



FY12 PowerWise  
Retrocommissioning Solutions  
Participant Program Manual

May 1, 2011

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## 1.1 PROGRAM OVERVIEW

One of the primary objectives of SRP's PowerWise Business Solutions energy efficiency portfolio is to offer our customers every opportunity to help manage their energy expenses. SRP's suite of available program initiatives provides rebates for nearly every energy efficient technology and product available in today's market. SRP's PowerWise Retrocommissioning Solutions is uniquely suited to fit within SRP's existing capital improvement rebate programs by offering energy analysis services to identify low-cost and no-cost energy efficiency measures.

PowerWise Retrocommissioning Solutions is designed to help customers achieve demand and energy savings in commercial and industrial facilities. Savings are realized through the systematic evaluation of facility systems and customer's implementation of cost-effective measures targeted to improve facility operation that, in many cases, also improve occupant comfort and production efficiency.

Program participants are commercial and industrial facility owners who have demonstrated a commitment to spend \$10,000 or more to implement identified retrocommissioning measures with an estimated total project simple payback of two years or less based upon electric savings.

Candidate facilities include existing facilities that are on an SRP retail commercial price plan, are at least 5 years old, have at least 75,000 square feet of conditioned floor space, possess a functioning direct digital control energy management system (EMS), and have a relatively high Energy Use Index (EUI) compared to the EUIs of buildings of the same class. No major renovation or large capital investments for the facility shall be pending, and owner/O&M staff shall express a commitment for active involvement in the process.

The program is a "service-rebate" program. This means the retrocommissioning analysis is the rebate to the customer and is fully funded by SRP. Participants are expected to cover the costs associated with implementing the measures recommended by the retrocommissioning analysis, attending meetings, and assisting Qualified Service Providers (QSPs) in acquiring facility information. Rebates for capital improvements such as lighting, HVAC, and motors are provided through the Standard and Custom elements of SRP's PowerWise Business Solutions.

## 1.2 CONTACT INFORMATION

SRP has retained Nexant, Inc. as the Program Administrator for PowerWise Retrocommissioning Solutions. Questions about the program can be directed to the Program Administrator via:

- Web
  - [www.savewithsrpbiz.com](http://www.savewithsrpbiz.com)
- Telephone
  - Customer informational hotline: (602) 236-3054
- Fax
  - (480) 345-7601
- Email
  - Customer inquiries: [savewithsrpbiz@srpnet.com](mailto:savewithsrpbiz@srpnet.com)
  - Qualified Service Provider inquiries: [QSPSupport@srpnet.com](mailto:QSPSupport@srpnet.com)

- Mail
  - SRP PowerWise Retrocommissioning Solutions  
PMB # 192  
4802 E Ray Rd Ste 23  
Phoenix, AZ 85044-6417

### 1.3 MANUAL USE AND ORGANIZATION

This program manual is specifically designed for use by facility owners, property managers, and O&M staff and is organized as follows:

- Section 2 addresses customer, measure, and eligibility requirements
- Section 3 discusses the rebate format
- Section 4 outlines the program participation process

### 2.1 CUSTOMER ELIGIBILITY

To participate in PowerWise Retrocommissioning Solutions, customers must purchase electricity from SRP on an eligible non-residential retail electric price plan. Table 2.1 lists eligible customer price plans.

**Table 2.1: Eligible Price Plans for PowerWise Retrocommissioning Solutions**

Description	Price Plan
Time-of-Use General Service	E-32
M-Power for Pre-Pay General Service	E-34
Standard General Service	E-36
Standard Pumping Service	E-47
Time-of-Week Pumping Service	E-48
Standard Large General Service	E-61
Primary Large General Service	E-63
Substation Large General Service	E-65
Substation Large General Service with Interruptible Load	E-66

Customers can verify their price plan by looking on a recent bill. Figure 2.1 shows where to find the price plan and account number on a typical SRP customer bill. Customers with questions regarding their account should contact the Program Administrator or their SRP Account Manager.

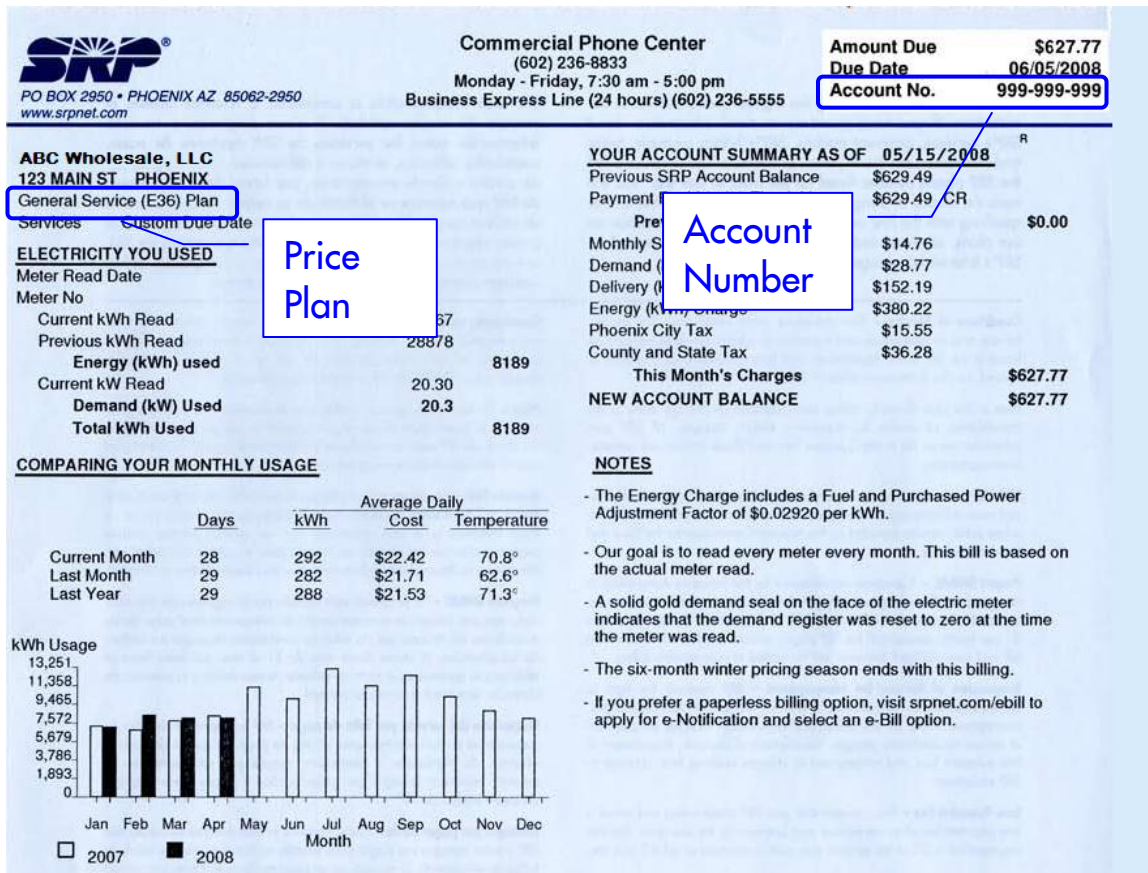


Figure 2.1: Representative SRP Electric Bill

For the purposes of SRP’s energy efficiency programs, a customer is defined as a company or organization that receives electric service from SRP under an approved SRP price plan. A customer is a holder of a single account, multiple accounts in aggregate or corporate accounts. Multiple accounts or corporate accounts with a single SRP customer identification number will be considered a single customer. An organization of this type can participate in multiple efficiency programs, but will be subject to any applicable customer rebate caps.

SRP retains the right to make final determination of customer eligibility.

## 2.2 FACILITY ELIGIBILITY

The facility owner and O&M staff must express a commitment to be actively involved in the retrocommissioning process. Active involvement will include:

- Providing access to the facility.
- Providing time for facility personnel to interface with the Qualified Service Provider.
- Providing and assisting with the reporting and collection of information pertaining to the retrocommissioning of the facility.
- Spending at least \$10,000 to implement identified retrocommissioning measures with an estimated total project simple payback of two years or less.

The estimated time commitment from the customer to support the retrocommissioning effort is 60 to 100 hours of a senior facility engineer or manager over the 10 to 12-month project duration.

In reviewing Project Applications, SRP will also look for evidence that cost-effective retrocommissioning opportunities exist. SRP will consider the following factors when reviewing customer applications:

- The facility should have accessible and up-to-date building documentation and records.
- The facility should have a relatively high Energy Use Index (EUI) compared to the average EUIs of buildings of the same class and/or have a low ENERGY STAR rating from Portfolio Manager.
- The facility should be at least 5 years old with at least 75,000 ft<sup>2</sup> of conditioned area.
- The facility should be free of major problems requiring capital repairs or replacements and have no planned major system renovations or retrofits.
  - A major renovation is defined as a change in facility use or where the existing system will not meet owner / customer projected requirements within existing facility square footage.
  - A retrofit is defined as changes, modifications or additions to systems or equipment in existing facility square footage.
- The facility must have an existing and functional building or system energy management system (EMS) with direct digital control (DDC)

SRP will select program participants based on the above considerations and based on the level of opportunity for savings. SRP's selection decisions will be final and binding for all parties.

### 2.3 PROGRAM DATES

PowerWise Retrocommissioning Solutions became effective on May 1, 2011. Retrocommissioning rebates are not eligible for prior customer-funded Retrocommissioning activities or without necessary pre-approvals.

### 3.1 REBATES

PowerWise Retrocommissioning Solutions is a “service-rebate” program. This means the retrocommissioning analysis and implementation technical assistance provided by SRP is itself the rebate to the customer and is fully funded by SRP.

In the program, retrocommissioning services are conducted exclusively by pre-approved Qualified Service Providers (QSPs). SRP covers retrocommissioning service costs at 100% for a QSP to investigate and identify savings opportunities. Program participants are responsible for covering the costs associated with attending meetings and assisting QSPs in acquiring facility information. Customers are also required to spend at least \$10,000 to contract and arrange for the implementation of identified retrocommissioning measures with an estimated total project simple payback of two years within a mutually agreed upon timeline. Customers that fail to comply with this requirement will be required to reimburse SRP for the full cost of any completed program-funded retrocommissioning planning, investigation, and verification costs incurred by the QSP.

No additional rebates will be available to participants through this program. However, if energy efficiency measures are identified that are beyond the scope of PowerWise Retrocommissioning Solutions, the customer may seek to qualify those measures through the Standard or Custom elements of the SRP’s PowerWise Business Solutions.

Customers will be subject to a maximum rebate of \$50,000 per approved PowerWise Retrocommissioning Solutions project and a total of \$200,000 from the program, and an overall rebate cap of \$300,000 per customer per program year from all PowerWise Business Solutions offerings from SRP during the FY12 Program Year. The FY12 Program Year is from May 1, 2011 through April 30, 2012. SRP will reserve the right to waive or adjust the rebate caps on a case by case basis and determine at their sole discretion the program year to which a rebate is attributed.

### 3.2 REBATE AVAILABILITY

Customer Applications to participate in PowerWise Retrocommissioning Solutions will be reviewed on a first-come, first-served basis until all rebate funding has been committed. Customers seeking participation after reservation of available funding will be given the option to be placed on a waiting list in the order requests were received by SRP. Current availability of rebate funds can be checked at [www.savewithsrpbiz.com](http://www.savewithsrpbiz.com) or by contacting the Program Administrator.

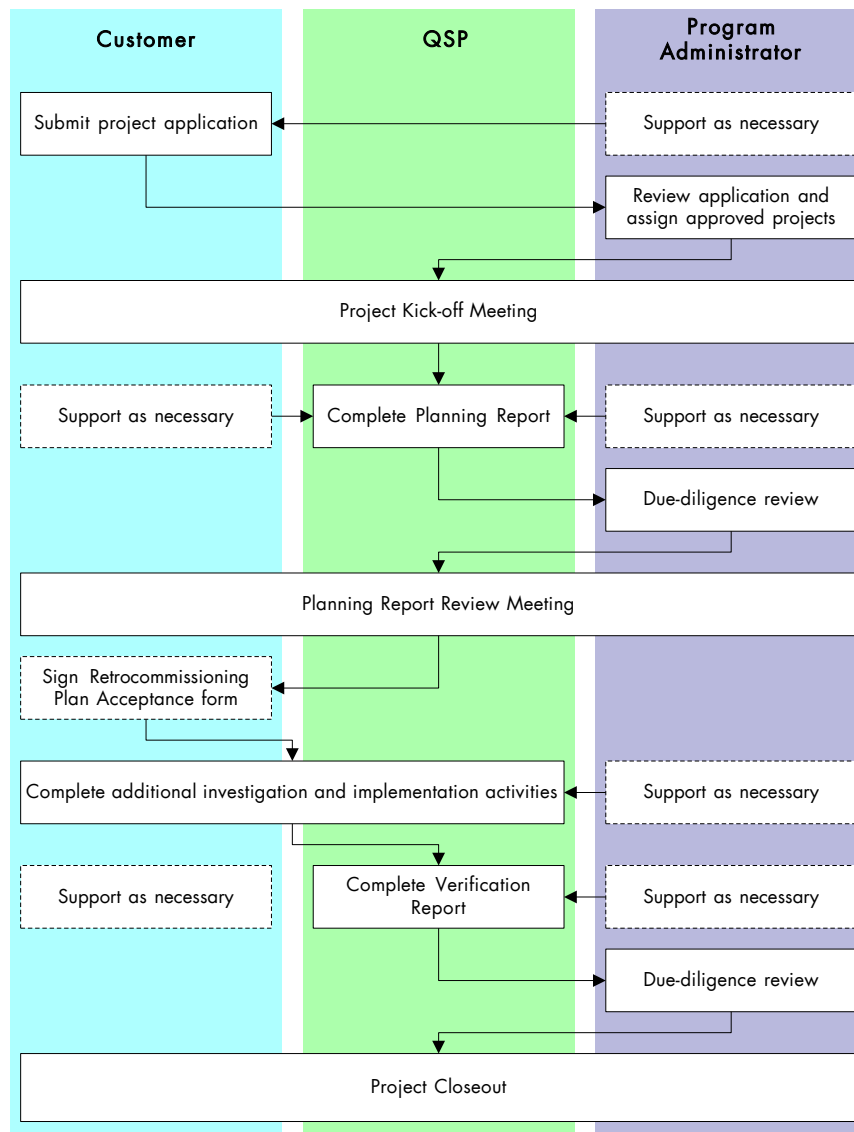
## Section 4

## Program Participation Process

The program administrative process for each project follows four basic program phases:

- 1) Application Phase
- 2) Planning Phase
- 3) Implementation Phase
- 4) Verification Phase

This process is illustrated in Figure 4.1 and additional information about each phase of PowerWise Retrocommissioning Solutions is provided below.



**Figure 4-1: PowerWise Retrocommissioning Solutions Participation Procedures**

#### 4.1 APPLICATION PHASE

A project begins with the Application Phase. Project Applications are completed by the facility owner or representative and submitted to the Program Administrator. Based on a review of submitted applications, the Program Administrator will select facilities with the highest perceived opportunity for savings to participate in the program. A sample copy of the Project Application is included in Appendix A of this manual.

The Program Administrator may conduct an on-site or telephone interview with facility personnel to gauge building and system condition as well as potential retrocommissioning opportunities. Upon acceptance of a Project Application, the Program Administrator will arrange a kick-off meeting with the customer's project team and the QSP.

If your facility is not selected to participate in the program, SRP may recommend one of the other energy efficiency programs listed in Appendix C of this manual as a better fit for your facility.

**Customer Role: Complete Application and Agree to Terms & Conditions**

**Deliverable: Program Acceptance or Rejection Letter**

**Duration: Two to three weeks**

#### 4.2 PLANNING PHASE

Following acceptance of a project into the program, work begins to establish the scope and timeline for the balance of the project. This Planning Phase typically takes about four to six weeks.

The Planning Phase commences with a project kick-off meeting with the owner representative, the customer's facility staff and contractors, the QSP, and the Program Administrator. A site assessment and data acquisition plan is completed by the QSP during this phase. The site assessment and data acquisition plan identify system operational characteristics and parameters (e.g. static pressure, discharge air temperature, damper position, etc.) that will be collected using the building automated control system. The customer's facility staff responsibilities during this phase are to provide building documentation and to support the QSP's orientation and knowledge regarding the building. These findings are used to generate the Retrocommissioning Plan for the project and assess potential measures and project economics.

The Retrocommissioning Plan establishes the framework and direction for the Implementation Phase. Upon the plan's completion, a Planning Review meeting is held with the owner representative and engineering staff to review the scope of the plan, the impacts and economics of the identified potential measures. At the completion of the Planning Review meeting, the facility owner reviews the retrocommissioning opportunities and acknowledges the measures to be investigated further and implemented in the Implementation Phase.

Prior to commencing the Implementation Phase, the customer must sign the Retrocommissioning Plan Acceptance form. This document includes several components that define the roles and responsibilities of each party, the project goals, and customer information release language. The primary goal of this process is to mutually agree to and formally document the customer's commitment to spending at least \$10,000 for implementation of mutually accepted retrocommissioning measures that result in a bundled estimated simple payback of two years or less. For projects that are not completed within an agreed to timeframe, the customer will be required to reimburse SRP the cost of any program-funded retrocommissioning planning, implementation, and/or verification costs incurred by the QSP.

SRP will reserve the right to determine at their sole discretion the final scope of the Retrocommissioning Plan for eligible projects to continue participating in the program.

**Customer Role:**

- 1) **Provide building documentation and support QSP’s information collection process.**
- 2) **Implement programming the data acquisition, trending and retrieval of relevant building systems, equipment, set points and operation as requested by the QSP**
- 3) **Sign Retrocommissioning Plan Acceptance form**

**Deliverable:**

- 1) **Retrocommissioning Plan**
- 2) **Signed Retrocommissioning Plan Acceptance form with SRP**

**Duration:** Four to six weeks

#### 4.3 IMPLEMENTATION PHASE

The Implementation Phase builds upon the Planning Phase to include activities such as conducting detailed site assessments, diagnostic testing, and trending analyses to evaluate current facility operating procedures, equipment functionality, and to verify planning phase assumptions. As retrocommissioning opportunities are finalized, the customer will be asked to fund and lead the implementation of such measures.

Throughout the Implementation Phase, the retrocommissioning measures and associated costs, savings, and economic impacts will be updated and summarized in the Customer Selection Form. This document will be utilized throughout the entire retrocommissioning process to communicate retrocommissioning opportunities and seek customer approval to proceed with implementation. In the event that additional retrocommissioning measures are discovered or existing measures are modified, the QSP will update the Customer Selection Form and review such measures with the owner.

During the Implementation Phase, the QSP works hand-in-hand with the customer’s implementation team to identify the recommended measures and provide recommendations to “fix” the problems. The customer’s implementation team includes the facility engineers, operational staff, and the mechanical, electrical, and controls contractors. As retrocommissioning measures are approved by the customer, the implementation team will be asked to “fix” the items associated with the relevant measures. The goal of this phase is to fully implement all agreed-upon retrocommissioning measures.

The implementation costs used to calculate project economics under the program of the measures are based upon reasonable market costs as approved solely by SRP’s Program Administrator. Resources to obtain market costs include, but are not limited to, industry accepted project estimation resources, vendor quotes, or professional judgment. The customer is afforded the flexibility to utilize in-house staff or an outside contractor to implement retrocommissioning measures implementation. Final implementation costs may vary from the estimated market costs; however, the market costs will be utilized to document customer implementation obligations.

**Customer Role:**

- 1) **Assist with QSP’s investigation activities**
- 2) **Implement programming the data acquisition, trending and retrieval of relevant building systems, equipment, set points and operation as requested by the QSP**

3) **Contract or arrange for implementation activities**

4) **Manage completion of recommended measures**

**Deliverable:**       **Implementation of mutually accepted Retrocommissioning Measures**

**Duration:**         **Eight to 20 weeks**

#### 4.4 VERIFICATION PHASE

During the Verification Phase, the QSP evaluates facility trending data (from the building EMS, facility sub-meters, or utility meter) and revisits the site to verify that measures have been properly completed (e.g. new control strategies are functioning properly, repairs have been made, etc). The QSP prepares and submits the Verification Report that summarizes the final findings and impacts from the project.

**Customer Role:**   1) **Support QSP’s verification process**  
                          2) **Implement programming the data acquisition, trending and retrieval of relevant building systems, equipment, set points and operation as requested by the QSP**

**Deliverable:**       **Verification Report**

**Duration:**         **Three to ten weeks**

A sample copy of the PowerWise Retrocommissioning Solutions Project Application is provided in this appendix. A Microsoft Word version of this application is available by contacting the Program Administrator.



### Application Instructions

SRP's PowerWise Retrocommissioning Solutions aims to help you identify low-cost opportunities to improve the efficiency of existing major mechanical and electrical systems and reduce energy costs without adversely affecting your facility or system operations.

To participate in this rebate program, please review the following steps:

1. **Read** the Terms and Conditions included in this packet.
2. **Complete** the following pages included with this application packet:
  - **General Information** – Include all required customer and account information.
  - **Facility Information** – Include all information requested in the application that is applicable to the facility.
  - **Facility Staff and Control System Management** – Include staff and existing control system information for the facility.
  - **Compressed Air, Processing, and Refrigeration Systems** – Include any requested information regarding these unique systems if installed at your facility.
3. **Sign** the Terms and Conditions page.
4. **Retain** a copy of the completed application. Submitted applications will become the property of SRP.
5. **Submit** the completed application and required documentation to:

SRP PowerWise Retrocommissioning Solutions  
PMB 192  
4802 E Ray Rd Ste 23  
Phoenix, AZ 85044-6417  
Fax: (480) 345-7601  
Email: [savewithsrpbiz@srpnet.com](mailto:savewithsrpbiz@srpnet.com)

**For More Information.** For more information about the PowerWise Retrocommissioning Solutions program, measure eligibility, rebates, or other SRP programs please contact us:

- Online at [www.savewithsrpbiz.com](http://www.savewithsrpbiz.com)
- By phone at (602) 236-3054
- By email at [savewithsrpbiz@srpnet.com](mailto:savewithsrpbiz@srpnet.com)

**Pre-Application Checklist**

**Please confirm you meet the following minimum eligibility requirements before submitting an application to participate in the program:**

Are you a non-residential SRP customer whose facility receives electric service on an eligible price plan? You can check a recent electric bill or refer to the service territory map in Appendix F of the PowerWise Retrocommissioning Solutions Participant Program Manual.  Yes  No

Are you willing to commit to spending \$10,000 on the implementation of identified retrocommissioning measures with an estimated simple payback of 24 months or less based upon electrical savings?  Yes  No

Is your facility at least 5 years old and exceed 75,000 ft<sup>2</sup> in air-conditioned floor space?  Yes  No

Is your facility free of major problems that require capital repairs or replacements and have no planned major system renovations or retrofits?  Yes  No

Does your facility have an existing and functional building or system energy management system (EMS) with direct digital control (DDC)?  Yes  No

**If selected for participation in the program, can you accept the following responsibilities?**

Provide access to the facility and time for facility personnel to interface with the Qualified Service Provider (QSP) during all phases of the project?  Yes  No

Provide and assist with the reporting and collection of information pertaining to the operation of the facility during all phases of the project?  Yes  No

Implement the mutually accepted retrocommissioning measures according to the scope and procedures outlined by SRP within a mutually agreed upon timeline?  Yes  No

**Next Steps**

If you answered yes to the above questions, please complete this application and submit it to SRP for consideration. In reviewing your application, SRP will look for evidence that cost-effective retrocommissioning opportunities exist at your facility. SRP's decision regarding selection of program applicants will be final and binding for all parties.

**DO NOT COMPLETE**

General Information

Important: This page is to be submitted with the signed Terms and Conditions, the completed Assessment Worksheet and supplemental documentation, as appropriate. Please allow three weeks for application review following complete documentation submittal. Ineligible or incomplete applications will not be approved.

Customer Information

Business name (as it appears on SRP Bill)

SRP Account number(s) if known

Facility address

City

State

Zip

Corporation Partnership Sole Proprietor/Individual LLC Other:

Federal Tax Id Number (must be 9 digits)

Business Classification (Check ONE. Required for all businesses, including non-profits)

Contact name

Contact phone number

Contact fax number

Email

Mailing address (if different from the installation address)

City

State

Zip

Building owner (if different)

Owner phone number

Owner fax number

Owner Email

Ownership status: Own Lease/Rent

If lease or rent, remaining term length:

Occupied last 12 months: Yes No

If no, number of months vacant:

How did you hear about SRP's PowerWise Retrocommissioning Solutions?

Other, please specify:

Facility Information

Primary building use (indicate percentages if multiple types)

- Automotive Facility, Convention Center, Court House, Dining: Bar/Lounge/Leisure, Dining: Cafeteria/Past Food, Dining: Family, Dormitory, Exercise Center, Gymnasium, Health Care - Clinic, Hospital, Hotel, Library, Manufacturing Facility, Motel, Motion Picture Theater, Multi-Family Housing, Museum, Office, Parking Garage, Penitentiary, Performing Arts Theater, Police/Fire Station, Post Office, Religious Building, Retail, School/University, Sports Arena, Town Hall, Transportation, Warehouse, Workshop, Other

Building size (sq. ft.):

Number of Floors:

Percent Conditioned:

Building Age:

Occupancy schedule

M-F

Saturday

Sunday

Outline the major facility space types, their scheduling, and typical occupant density (e.g. 10,000 ft<sup>2</sup>, 24-hour computer center that is unoccupied).

Briefly describe past energy efficiency projects or studies completed for the facility.

Describe any currently planned energy efficiency, renovation, or equipment replacement/upgrade projects for the facility.

Are there any scheduling issues that could affect the retrocommissioning work (e.g. major renovations or equipment replacements/upgrades)?

**SAMPLE**  
**Do Not Complete**

**Facility Staff and Control System Management**

Please identify key individuals responsible for the operation of the facility and state how long they have held their current positions.

Contact Name	Position	Years in this position	Facility Responsibilities

Please indicate the level of access and capability the chief facility engineer, staff, and/or controls contractor have to interact with the facility's energy management control system (select one):

- None
- Some (e.g. able to adjust set points and schedules)
- Full (e.g. able to modify control logic and trend facility data)

Indicate what training resources are available to the facility staff (check all that apply):

- None
- In-house
- Manufacturer and Vendor Courses
- Utility
- College/Vocational
- Professional Associations
- Other

Describe the facility manager's and staff's receptiveness to and interest in improving the energy efficiency of the facility.

---

SAMPLE  
 Do Not Complete

If accepted into the program, designate individuals that will act as a part of the owner’s project team and the amount of discretionary time to assist in the retrocommissioning process:

Position	Name	Amount of Time to Assist (per week)
Building Chief Engineer:		
Operations Manager:		
Safety Manager:		
Internal Controls Specialist:		
External Controls Contractor:		
Others:		

Identify the type and manufacturer of the facility’s energy management control system (EMS). If the facility does not have an automated control system, please indicate.

---

Is the EMS capable of trending and storing data for numerous points simultaneously?

---

When is the EMS likely to be replaced or receive a major upgrade?

---

What components of the facility are controlled with direct digital control (DDC) equipment?

---

What components of the facility are controlled, not just actuated, pneumatically?

---

Summarize any peak load shedding strategies currently being used.

---

Is the EMS managed internally or through an external controls contractor?

---

SAMPLE

DO NOT COMPLETE

If managed externally, please provide the following:

Company Name: \_\_\_\_\_

Name (of the company specialist): \_\_\_\_\_

Phone Number (of the company specialist): \_\_\_\_\_

Email Address (of the company specialist): \_\_\_\_\_

Please complete the following table listing the facilities major HVAC and lighting system components. In lieu of, or in addition to completing these tables, applicants can upload documents or equipment schedules containing the requested building information (i.e., Equipment, Type, Size, Age, etc.). Please follow the “upload project application document instructions below.

Equipment	Type	Size	Age
<b>Cooling equipment</b>			
Chiller 1 (example)	Centrifugal	300 tons	15 years
<b>Heat Rejection equipment</b>			
Cooling Tower 1 (example)	Open, closed loop, etc.	350 tons	15 years
<b>Air handling equipment</b>			
AHU 1 (example)	VAV w/hot water reheat	25,000 CFM	5 years
<b>Lighting systems</b>			
Main plant area (example)	32W T8s w/electronic ballasts	40% of occupied ft <sup>2</sup>	4 years

Outline the current control strategies of the facility’s HVAC and lighting systems.

Strategy	Description
<b>Cooling Equipment</b>	
What is the operating schedule of major cooling equipment?	
What is the chilled water supply temperature set point?	
What is the condenser water set point? Is it reset?	
Are there VFDs on the cooling tower fans?	
Describe the cooling equipment staging strategy	
Describe the use of any air-side or water-side economizers	
<b>Air Handling Equipment</b>	
Does the HVAC system have an automatic shutdown?	
Is an optimum start/stop strategy used?	
Is the air distribution system VAV or CVU?	
Are the VAV boxes Fan Powered?	
For VAV systems, what is the supply static pressure set point?	
For VAV systems, is a supply static pressure reset strategy used? If yes, please indicate the strategy(ies) used.	
Are VAV terminal units DDC controlled through a global controller?	
Do the VAV terminal units’ DDC controllers have capability to be scheduled?	
Does the facility use a zone temperature setback/setup strategy?	
What is the supply air temperature set point during the summer?	
Is a supply air temperature reset strategy used? If yes, please indicate the strategy(ies) used.	
What type of reheat does the air distribution system have, if any?	
What is the heating energy source (e.g. gas, electric)?	
How is outdoor air intake controlled?	

SAMPLE  
DO NOT COMPLETE

Strategy	Description
What is the minimum outside air fraction setting?	
Is the system equipped with zone isolation devices for minimizing energy use in off-peak hours?	
Is there exhaust air heat recovery?	
<b>Lighting systems</b>	
Describe the lighting system controls and current scheduling	

What type of glazing is installed at the facility (e.g. single-pane tinted)?

---

Describe the age and availability of any as-built drawings and sequences of operation for the facility's HVAC system?

---

Summarize problems or opportunities for improvement that currently exist related to the HVAC and lighting systems.

---

Describe any opportunities for improved operation and maintenance procedures at the facility.

---

What is currently the most prominent issue related to operation of the HVAC and lighting systems, and how is it being managed?

---

What is the primary source of occupant complaints within the facility?

---

DO NOT COMPLETE

**Facility Compressed Air, Processing and Refrigeration System Information**

Complete this section only if your facility has compressed air systems, process equipment and/or refrigeration systems. Examples of these systems include, but are not limited to:

- Compressed Air Systems – Air compressor(s) and refrigerated air dryers that serve a manufacturing or process related activities.
- Process Equipment – Equipment such as conveyor lines, manufacturing equipment or equipment that; run continuously or for significant periods of time, have motors, and/or have specific heating/cooling requirements.
- Refrigeration Systems – Refrigeration equipment that is used to satisfy supply cooling requirements for food storage, manufacturing, or process equipment.

What are your primary objectives in managing your systems (check all that apply)?

Compressed Air	Process	Refrigeration	Objective
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Maintain continuous operation
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Improved or increased production
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Control and/or reduce energy use and costs
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reduce capital costs
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Meet process quality standards
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Improve safety
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reduce equipment maintenance
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other:

What management approaches and tools do you currently employ (check all that apply)?

Compressed Air	Process	Refrigeration	Resources
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Preventative diagnostic testing
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Short term monitoring
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Long term monitoring
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leak detection and repair
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tracking energy use/costs
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Improving control strategies
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Using life-cycle costing to select opportunities
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other:

What are the top two barriers to more effective operation of your facility’s systems?

Compressed Air	Process	Refrigeration	Barriers
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Not enough staff time
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lack of budget for efficiency improvements
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Capital expenses are too high
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Paybacks are too long
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Primary focus is on production
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lack of accountability for system energy costs
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lack of information about opportunities
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lack of in-house technical expertise
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lack of training
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Management approval
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other:

What influences you the most in terms of adopting new management tools or approaches (rank on a 1 to 10 scale, where 10 is high)?

Compressed Air	Process	Refrigeration	Influences
			Books
			Industry articles and professional publications
			Peers/Professional organizations
			Classes/continuing education
			Demonstrated success of others in the market
			Internal pilot program success
			Outside consultants
			Equipment vendors and manufacturer reps
			Other:

**Facility Compressed Air, Processing and Refrigeration System Information**

Complete this section only if applicable for the facility being submitted for consideration in the retrocommissioning program

Please list all air compressors that are currently located at your facility. In lieu of, or in addition to completing these tables, applicants can upload documents or equipment schedules containing the requested building information (i.e., Equipment ID, HP, Compressor Type, Capacity Control, Age Annual Operating Hours, etc.). Please follow the “upload project application document” instructions below.

Air Compressors					
Equipment ID/Manufacturer	HP	Compressor Type (E.g. Scroll, Screw, Reciprocating, Centrifugal)	Capacity Control Mode (E.g. Load/Unload, VFD, Inlet Modulation, Blow-off)	Age (years)	Annual Operating Hours
CNP 75588-750 (example)	150	Screw	Load/Unload	15	4,000
Dryers					
Equipment ID/Manufacturer	Type	Status (Op/standby)	Age (years)		
Dryer #1 (example)	Refrigerated	Operational			
Storage					
Equipment ID/Manufacturer	Size (Gallons)	Status (Op/standby)	Age (years)		
Reserve (example)	600	Operational	15 years		

Describe the compressed air system operating schedule at the facility.

What is the system pressure? Do you have trouble maintaining this pressure?

Describe the staging of the air compressors (e.g. manual, automatic, always on. etc.)

Is there a management system or manual procedure in place to shut compressors OFF sometimes? If so, do you think the system is properly tuned?

Are you willing to change your control strategy or usage of compressed air if recommended in the retrocommissioning study?

**Processing Equipment**

**Complete this section only if applicable for the facility being submitted for consideration in the retrocommissioning program:**

Please list all major processing equipment currently located at your facility (add more rows as necessary). In lieu of, or in addition to completing these tables, applicants can upload documents or equipment schedules containing the requested building information (i.e., Equipment, HP or kW, Average Loading, Status, Age, etc.) Please follow the “upload project application document instructions below.

Equipment Description/ID	HP or kW	Average Loading (% full capacity)	Status (Op/standby)	Age
300 ton Servo Press – SP1 (kard)	180 HP	50%	Operational	6 years

Describe the process equipment schedule at your facility.

What percentage of the facility electric use is attributable to operation of processing equipment?

Are there any current operational issues with your equipment?

**Refrigeration Equipment**

**Complete this section only if applicable for the facility being submitted for consideration in the retrocommissioning program**

Please list all major refrigeration equipment that is currently located at your facility (add more rows as necessary). In lieu of, or in addition to completing these tables, applicants can upload documents or equipment schedules containing the requested building information (i.e., Unit Description, Absorption Unit, Tons, Average Loading, Status, Age, etc.). Please follow the “upload project application document instructions below.

Unit Description/ID	Absorption Unit	Tons	Average Loading (% full capacity)	Status (Op/standby)	Age
Walk in cooler – RS60A	No	60	60-80%	Operational	8 years

SAMPLE  
DO NOT COMPLETE

Describe the loads served by equipment identified above.

---

Describe the temperature and pressure set points for the identified refrigeration equipment.

---

Outline the sequencing of refrigeration equipment at the facility.

---

Is floating head pressure control utilized?

---

Describe defrost schedules/controls for refrigeration equipment at the facility.

---

What type of capacity control does the refrigeration equipment have (e.g. hot gas bypass, VFDs, etc.)?

---

What percentage of the facility electric use is attributable to operation of the refrigeration equipment?

---

Is there an energy recovery system in place to capture waste heat?

---

**SAMPLE**  
**DO Not complete**

## Terms and Conditions

**Important:** This form is to be read, signed, and submitted with the Project Application.

SRP is implementing PowerWise Retrocommissioning Solutions to provide customers with technical services to improve energy-efficiency in qualifying SRP served facilities. The following terms and conditions apply to the program:

1. To qualify for the PowerWise Retrocommissioning Solutions program, the proposed facility must:
  - a. Be a SRP non-residential electric customer on a qualifying pricing plan.
  - b. Abide by the program rules and eligibility requirements in effect on the date of the submitted Project Application.
  - c. Provide a valid tax identification number.
2. Failure to provide any of the required information, including signatures, forms, or other requested documentation, will result in the return of the Project Application.
3. Customers will be limited to \$50,000 in rebates per project and \$200,000 total for technical support approved by April 30, 2012 through the FY12 PowerWise Retrocommissioning Solutions program, and an overall rebate cap of \$300,000 per customer from participation in all FY12 energy efficiency programs offered by SRP. SRP and its agents will not be responsible for any tax liability imposed on the customer as a result of the payment of rebates.
4. For the purposes of SRP's energy efficiency programs, a Customer is defined as a company or organization that receives electric service from SRP under an approved SRP price plan. A Customer is a holder of a single account, multiple accounts in aggregate or corporate accounts. Multiple accounts or corporate accounts with a single SRP customer identification number will be considered a single Customer. An organization of this type can participate in multiple efficiency programs, but will be subject to any applicable customer rebate caps. SRP retains the right to make final determination of customer eligibility.
5. SRP will submit to Customer the name(s) and address(es) of the Qualified Service Provider (QSP) that SRP recommends to provide the technical support services if the Project Application is approved. The final decision to proceed under the program and use of such persons will be subject to the approval of Customer.
6. Customer agrees to have its employees, design team, and contractors cooperate with SRP and the approved QSP to provide Facility operating data and energy use evaluation assistance needed by SRP for participation in the program, including allowing SRP to release standard 24-month usage history, including load interval data, for the account(s) identified on this application to the Program Administrator and approved QSP.
7. SRP reserves the right to inspect the facility for compliance with the program requirements. Inspection may include a telephone survey, site visit, and/or the installation of temporary monitoring equipment at any time up to two years after installation. Customers will allow SRP and their subcontractors reasonable access to and egress from site during normal business hours for inspection purposes. If selected for inspection, the rebate will be withheld pending outcome of the inspection. If the equipment is found to be in compliance with the program requirements, the rebate will be paid otherwise the customer will be notified.
8. SRP, Nexant, and program QSPs shall have no responsibility for the discovery, presence, handling, removal or disposal of, or exposure of persons to hazardous materials of any kind in connection with the Facility including, but not limited to, asbestos, asbestos products, PCBs, or other toxic substances.
9. Customer acknowledges that prior to proceeding to the Implementation Phase, a Retrocommissioning Plan Acceptance form including, but not limited to, the terms of the Customer's financial obligations is required.
10. Program procedures, requirements, and rebate levels are subject to change or cancellation without notice.
11. SRP makes no representations and provides no warranty or guaranty with respect to the accuracy or completeness of the provided technical support services.
12. Participation as a QSP does not constitute an endorsement by SRP, nor does it certify or guarantee the quality of work performed. SRP is not responsible if the QSP or other contractor, retailer, vendor or other party provides you with inaccurate information about the amount or conditions of the program.
13. In exchange for any approved equipment and/or service rebates for energy efficiency measures, the customer hereby sells, transfers and conveys to SRP all Environmental Attributes and Environmental Attributes Reporting Rights, as such terms are defined below, associated with the energy savings attributable to the qualifying measure(s) or its operation. "Environmental Attributes" means those aspects, claims, characteristics and benefits of avoided energy use associated with the measure(s), as

**Terms and Conditions, continued.**

well as any and all fuel, emissions, air quality, or other environmental characteristics, including, but not limited to, white and green energy tags, renewable energy credits, energy efficiency credits, carbon credits, or certificates attributable to the energy savings or avoided use associated with the qualifying measure(s). "Environmental Attributes Reporting Rights" means all rights to report ownership of the Environmental Attributes to any person or entity under Section 1605(b) of the Energy Policy Act of 1992, any successor or replacement statutes, or otherwise.

- 14. The terms and conditions set forth herein constitute a complete statement of the Terms and Conditions applicable to this promotion, and supersede all prior representations or understandings, whether written or oral. SRP shall not be bound by or be liable for any statement, representation, promise, inducement or understanding of any kind that is not set forth herein. SRP reserves the right to change or cancel this promotion or its terms and conditions at any time.

Under penalties of perjury, I hereby certify by my signature below that:

- I have read and understand all Terms and Conditions of this form and the customer eligibility, measure eligibility, and participation procedures for the PowerWise Retrocommissioning Solutions program in the Participant Program Manual.
- I certify as the building owner or the owner’s authorized representative that all the information contained within this application is true and factual.
- I am 1) providing a correct taxpayer identification number on this form, 2) not subject to backup withholding, and 3) am a US person (including US Resident Alien).
- If I have completed a fraudulent application or mistakenly receive an amount greater than I was authorized to receive, I will refund the money back to SRP.
- The undersigned applicant shall defend, protect, indemnify and hold harmless SRP, Nexant Inc., and their respective board members, officers, directors, managers, associates, related firms and entities, employees, servants, and agents (the “Indemnified Parties”) against all claims, losses, expenses, damages, demands, judgments, causes of action, suits, and liability of every kind and character whatsoever (“claims”) arising out of or incident to, or related in any way to, directly or indirectly, participation in PowerWise Retrocommissioning Solutions; provided however, that applicant shall not be required to indemnify and hold harmless any Indemnified Party member against claims adjudicated to have been caused by such party’s gross negligence or willful misconduct.
- As the signatory, I have the authority to submit the Project Application.
- By typing my name in the signature space below, I understand this is my electronic signature, and I agree this will represent the same as my handwritten signature.

Business Name \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Name (please print) \_\_\_\_\_

Title \_\_\_\_\_

**Application Checklist**

Before submitting this application please verify the following:

- Did you read and understand the eligibility requirements in the Program Manual?
- Are all required fields completed and accurate?
- Did you sign the Terms and Conditions Form?

**SEND COMPLETED PROJECT APPLICATIONS TO:**  
 SRP PowerWise Retrocommissioning Solutions  
 4802 E Ray Rd Ste 23, PMB192  
 Phoenix, AZ 85044-6417  
 Fax: (480) 345-7601  
 Email: [savewithsrpbiz@srpnet.com](mailto:savewithsrpbiz@srpnet.com)

## **Appendix B      Sample Retrocommissioning Plan Acceptance Form**

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A sample copy of the Retrocommissioning Plan Acceptance Form is provided in this appendix. This form will be completed by the Program Administrator upon completion of the Retrocommissioning Planning Phase for projects approved by SRP to proceed to the Implementation and Verification Phases of the program.



**Retrocommissioning Plan Approval**

**Important:** Receipt of this form indicates that the Retrocommissioning Planning Phase of SRP’s PowerWise Retrocommissioning Solutions has been completed and SRP has identified and recommended Retrocommissioning measures (“Recommended RCMs”) attached to this form to improve the efficiency of the Customer's use of electricity. Please sign and return this form by the stated deadline to proceed with the Implementation and Verification Phases.

**Customer:** \_\_\_\_\_

**Customer contact name:** \_\_\_\_\_

**Customer contact phone/email:** \_\_\_\_\_

**Facility address:** \_\_\_\_\_

**SRP account number(s):** \_\_\_\_\_

**Deadline for customer acceptance:** \_\_\_\_\_

**Terms and Conditions**

1. Definitions.

- 1.1. “Minimum Customer Implementation Commitment” shall mean the Customer’s commitment to implement a RCM Bundle with a minimum RCM Bundle Cost of \$10,000 and a simple payback of 2.0 years or less based upon electrical savings.
- 1.2. “Customer Selection Form” shall mean the document maintained by the QSP which summarizes the Recommended RCMs selected by the Customer for implementation.
- 1.3. “RCM Bundle” shall mean the selection of Recommended RCMs chosen by Customer and documented in the Customer Selection Form.
- 1.4. “Recommended RCMs” shall mean the individual Retrocommissioning measures that are recommended by the QSP.
- 1.5. “Recommended RCM Costs” shall mean reasonable market costs incurred by Customer (net of any discounts, rebates, rebates, or other consideration that reduces Recommended RCM Costs incurred by Customer) to purchase and implement Recommended RCMs at Customer's Facility by the Required Implementation Date. The Recommended RCM Costs will be stipulated in the Customer Selection Form.
- 1.6. “Required Implementation Date” shall mean the date which the customer completes the Minimum Customer Implementation Commitment. The Required Implementation Date is a mutually agreed upon and documented date between SRP and Customer. For this project, the Required Implementation Date is \_\_\_\_\_.

2. Customer Obligations

- 2.1. Provide access to the facility and time for facility personnel to interface with the QSP.
- 2.2. Provide and assist with the reporting and collection of information pertaining to the operation of the Facility.
- 2.3. Not later than the Required Implementation Date,
  - 2.3.1. Properly fulfill the Minimum Customer Implementation Commitment and,
  - 2.3.2. Provide SRP’s Program Administrator with written notification stating that all of the Recommended RCMs in the RCM Bundle are implemented and operational.
- 2.4. To the extent that SRP’s Program Administrator determines (in its sole discretion) that the Customer failed to fulfill the Minimum Customer Implementation Commitment, the Customer will repay SRP the Retrocommissioning Services costs of \$ \_\_\_\_\_.
- 2.5. Customer agrees that the Recommended RCMs specified will not be eligible for any SRP Rebates, Rebates, or Energy Engineering Services. Accordingly, the Customer shall not apply for any other SRP Rebates or Services with respect to these Recommended RCMs at any time before or after the Required Implementation Date.

- 2.6. Customer shall permit SRP's Program Administrator or SRP's QSP to inspect the existing conditions prior to the implementation of any Recommended RCM's.
- 2.7. Customer shall permit SRP's Program Administrator or SRP's QSP to inspect the fully implemented Recommended RCMs to determine if proper implementation of the Recommended RCMs has been completed at Customer's Facility and conduct the Verification Phase of the program.
3. SRP will provide, at no up-front cost to the Customer, Retrocommissioning Services as described in the Participant Program Manual in effect as of the date of this agreement which is available on the SRP website.
4. Customer shall independently evaluate any advice or direction given by SRP related to estimates of electricity savings or the cost, selection or implementation of RCMs. In no event will SRP, Nexant, and program QSPs be liable for the failure of Customer to achieve a specified amount of energy savings, the operation of Customer's facilities, or any incidental or consequential damages of any kind in connection with these terms and conditions or the implementation of Recommended RCMs.
5. SRP, Nexant, and program QSPs shall have no responsibility for the discovery, presence, handling, removal or disposal of, or exposure of persons to hazardous materials of any kind in connection with the Facility including, but not limited to, asbestos, asbestos products, PCBs, or other toxic substances.
6. Program procedures and requirements are subject to change or cancellation without notice.
7. SRP makes no representations and provides no warranty or guaranty with respect to the accuracy or completeness of the provided technical support services.
8. SRP and its agents will not be responsible for any tax liability imposed on the Customer as a result of the payment of rebates or services provided under this program.
9. Participation as a QSP does not constitute an endorsement by SRP, nor does it certify or guarantee the quality of work performed. SRP is not responsible if the QSP or other contractor, retailer, vendor or other party provides you with inaccurate information about the amount or conditions of the program.
10. Attorneys' Fees. If arbitration or litigation is commenced by either party to enforce or interpret any of the provisions of these terms and conditions, the prevailing party shall be entitled to recover reasonable costs and attorneys' fees at the arbitration, at trial, on appeal, and on any petition for review.
11. Disputes/Governing Law. These terms and conditions shall be exclusively governed by and interpreted in accordance with the laws of the state of Arizona. Any litigation between the parties shall be prosecuted only in the state or federal courts of the state of Arizona.
12. The terms and conditions set forth herein are in addition to those listed on the PowerWise Retrocommissioning Solutions Project Application.

**Customer Signature**

Under penalties of perjury, I hereby certify by my signature below that:

- I have read and understand all Terms and Conditions of this form and the customer eligibility, measure eligibility, and participation procedures for the PowerWise Retrocommissioning Solutions Participant Program Manual.
  - I agree to participate in PowerWise Retrocommissioning Solutions and wish to proceed with the Implementation and Verification Phases of the Retrocommissioning program. SRP’s supported activities will be performed by a Qualified Service Providers (QSPs) selected by the Program Administrator.
  - I have read and accept the obligations of program participants, including the commitment of at least \$10,000 to implement an RCM Bundle with a simple payback of 2.0 years or less based upon electrical savings.
  - I am 1) providing a correct taxpayer identification number, 2) not subject to backup withholding, and 3) am a US person (including US Resident Alien).
  - If I have completed a fraudulent application or mistakenly receive an amount greater than I was authorized to receive, I will refund the money back to SRP.
  - The undersigned applicant shall defend, protect, indemnify and hold harmless SRP, Nexant Inc., and their respective board members, officers, directors, managers, associates, related firms and entities, employees, servants, and agents (the “Indemnified Parties”) against all claims, losses, expenses, damages, demands, judgments, causes of action, suits, and liability of every kind and character whatsoever (“claims”) arising out of or incident to, or related in any way to, directly or indirectly, participation in PowerWise Retrocommissioning Solutions; provided however, that applicant shall not be required to indemnify and hold harmless any Indemnified Party member against claims adjudicated to have been caused by such party’s gross negligence or willful misconduct.
  - As the signatory, I have the authority to approve the Recommissioning Plan Approval.
- By typing my name in the signature space below, I understand this is my electronic signature, and I agree this will represent the same as my handwritten signature.

Business Name \_\_\_\_\_  
 Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Name (please print) \_\_\_\_\_  
 Title \_\_\_\_\_

DO NOT COMPLETE

**SEND COMPLETED RETROCOMMISSIONING PLAN APPROVAL FORMS TO:**

SRP PowerWise Retrocommissioning Solutions  
 PMB 192  
 4802 E Ray Rd Ste 23  
 Phoenix, AZ 85044-6417  
 Fax: (480) 345-7601  
 Email: [savewithsrpbiz@srpnet.com](mailto:savewithsrpbiz@srpnet.com)

**EXHIBIT A**

Retrocommissioning Plan

Cover Sheet Only  
Attach Report

**SAMPLE**  
**Do Not Complete**

SRP offers a range of energy efficiency opportunities to help non-residential customers save energy and money. Reduced energy costs, technical assistance, and/or incentives are available for qualifying customers. A summary of other available non-residential energy efficiency programs is provided below. Additional information regarding eligibility requirements, rebates, and participation processes is available at [www.savewithsrpbiz.com](http://www.savewithsrpbiz.com) or by contacting the Program Administrator.

### **PowerWise Standard Business Solutions**

The PowerWise Standard Business Solutions program promotes the purchase of industry-proven, high-efficiency equipment. Rebates serve to buy down the difference between the cost of high-efficiency and standard equipment, thereby making the high-efficiency equipment a more attractive option for customers. Rebates are available for qualifying lighting, HVAC, ECM motors, variable speed drive (VFD), compressed air, and refrigeration measures.

### **PowerWise Custom Business Solutions**

The PowerWise Custom Business Solutions program provides a comprehensive platform for cost-effective non-residential energy efficiency projects not addressed by the PowerWise Standard Business Solutions program. One of the primary goals of the program is to obtain verifiable, cost-effective and persistent electrical energy savings that result from the installation of energy efficiency measures.

In addition to equipment rebates, SRP offers eligible customers the opportunity to receive a preliminary and technical energy efficiency assessment performed by a Qualified Service Provider (QSP). Customers eligible for these assessments include those provided electricity on an E-60 services price plan, or with installed compressed air systems of 100 HP or larger. Under this program, these assessments assist customers in the identification and evaluation of potential energy efficiency improvements. Specifically, pre-approved preliminary assessments up to \$3,000 in cost will be funded by SRP to conduct an initial assessment of savings and economic potential of identified systems or projects. More in-depth pre-approved technical assessments, co-funded by SRP at a 50% match up to \$15,000 per customer per year, will provide specific measure details and estimates of costs, energy savings, and financial returns. The remaining eligible 50% cost of the technical assessment, up to \$15,000, will be paid by SRP for customers that submit an eligible Installation Notice for a measure(s) that meets the customer's minimum economic criteria for investment.

### **PowerWise Retrocommissioning Solutions**

PowerWise Retrocommissioning Solutions is designed to help customers achieve demand and energy savings in commercial and industrial facilities. Savings are realized through the systematic evaluation of facility systems and customer's implementation of cost-effective measures targeted to improve facility operation that, in many cases, also improve occupant comfort and production efficiency.

Program participants are commercial and industrial facility owners who have demonstrated a commitment to spend \$10,000 or more to implement identified retrocommissioning measures with an estimated total project simple payback of two years or less based upon electric savings.

### **PowerWise New Construction Solutions**

The New Construction Solutions program provides technical assistance and financial rebates to help architects, engineering professionals, and building owners optimize energy and demand savings, and reduce operating costs in commercial new construction projects.

The program employs a whole building performance-based strategy that fosters an integrated design approach with the project's design team starting during the project's conceptual phase. Early involvement combined with the comprehensive interaction of key project stakeholders affords the opportunity to cost-effectively evaluate and incorporate efficiency strategies while design components are still fluid. The program is designed to be scalable for projects of varying size and flexible to grow with customer needs.

**PowerWise Small Business Solutions**

The PowerWise Small Business Solutions program promotes the purchase of high-efficiency lighting in small commercial and industrial facilities. Free audits are available to qualifying customers to help identify lighting efficiency opportunities. Rebates are also available to pre-approved installation contractors to buy down the difference between the cost of high-efficiency lighting and standard lighting, thereby making the high-efficiency equipment a more attractive option for customers. Rebates are available for qualifying lighting measures.

A brief listing of energy efficiency resources available on the Web is provided below.

- Air Conditioning Contractors of America (ACCA). The ACCA is a non-profit organization representing HVAC contractors in the U.S. Current industry information and resources are available from their web site. ([www.acca.org](http://www.acca.org))
- Building Commissioning Association (BCA). The Building Commissioning Association (BCA) is an international non-profit organization that provides resources on commissioning and retrocommissioning. ([www.bcx.org](http://www.bcx.org))
- California Commissioning Collaborative (CCC). The CCC is made up of government, utility and building services organizations and professionals who have come together to create a viable market for building commissioning in California. ([www.cacx.org](http://www.cacx.org))
- Consortium for Energy Efficiency (CEE). CEE is a non-profit organization that develops national initiatives to promote the manufacture and purchase of energy-efficient products and services. ([www.cee1.org](http://www.cee1.org))
- Department of Energy – Energy Efficiency and Renewable Energy (EERE). EERE provides information for consumers on a wide range of energy efficiency topics. ([www.eere.energy.gov](http://www.eere.energy.gov))
- ENERGY STAR. ENERGY STAR is a government-backed program designed to help consumers increase their energy efficiency. ([www.energystar.gov](http://www.energystar.gov) and [www.energystar.gov/ia/business/BUM\\_recommissioning.pdf](http://www.energystar.gov/ia/business/BUM_recommissioning.pdf) )
- Motor Decisions Matter. Motor Decisions Matter is a nation program encouraging proper motor selection and management. The program is supported by a number of industry trade groups and orchestrated by the Department of Energy’s Office of Industrial Technologies. ([www.motorsmatter.org](http://www.motorsmatter.org))
- US Green Building Council (USGBC). USGBC is composed of more than 13,500 organizations from across the building industry that are working to advance structures that are environmentally responsible, profitable, and healthy places to live and work. ([www.usgbc.org](http://www.usgbc.org))

### **What is Retrocommissioning?**

Retrocommissioning is the systematic evaluation of facility systems and customer's implementation of cost-effective measures targeted to improve facility operation that, in many cases, also improve occupant comfort and production efficiency. The process is similar to commissioning a new facility or process, but is applied to existing equipment.

### **Why is Retrocommissioning important?**

Most buildings, including new ones, have not been properly commissioned to ensure the intended performance of key systems. In addition, in an effort to restore or maintain service, strategies may have implemented over time that do not address the underlying problem, often resulting in excess energy consumption.

### **What are the benefits of Retrocommissioning?**

While every facility has different needs and opportunities, common benefits of retrocommissioning activities include:

- Improved system operation: beyond preventive maintenance
- Improved equipment performance
- Increased O&M Staff Capabilities and Expertise
- Increased asset value
- Energy savings
- Improved Occupant Comfort
- Improved indoor environmental quality (IEQ)
- Improved building documentation

### **What is the rebate provided by PowerWise Retrocommissioning Solutions?**

Rebates available through PowerWise Retrocommissioning Solutions are “service-rebates” paid to the pre-approved Qualified Service Provider (QSP) to support the identification and verification of customer implemented retrocommissioning measures. Customers are responsible for contributing at least \$10,000 towards the implementation of mutually agreed to measures with a total project cost resulting in an estimated payback of less than two (2) years.

### **What if there are no Retrocommissioning opportunities at my facility – do I still have to pay \$10,000?**

The PowerWise Retrocommissioning Solutions application process will help to screen out facilities that may not be good candidates for retrocommissioning activities. However, customers are not required to commit to the minimum \$10,000 implementation budget until after completion of the Retrocommissioning Planning phase, at which time SRP will review with customers any measures identified and agree on the scope and timing of implementation activities.

### **Are there any rebate caps?**

There are three rebate caps are applicable to all customers and applications:

- Rebates cannot exceed \$50,000 for each approved project

- Total rebates disbursed through PowerWise Retrocommissioning Solutions to a single customer cannot exceed \$200,000 during the FY12 Program Year (May 1, 2011 through April 30, 2012)
- Total rebates through all of SRP's PowerWise Business Solutions to a single customer cannot exceed \$300,000 during the FY12 Program Year

For the purposes of SRP's energy efficiency programs, a customer is defined as a company or organization that receives electric service from SRP under an approved SRP price plan. A customer is a holder of a single account, multiple accounts in aggregate or corporate accounts. Multiple accounts or corporate accounts with SRP customer identification number will be considered a single customer. An organization of this type can participate in multiple efficiency programs, but will be subject to any applicable customer caps.

**Can customers with multiple facilities aggregate them together to meet minimum facility size requirements?**

Aggregation of multiple customer sites may be allowed in special circumstances (e.g. different facilities with the same floor plan and mechanical system, or campus-type locations served by a single central plant). Customers should contact the Program Administrator to discuss the eligibility of their facility before completing a Project Application if there are any questions.

**Are customers eligible to participate in SRP's other energy efficiency programs and PowerWise Retrocommissioning Solutions at the same time?**

Yes, but individual measures may only receive rebates under one program. Measures identified for implementation under PowerWise Retrocommissioning Solutions are **not** eligible for rebates under other program offerings.

**Where can I find out more about this program?**

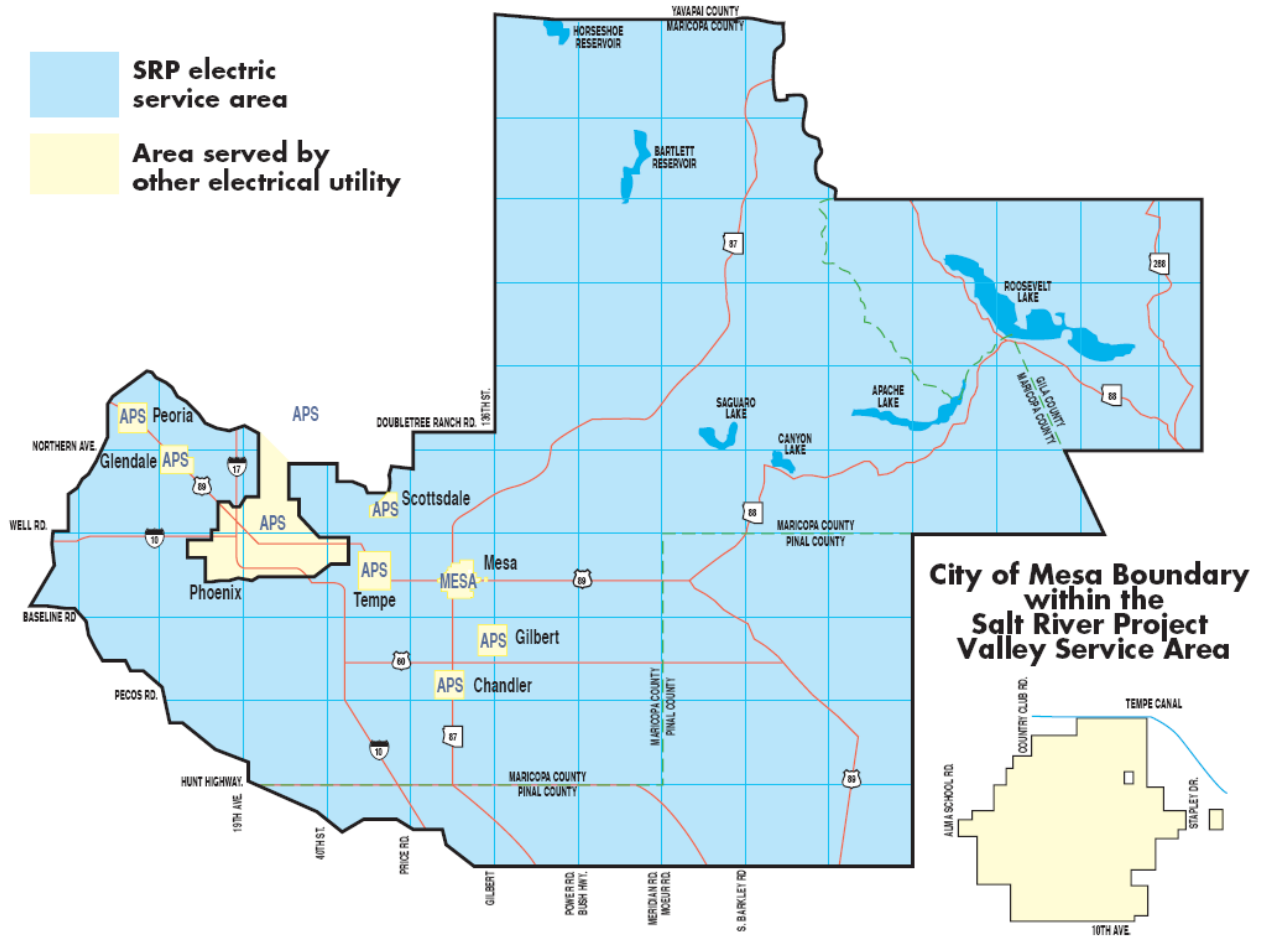
Customers can learn more about the PowerWise Retrocommissioning Solutions program and other SRP programs in the following ways:

- Web
  - [www.savewithsrpbiz.com](http://www.savewithsrpbiz.com)
- Telephone
  - Customer informational hotline: (602) 236-3054
- Fax
  - (480) 345-7601
- Email
  - Customer inquiries: [savewithsrpbiz@srpnet.com](mailto:savewithsrpbiz@srpnet.com)
  - Qualified Service Provider inquiries: [QSPSupport@srpnet.com](mailto:QSPSupport@srpnet.com)
- Mail
  - SRP PowerWise Retrocommissioning Solutions  
PMB # 192  
4802 E Ray Rd Ste 23  
Phoenix, AZ 85044-6417

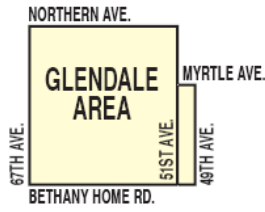
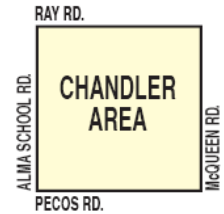
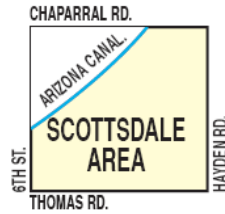
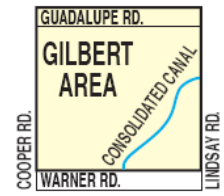
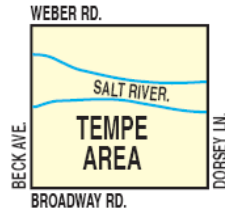
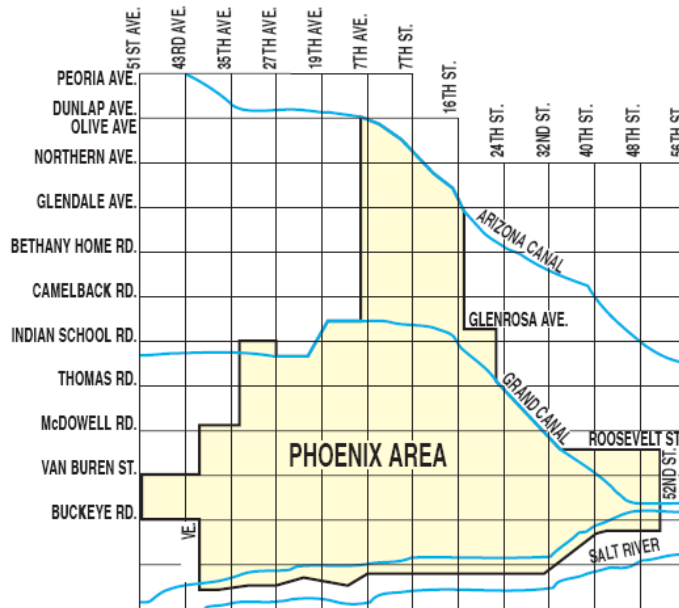
# Appendix F

# Service Territory Map

An illustration of SRP's service area is provided below. A more detailed map of SRP service area is available by contacting the Program Administrator.



## APS Boundaries within the Salt River Project Valley Service Area





Customer hotline: (602) 236-3054

Qualified Service Provider hotline: (602) 236-1611

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