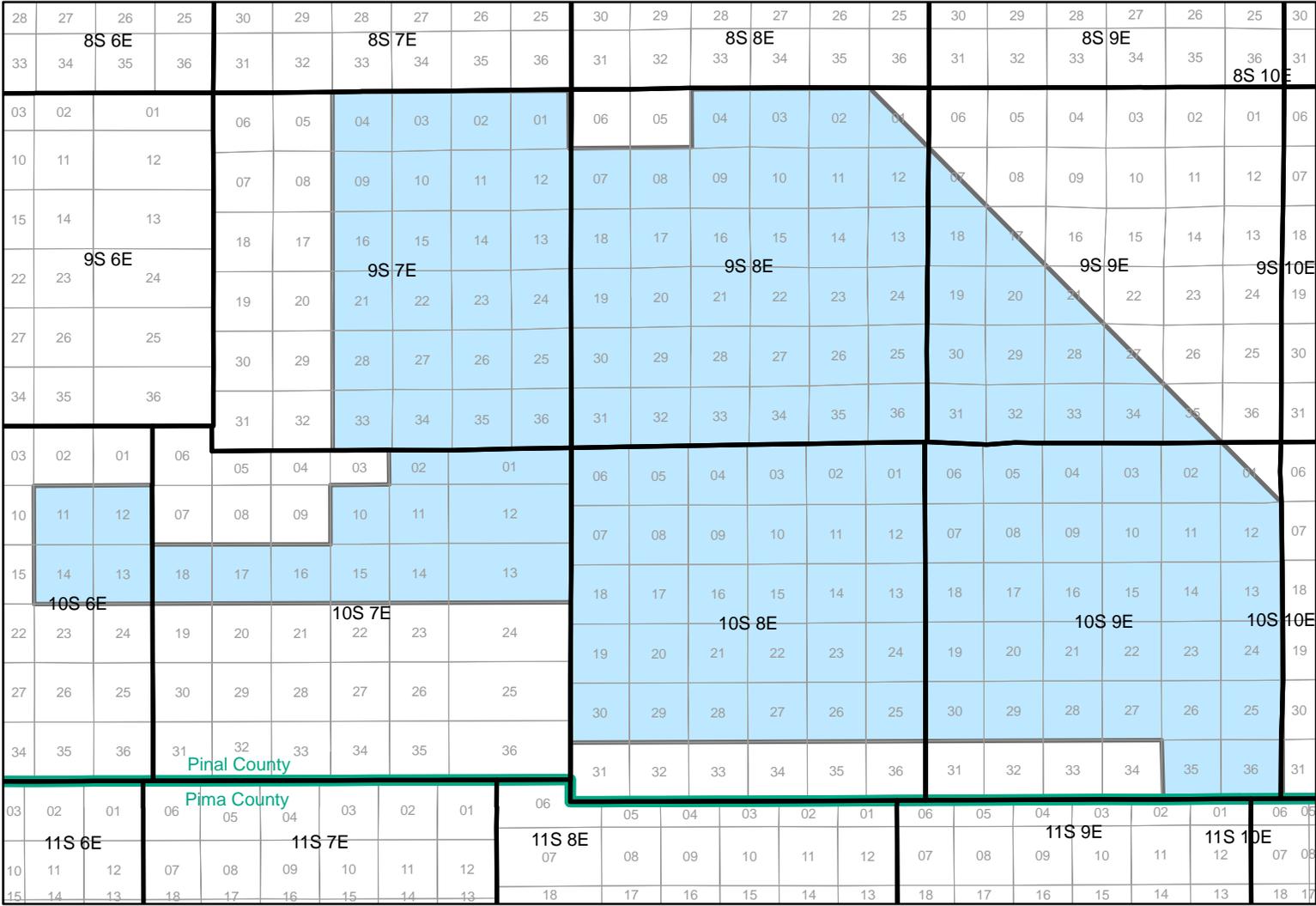
## **Public Participation**

The District has held one public meeting to discuss the development of its Integrated Resource Plan.

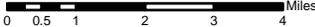
Prior to the meeting, the District posted notice in advance of the meeting, giving the time and place of the meeting and specifying that the District would be considering a draft Integrated Resource Plan at the meeting. The notice was posted in accordance with statutory open meeting law requirements. The notice stated that the draft Integrated Resource Plan would be available to the public in advance of the meeting and that public comment on the draft Plan would be accepted at the meeting. A copy of the notice is attached as **Appendix D**.

At the meeting, the draft Integrated Resource Plan was presented to the Board. After discussion and the opportunity for public comment, the Board authorized the preparation of a final Plan, with such revisions as the Board deemed appropriate. There were no public comments.

**APPENDIX A -- Map of Service Territory**



**Electrical District Number Five (Pinal County)**



**DISCLAIMER:**  
K.R. Saline & Associates, PLC  
Do not warrant the accuracy  
or location of the facilities shown



8-29-06

ELECTRICAL DISTRICT NO. FIVE

**ELECTRIC RATE SCHEDULES**  
**2006**

	RATE CODE
RATE SCHEDULE NO 1 – RESIDENTIAL	
Overhead	01OH
Underground	01UG
RATE SCHEDULE NO 2 – SMALL COMMERCIAL	
Overhead	02OH
Underground	02UG
RATE SCHEDULE NO 3 – LARGE COMMERCIAL	
Overhead	03OH
Underground	03UG
RATE SCHEDULE NO 4 – INDUSTRIAL (ED5 HAS NONE)	
Overhead	04OH
Underground	04UG
RATE SCHEDULE NO 5 – AGRICULTURAL RELATED IRRIGATION PUMPING (CAIDD)	05
RATE SCHEDULE NO 6 – AGRICULTURAL RELATED PUMPING (non-CAIDD)	06
RATE SCHEDULE NO 7 – AGRICULTURAL RELATED COMMERCIAL	07
RATE SCHEDULE NO 8 – GENERAL SERVICE	
Overhead <span style="color: red;">GIN RATE</span>	08OH
Underground <span style="color: red;">none</span>	08UG
RATE SCHEDULE NO 9 – DUST TO DAWN LIGHTING	09
09MV	
09HPS250	
09HPS100	
RATE SCHEDULE NO 10 – GATES AND TURNOUTS	10
RATE SCHEDULE NO 11 – STREET LIGHTING	11
11HPS100	
11HPS250	
11HPS500	

**RESIDENTIAL RATE**

**RATE CODE 010H**

**Effective: January 1, 2006**

**ELECTRICAL DISTRICT NO. 5**

Residential Rate:

Customer Charge.....\$5.50 per month

Energy Charge:

First 1,000 kwh.....\$0.044 per kwh

Tax:

Plus applicable sales tax to the above.

Min. Same as Customer Charge

**UNDERGROUND RESIDENTIAL RATE**

**ELECTRICAL DISTRICT NO. FIVE  
P.O. BOX 576  
ELOY, AZ 85231**

**RATE CODE 01UG  
Effective: 08/01/2004**

**Applicability**

Applicable to underground planned residential development for residential use only in single private residences or apartments for lighting, appliances domestic single-phase power with no motor over 5HP, heating and cooking served through one meter. Three-phase service is subject to application.

**Availability**

In all areas within the District as now served. Subject to the requirements of the primary purposes of the District and the availability of power and energy in the opinion of the District.

**Type of Service**

Single phase, 120/240 volts 60 Hertz. Transformation is included in this rate. Subject to all standard policies, conditions, rules and regulations as adopted and amended by the District Board of Directors.

**RATE:**

Customer Charge	\$12.00
Energy Charge	
First 500 kWh	\$ 0.080
Each Additional kWh	\$ 0.070

**Monthly Minimum** \$12.00

**TAX**

Plus applicable sales tax to the above.

**DEPOSIT**

\$250.00 Deposit required per meter and is non-refundable until meter is disconnected.

**COMMERCIAL RATE  
NOT AGRICULTURE RELATED**

**ELECTRICAL DISTRICT NO. FIVE**  
**P. O. BOX 576**  
**ELOY, AZ 85231**

**RATE CODE 030H**  
**Effective: 01/01/05**

**Applicability**

Applicable for all commercial services Not Agriculture Related.

**Availability**

In all areas within the District as now served where each service is applied at one point of delivery and measured through one meter with an actual demand reading. Subject to the requirements of the primary purposes of the District and the availability of power and energy as determined in the opinion of the District.

**Type of Service**

Single and three phase, 60 Hertz 7200/12470 and 120/480 overhead and underground. Transformation is provided in most cases at this rate. Subject to all standard policies, conditions, rules and regulations as adopted and amended by the District Board of Directors.

**Rate:**

<u>Customer Charge</u>	\$25.00 for each connected meter
<u>Demand Charge</u>	\$3.50 for each KW
<u>Energy Charge</u>	\$0.056 for each KWH

**Minimum Monthly Charge** \$25.00

**Tax**

Plus applicable sales taxes to the above

**Determination of KW**

The greater of:

1. The average kW supplied during the period of maximum use during the month as determined from reading of the Company's meter.
2. 80% of the highest kW measured during the 12 billing months ending with the current month.

**ELECTRICAL DISTRICT NUMBER FIVE  
PINAL COUNTY**

November 10, 2004

**EFFECTIVE JANUARY 1, 2005 THE RATE FOR  
IRRIGATION PUMPING WILL BE:**

**RATE CODE** **CAIDD**      **05**

**RATE CODE** **NON-CAIDD**      **06**

All kWh.....3.4 cents / kWh

Monthly Capacity Charge \$0.54/kW-Month

The Monthly Capacity Charge for accounts  
Without kilowatt meters shall be estimated  
Based upon a conversion factor of 0.746 kW  
Per horsepower. The equivalent Monthly  
Capacity Charge based upon horsepower is  
\$0.40 per connected horsepower.

The District may impose a connection fee up to an amount equal to  
Six months of capacity charges for all facilities requesting to be  
Connected or reconnected.

(The Irrigation Rate prior to January 1, 2005)  
All kWh.....3.0 cents/kWh  
Monthly Capacity Charge \$0.54/kW-month

RATE CODE 07  
February 24, 2004

**ELECTRICAL DISTRICT NO. 5**

February 24, 2004

**COMMERCIAL RATE  
Agriculture Related**

Effective Date: February 1, 2004

Commercial Rates:

Demand Rate.....	\$3.00/kw
Energy Rate (kwh).....	\$0.054/kwh
Minimum Charge.....	\$25.00

RATE CODE 080H

**ELECTRICAL DISTRICT NO. 5**

**GIN RATE**

Effective Date 11-1-2000

Gin Rate:

Demand Rate.....\$3.00/kw

Energy Rate(kwh).....\$0.047/kwh

Minimum charge.....\$25.00

**RATE CODE 09**

**ELECTRICAL DISTRICT NO. 5**

**NIGHT LIGHT  
(FIXED RATE)**

Effective:

**Rate:**

Energy Charge per Light @ 70 kwhs.....\$5.14 Per Light

**Tax:**

Plus applicable sales tax to the above.

**ELECTRICAL DISTRICT NO. FIVE**

**P. O. BOX 576  
ELOY, AZ 85231**

**CAIDD CANAL GATES**

**RATE CODE 10  
Effective: 01/01/05**

**Applicability**

Applicable for all slide gate controlled check structure on the distribution system of the Central Arizona Irrigation and Drainage District.

**Type of Service**

Single and three phase, 60 Hertz/240 and 480 overhead. Transformation is included in this rate. Subject to all standard policies, conditions, rules and regulations as adopted and amended by the District Board of Directors.

**Rate:**

Flat Charge

\$13.00 for each installation

**Tax**

Plus applicable sales taxes to the above

**RATE CODE 10  
STREET LIGHTING  
Effective 08/01/04**

**ELECTRICAL DISTRICT NO. 5  
P.O. BOX 576  
ELOY, AZ 85231**

**Applicability:**

To all customers for the purpose of outdoor lighting of streets, alleys, thoroughfares, public parks and playgrounds. Service is dusk to dawn and District will own, operate and maintain the street lighting system including lamps and glass replacements.

**Availability:**

In all areas within the District as now served. Subject to the requirements of the primary purposes of the District and the availability of power and energy as determined in the opinion of the District.

**Rates**

High Pressure Sodium Lighting		
Single Fixture Light	100 Watts, HPS	\$17.50
Single Fixture Light	250 Watts, HPS	\$29.00
Double Fixture Light	500 Watts, HPS	\$35.00

**TAX:**

Plus applicable sales tax to the above.

## ELECTRICAL DISTRICT NUMBER FIVE OF PINAL COUNTY

*Demand @ Substation (kW)*

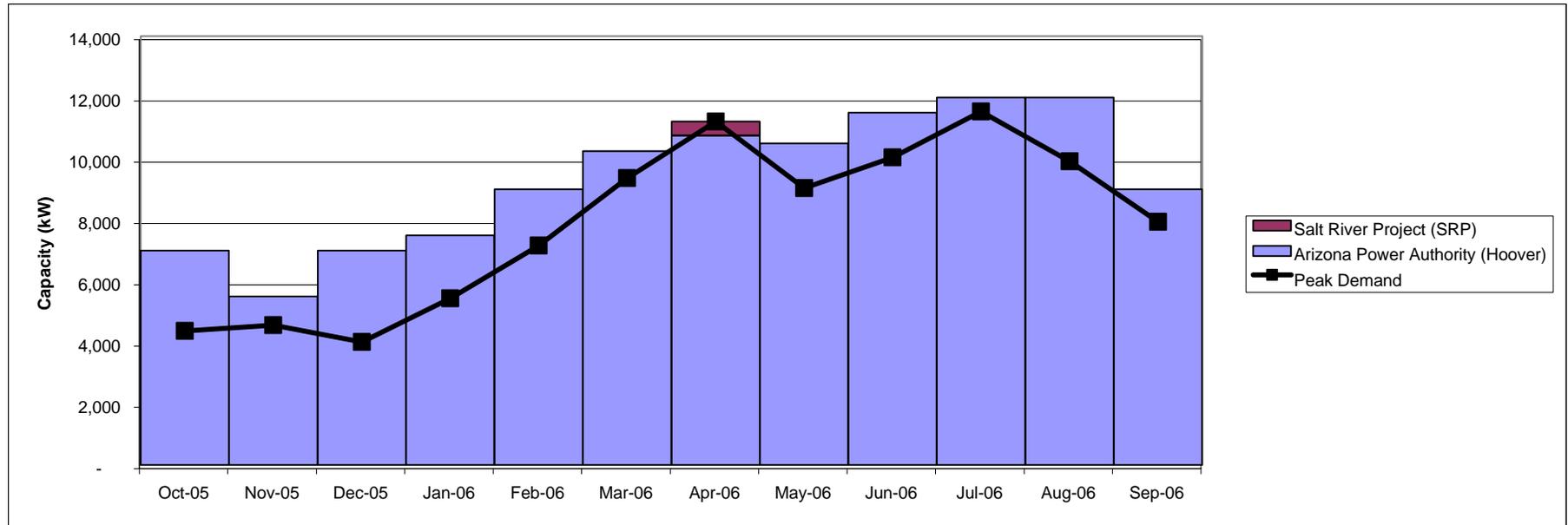
<u>Year</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>Max</u>
1997	6,702	4,084	6,666	5,094	4,718	7,705	8,155	9,745	10,030	10,291	11,367	4,822	11,367
1998	4,287	4,268	2,351	5,440	3,606	6,294	6,358	6,300	6,851	7,634	7,679	9,422	9,422
1999	7,280	5,319	6,192	6,136	6,289	6,014	6,828	7,017	13,451	6,566	6,267	4,984	13,451
2000	5,575	4,691	4,599	5,460	5,270	6,018	6,602	6,818	7,067	7,490	7,732	5,759	7,732
2001	5,651	4,236	4,995	4,698	5,062	6,889	6,836	7,245	7,159	11,181	6,994	6,380	11,181
2002	6,533	6,597	5,717	6,054	4,733	7,028	6,560	7,145	7,322	8,639	10,111	8,418	10,111
2003	6,808	5,109	6,153	5,864	6,901	9,784	10,011	10,951	10,692	11,891	12,474	8,942	12,474
2004	6,998	5,476	5,572	6,577	7,744	10,044	10,498	11,956	12,636	12,539	12,215	9,072	12,636
2005	4,666	3,499	3,823	4,504	3,791	9,461	9,623	9,817	9,817	11,145	10,854	7,582	11,145
2006	4,374	4,568	4,018	5,443	7,160	9,364	11,210	9,040	10,044	11,534	9,914	7,938	11,534

*Energy @ Substation (kWh)*

<u>Year</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>Total</u>
1997	2,069,882	1,364,844	2,136,785	1,948,537	1,799,665	3,983,314	4,208,414	4,486,434	5,668,916	5,743,033	3,470,287	1,771,053	38,651,164
1998	1,365,653	1,183,890	1,020,696	2,059,649	629,902	1,941,402	2,712,384	3,169,483	3,848,323	3,545,342	4,117,802	3,666,337	29,260,863
1999	2,434,253	2,295,200	2,583,317	3,038,465	2,835,275	2,984,527	2,557,808	3,848,703	4,459,966	3,056,400	3,240,628	1,799,962	35,134,504
2000	1,995,678	1,918,805	1,850,832	2,229,290	2,295,389	2,460,340	3,878,503	3,887,999	3,353,099	4,224,691	3,144,689	2,727,334	33,966,649
2001	1,614,201	1,531,028	1,730,980	1,225,863	1,350,453	2,997,136	3,473,504	4,005,284	3,947,441	5,062,777	3,090,954	2,422,787	32,452,408
2002	2,214,148	2,199,537	1,776,510	2,464,771	1,845,949	2,099,719	2,623,567	3,617,605	3,746,673	4,738,045	5,506,987	2,879,982	35,713,493
2003	2,526,509	1,736,129	1,705,909	2,923,200	2,343,600	5,346,000	5,893,200	6,084,000	6,318,000	7,070,400	6,562,800	3,711,600	52,221,347
2004	2,894,400	1,339,200	2,343,600	2,451,600	2,037,600	4,788,000	5,965,200	7,142,400	7,462,800	7,786,800	7,034,400	4,032,000	55,278,000
2005	1,522,800	975,600	1,245,600	1,026,000	806,400	4,208,400	5,670,000	4,424,400	3,740,400	6,512,400	3,614,400	2,945,970	36,692,370
2006	1,689,547	1,733,287	1,721,023	2,065,322	2,852,691	3,852,522	6,095,688	4,241,986	5,581,257	5,996,058	5,314,799	2,941,045	44,085,225

**ELECTRICAL DISTRICT NUMBER FIVE OF PINAL COUNTY**

**SCHEDULED RESOURCES TO COVER TYPICAL PEAK DEMAND**



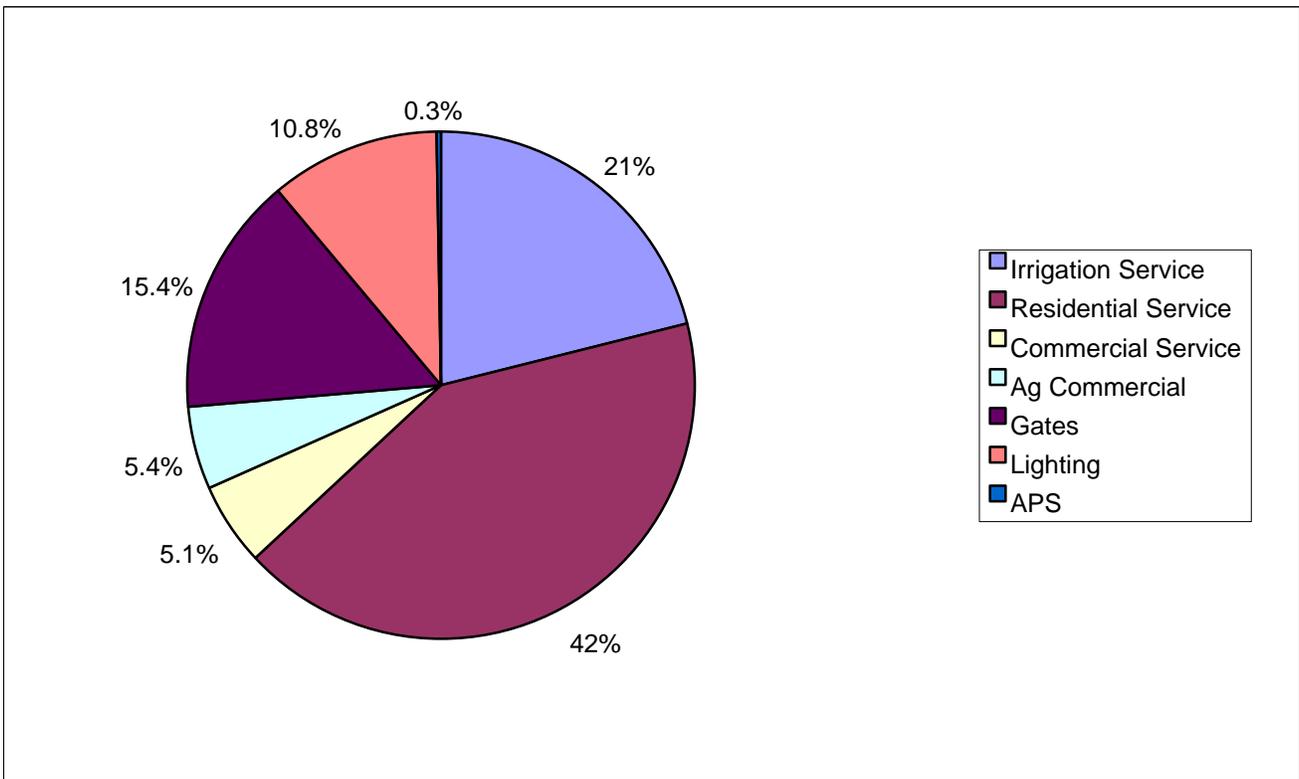
**Resources**

	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06
Arizona Power Authority (Hoover)	7,000	5,500	7,000	7,500	9,000	10,250	10,750	10,500	11,500	12,000	12,000	9,000
Colorado River Storage Project (CRSP)	-	-	-	-	-	-	-	-	-	-	-	1,000
Salt River Project (SRP)	-	-	-	-	-	-	460	-	-	-	-	-
<b>Peak Demand</b>	<b>4,374</b>	<b>4,568</b>	<b>4,018</b>	<b>5,443</b>	<b>7,160</b>	<b>9,364</b>	<b>11,210</b>	<b>9,040</b>	<b>10,044</b>	<b>11,534</b>	<b>9,914</b>	<b>7,938</b>

**ELECTRICAL DISTRICT NUMBER FIVE OF PINAL COUNTY**

*Customer Profile*

<b>Customer Type</b>	<b># of Meters</b>
<i>Irrigation Service</i>	82
<i>Residential Service</i>	164
<i>Commercial Service</i>	20
<i>Ag Commercial</i>	21
<i>Gates</i>	60
<i>Lighting</i>	42
<i>APS</i>	<u>1</u>
<b>Total</b>	<b>390</b>





# ELECTRICAL DISTRICT NUMBER FIVE

## PINAL COUNTY

### **Directors**

SAM G. SMITH  
Chairman

R. GALE PEARCE  
Vice-Chairman

WM. WOEHLCKE  
Secretary/Treasurer

DON ENGLAND JR.  
CLAY WHITE

POST OFFICE BOX 576

ELOY, ARIZONA 85231

TELEPHONE: (520) 466-7336

District Manager  
RON MCEACHERN

### **A G E N D A**

**Meeting November 28, 2006**

10:30 A.M.

1. **CALL TO ORDER AND ESTABLISH A QUORUM:**
2. **APPROVAL OF MINUTES:** ACTION  
Regular Meeting held on October 24, 2006 and November 1, 2006
3. **FINANCIAL REPORTS :** ACTION
  - A. Monthly Reports
  - B. Ratification of Bills Paid
4. **REVIEW AND APPROVAL OF INTEGRATED RESOURCE PLAN:** ACTION  
Opportunity for public comment on updated five year plan
5. **K. R. SALINE & ASSOCIATES UPDATE ON VARIOUS MATTERS:**
  - A. SPPR Update Possible Action
  - B. Control Area Provider
  - C. Other
6. **APA & IEDA MEETING REPORT:**  
Gale Pearce
7. **MANAGER'S REPORT:** (Ron McEachern)
  - A. Operations Report
  - B. Upcoming Meetings -
    - 1) CAIDD/ED4/ED5 Christmas Party, Saturday, December 9, 2006 at Eloy Golf Course – 5:30 social and 6:30 dinner
    - 2) Arizona Power Authority, 10:00 a.m. Tuesday, December 19, 2006
    - 3) IEDA, noon, Tuesday, December 19, 2006 University Club
    - 4) ED5 Regular Meeting, 10:30 a.m. Tuesday, December 26, 2006 (Change?)
    - 5) CRWUA Annual Meeting, December 13-15, 2006 in Las Vegas.
  - C. Other -
8. **CHAIRMAN'S REPORT:**
  - A. Discussion of Board Vacancy for Future Action
9. **REPORT OF DIRECTORS' & OTHER BUSINESS:**

10. **EXECUTIVE SESSION:** Pursuant to A.R.S. Section 38-431.03 (A) (1) & (2), the Board may vote to resolve into executive session for discussion of personnel or records exempt by law from public inspection.
11. **RECONVENE / ACTION PURSUANT TO EXECUTIVE SESSION:**
12. **CALL TO THE PUBLIC:**
13. **ADJOURNMENT:**

## **PUBLIC NOTICE**

Electrical District No. 5 of Pinal County (“the District”) will be holding a board meeting at **10:30 a.m.** on Tuesday, **November 28**, 2006 at **Bedillon’s Restaurant**. At that board meeting the District will review and approve its updated Integrated Resource Plan. This Integrated Resource Plan, which is required by the Western Area Power Administration, details the District’s power resource plan for the next five years. The final Integrated Resource Plan will be available to the public prior to the meeting. Written comments regarding the Integrated Resource Plan will be accepted anytime prior to or at the meeting. Public comments will also be accepted at this time. Please contact **Ron McEachern, District Manager** at **520-466-7336** for more information.