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Arizona Corporation Commission  
**DOCKETED**

April 25, 2007

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

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RE: REVISED DSM SEMI-ANNUAL PROGRESS REPORT DOCKET NO. E-01345A-~~0~~0437

Dear Sir or Madam:

Enclosed is a revised version of Arizona Public Service Company's Demand Side Management ("DSM") Semi-Annual Report for the period from July 1, 2006 through December 31, 2006, which was originally filed on March 1, 2007. APS has recently identified that a correction is needed to the non-residential net benefit reported on Table 2, which also impacts Table 3 in the original filing.

Under the Company's DSM programs, schools can participate in the Schools Program and receive incentives to a maximum of \$25,000 from the Schools budget. If the incentive for a school's DSM installation exceeds \$25,000, the remaining incentive is paid from either the Existing Facilities, New Construction or Small Business programs. In the original report, the net benefit for school projects was overstated because the DSM measures that were installed by schools were inadvertently counted as part of both programs. APS has corrected this in its revised report, which results in a reduced non-residential net benefit of \$877,114. This is reflected in Table 2 and Table 3 in the revised report. Corrections to the sub-total amounts for Societal Benefits and Societal Costs in Table 2 were also made.

These changes do not affect the total of customers that benefited from the program, or any other information contained within the report. Please discard the report received on March 1, 2007 as we have provided the revised report in its entirety for your convenience.

If you or your staff have any question please feel free to call Jeff Johnson at (602) 250-2661.

Sincerely,

Barbara Klemstine

BAK/bec

Attachments

CC: Brian Bozzo  
Docket Control (Original, plus 13 copies)

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**REVISED**

**DSM SEMI-ANNUAL PROGRESS REPORT FOR PERIOD:  
JULY THROUGH DECEMBER 2006**

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

This progress report includes the following information for all APS Demand Side Management (DSM) programs that were in place during this reporting period, including programs for residential, non-residential and low income customers:

- A brief description of the program.
- Program modifications.
- Program goals, objectives, and savings targets.
- Programs terminated.
- The levels of participation.
- A description of evaluation and monitoring activities and results.
- kW and kWh savings.
- Benefits and net benefits, both in dollars, as well as Performance Incentive calculation.
- Problems encountered and proposed solutions.
- Costs incurred during the reporting period disaggregated by type of cost, such as administrative costs, rebates, and monitoring costs.
- Findings from all research projects.
- Other significant information.

Summary pages detailing the program expenses and DSM Electric Savings Benefits are provided in Tables 1 and 2. The Performance Incentive Calculation is shown in Table 3. A summary of 2006 DSM program expenses is provided in Table 4.

ARIZONA PUBLIC SERVICE COMPANY

DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD:  
JULY THROUGH DECEMBER 2006

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# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

**Table 1**  
**DSM Program Expenses: July – December 2006**

DSM Program	Rebates & Incentives	Training & Technical Assistance	Consumer Education	Program Implementation <sup>1</sup>	Program Marketing	Planning & Admin	Program Total Cost	
<b>Residential</b>								
Low Income	\$266,396	\$2,819	\$1,580	\$36,589	\$4,557	\$30,251	\$342,193	
Res Existing Homes HVAC	\$439,400	\$34,668	\$89,295	\$51,640	\$215,652	\$17,354	\$848,009	
Res New Home Construction	\$44,778	\$57,022	\$6,294	\$28,247	\$164,354	\$38,078	\$338,773	
Consumer Products	\$1,082,965	\$0	\$1,582	\$123,744	\$107,812	\$43,805	\$1,359,908	
<b>Totals for Residential</b>	<b>\$1,833,539</b>	<b>\$94,510</b>	<b>\$98,750</b>	<b>\$240,219</b>	<b>\$492,376</b>	<b>\$129,488</b>	<b>\$2,888,881</b>	
<b>Non-Residential</b>								
Large Existing Facilities	\$759,971	\$2,446	\$4,531	\$516,969	\$7,826	\$48,290	\$1,340,033	
Large Non Res New Const	\$62,480	\$3,072	\$1,957	\$649,501	\$7,712	\$50,840	\$775,562	
Small Business	\$62,240	\$0	\$1,471	\$356,283	\$6,955	\$26,804	\$453,752	
Bldg Operator Training	\$0	\$17,910	\$0	\$10,757	\$4,360	\$1,186	\$34,213	
Energy Information Svcs	\$0	\$0	\$0	\$12,971	\$0	\$10,094	\$23,065	
Schools <sup>2</sup>	\$73,380	\$0	\$143	\$77,126	\$416	\$10,619	\$161,684	
<b>Total for Non-Residential</b>	<b>\$958,071</b>	<b>\$23,428</b>	<b>\$8,100</b>	<b>\$1,623,607</b>	<b>\$27,269</b>	<b>\$147,834</b>	<b>\$2,788,309</b>	
<b>Segment Totals</b>	<b>\$2,791,610</b>	<b>\$117,937</b>	<b>\$106,851</b>	<b>\$1,863,826</b>	<b>\$519,645</b>	<b>\$277,321</b>	<b>\$5,677,191</b>	
							<b>Program Costs</b>	<b>\$5,677,191</b>
							<b>Measurement, Evaluation, &amp; Research (MER)</b>	<b>\$327,614</b>
							<b>Performance Incentive<sup>3</sup></b>	<b>\$1,938,767</b>
							<b>TOTAL</b>	<b>\$7,943,572</b>

### **Definitions**

**Rebates & Incentives** - Includes dollars that go toward customer rebates and incentives, installation of low income weatherization and low income bill assistance.

**Training & Technical Assistance** - Includes all dollars that are used for energy efficiency training and technical assistance.

**Consumer Education** - Includes dollars that are used to support general consumer education about energy-efficient improvements.

**Program Implementation** - Program delivery costs associated with implementing the program - includes implementation contractor labor and overhead costs, as well as other direct program delivery costs.

**Program Marketing** - Includes all expenses related to marketing the program and increasing DSM consumer awareness (direct program marketing costs as opposed to general consumer education).

**Planning and Administration** - APS costs to plan, develop and administer programs-includes management of program budgets, oversight of the RFP process and implementation contractor, program development, program coordination and general overhead expenses.

**Measurement, Evaluation, & Research (MER)** -These activities will identify current baseline efficiency levels and the market potential of DSM measures, perform process evaluations, verify that energy-efficient measures are installed, track savings, and identify additional energy efficiency research.

**Performance Incentive** – Share (%) of DSM net economic benefits (benefits minus cost), capped at 10% of total DSM expenditures, inclusive of the Performance Incentive.

*1 Includes costs for Implementation Contractor (IC) for the Small Non-Residential, Non-Residential Existing Facilities, New Construction & Major Renovation and Schools Programs.*

*2 Schools are allowed to receive funding from other non-residential programs as well. Refer to the subsection on the Schools Program for additional information on total funds allocated to school districts to date.*

*3 The Performance Incentive is calculated in Table 3 and the methodology/calculation is pending ACC approval.*

**ARIZONA PUBLIC SERVICE COMPANY**

**DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD:  
JULY THROUGH DECEMBER 2006**

**Table 2  
DSM Electric Savings Benefits**

<b>DSM Program</b>	<b>Capacity Savings MW</b>	<b>Lifetime<sup>1</sup> MWh Savings</b>	<b>Program Cost</b>	<b>Societal Benefits</b>	<b>Societal Costs</b>	<b>Net Benefits</b>
<b>Residential</b>						
Low Income <sup>2</sup>	0.06	415	\$342,193	\$269,405	\$269,405	\$0 <sup>4</sup>
Res Existing Homes HVAC <sup>3</sup>	2.15	79,236	\$848,009	\$3,122,648	\$2,065,915	\$1,056,733
Res New Home Construction <sup>3</sup>	0.12	5,653	\$338,773	\$211,581	\$342,595	(\$131,014)
Consumer Products	9.85	346,637	\$1,359,908	\$20,336,848	\$4,332,147	\$16,004,701
<b>Totals for Residential</b>	<b>12.18</b>	<b>431,941</b>	<b>\$2,888,883</b>	<b>\$23,940,482</b>	<b>\$7,010,062</b>	<b>\$16,930,420</b>
<b>Non-Residential</b>						
Large Existing Facilities	1.83	173,830	\$1,340,033	\$4,220,926	\$1,985,234	\$2,235,692
Large Non Res New Const	0.15	19,929	\$775,562	\$478,917	\$642,881	(\$163,964)
Small Business	0.12	10,274	\$453,752	\$144,381	\$440,781	(\$296,400)
Bldg Operator Training	0.03	3,983	\$34,213	\$135,961	\$54,103	\$81,858
Energy Information Svcs	0.00	0	\$23,065	\$0	\$23,065	(\$23,065)
Schools	0.13	13,291	\$161,685	\$259,858	\$186,228	\$73,630
<b>Total for Non-Residential</b>	<b>2.26</b>	<b>221,307</b>	<b>\$2,788,310</b>	<b>\$5,240,043</b>	<b>\$3,332,292</b>	<b>\$1,907,751</b>
<b>Subtotal</b>	<b>14.44</b>	<b>653,248</b>	<b>\$5,677,193</b>	<b>\$29,180,525</b>	<b>\$10,342,354</b>	<b>\$18,838,171</b>
Measurement, Evaluation & Research	-	-	\$327,614	-	-	(\$327,614)
Performance Incentive <sup>5</sup>			\$1,851,056			\$1,851,056
<b>TOTAL</b>			<b>\$7,855,863</b>			<b>\$20,361,613</b>

1 Refers to savings over the expected lifetime of all program measures.

2 Program Costs include weatherization and bill assistance. Societal Costs do not include bill assistance because it does not contribute to electric savings.

3 kW and kWh savings are not quantified for residential market transformation programs that were in place prior to April 2006.

4 Consistent with the ACC Staffs' analysis in Decision No. 68647, the societal benefits is equal to the societal costs, resulting in a benefits to cost ratio of 1.00.

5 As calculated in Table 3.

**ARIZONA PUBLIC SERVICE COMPANY**

**DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD:  
JULY THROUGH DECEMBER 2006**

**Table 3  
Performance Incentive Calculation**

DSM Program	July - Dec 2006	Program to Date	
	Net Benefit	Net Benefit	10% Share
<b>Residential</b>			
Res Existing Homes HVAC	\$ 1,056,733	\$ 322,360	\$ 32,236
Res New Home Construction	\$ (131,014)	\$ (597,429)	\$ (59,743)
Consumer Products	\$ 16,004,701	\$ 26,040,909	\$ 2,604,091
<b>Non-Residential</b>			
Large Existing Facilities	\$ 2,235,692	\$ 1,821,287	\$ 182,129
Large Non Res New Construction	\$ (163,964)	\$ (641,944)	\$ (64,194)
Small Business	\$ (296,400)	\$ (550,710)	\$ (55,071)
Bldg Operator Training	\$ 81,858	\$ 99,398	\$ 9,940
Energy Information Svcs	\$ (23,065)	\$ (30,173)	\$ (3,017)
Schools	\$ 73,630	\$ (9,080)	\$ (908)
<b>Subtotal</b>	<b>\$ 18,838,171</b>	<b>\$ 26,454,618</b>	<b>\$ 2,645,462</b>
Measurement, Evaluation & Research	\$ (327,614)	\$ (891,090)	\$ (89,109)
<b>Total</b>	<b>\$ 18,510,557</b>	<b>\$ 25,563,528</b>	<b>\$ 2,556,353</b>
	Performance Incentive earned from July 2005 thru June 2006		\$ 705,297
		Performance Incentive due to APS for this reporting period <sup>1</sup>	\$ 1,851,056

*1 Performance incentive earned to date is subtracted from the total "program to date" 10% share of net benefits to arrive at the amount of performance incentive earned for this period.*

*This calculation does not include the Low Income Program. As per Staff's analysis in Decision 68647, the net benefits for this program are \$0.*

*Maximum Performance Incentive allowed is 10% of the spending level as ordered in Decision No. 67744. This is \$4.8 million over the three-year period. Approval of the incentive calculation is pending ACC approval.*

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **PROGRAM: ENERGY WISE LOW INCOME WEATHERIZATION**

#### **Description**

APS' Energy Wise Low Income Assistance Program is designed to improve the energy efficiency, safety and health attributes of homes for customers whose income falls within the defined federal poverty guidelines. This program serves low income customers with various home improvements including cooling system repair and replacement, insulation, sunscreens, water heaters, window repairs and improvements as well as other general repairs. In addition, low income families are provided crisis bill assistance. The program is administered by various community action agencies throughout APS' service territory.

#### **Program Modifications**

No modifications for this reporting period.

#### **Program Goals, Objectives, and Savings Targets**

- To improve the energy efficiency of homes for customers whose income falls within the defined poverty guidelines.
- To provide customers information on energy management and conservation.
- To provide assistance in paying the electric bill for qualified customers in crisis situations.
- Decision No. 68647 estimates that the Weatherization component of the Energy Wise Program serves 382 homes per year (based on APS' budget) and would result in reduced energy consumption of 763 MWh per year and a demand reduction of 115 kW per year.

#### **Programs Terminated**

No programs were terminated during this reporting period.

#### **Levels of Participation**

A total of 459 households received assistance during the reporting period, July through December 2006 and is broken down as follows:

Type of Assistance	Number of Households
Bill Assistance	270
Health and Safety	0
Repair and Replace	25
Weatherization	164
<b>Total</b>	<b>459</b>

#### **Evaluation and Monitoring Activities and Results**

Weatherization measures must pass the cost effectiveness test that is detailed in the federal government's Weatherization Assistance Program (WAP) rules. These rules allow certain prescriptive measures which vary with the climate zone and type of housing construction. Measures not on the prescriptive list must be assessed by a computer analysis to determine the economic feasibility.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

The Department of Commerce Energy Office with information from APS, is analyzing the electric energy used in weatherized homes before and after the weatherization measures are implemented. It takes a year of data before the weatherization and another year of data after the weatherization to get an accurate gauge of the impact of the measures. As the data base grows over time a more accurate picture of the impact of the weatherization activities will emerge.

### **kW and kWh Savings**

Of the 459 households participating in the program, a total of 189 homes received weatherization and/or repair & replace services that contributed to the energy savings.

No. of Homes	kW Savings	kWh Savings
189	62.26	414,629

The final savings are adjusted for line losses (9.8%).

The kW and kWh factors used to calculate the savings are based on data from the Department of Commerce Energy Office study of 150 weatherized homes. The study normalized electric and gas savings into dollars with gas savings being about 10% of the total. The present value of the dollar savings was converted to "equivalent kWh" at 8 cents per kWh. The annual energy and demand savings per home in this study are estimated to be 1,998 "equivalent kWh" and 0.3 kW.

### **Benefits and Net Benefits/Performance Incentive Calculation**

The benefits and net benefits are provided in Table 2. The Performance Incentive calculation does not include the Energy Wise Program since this program has a zero net benefit and APS should not be penalized for performing well on this program. Consequently, the net benefits for the Energy Wise Program for this reporting period as shown in Table 2 are \$0.

### **Problems Encountered and Proposed Solutions**

No problems were encountered during this reporting period.

### **Costs Incurred**

Costs incurred for this program during the current reporting period are listed below:

Activity	Rebates & Incentives	Training & Technical Assistance	Consumer Education	Program Implement	Program Marketing	Planning & Admin	Program Total Cost
Bill Assistance	\$72,788	-	-	-	-	-	\$72,788
Health & Safety	\$0	-	-	-	-	-	\$0
Repair and Replace	\$44,856	-	-	-	-	-	\$44,856
Weatherization	\$148,753	-	\$915	-	-	-	\$149,668
3rd Party Manager Arizona Community Action Association	-	-	-	\$29,162	-	-	\$29,162
APS Program Support	-	\$2,819	\$665	\$7,427	\$4,557	\$30,251	\$45,719
<b>Total</b>	<b>\$266,396</b>	<b>\$2,819</b>	<b>\$1,580</b>	<b>\$36,589</b>	<b>\$4,557</b>	<b>\$30,251</b>	<b>\$342,193</b>

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **Findings From All Research Projects**

APS is currently completing work on a DSM Baseline and Market Potential study that was approved in Decision No. 67816. A final report is expected to be completed in the first quarter of 2007.

### **Other Significant Information**

A contract to fund weatherization activities on the reservations served by APS that are under the jurisdiction of the Inter Tribal Council of Arizona has been signed. Contract negotiations with the Navajo Nation to fund weatherization activities on the Navajo Nation where APS provides service are in process.

2,000 Compact Fluorescent Lights ("CFLs") from the Consumer Products program were provided to the Community Action Agencies participating in the Energy Wise Low Income Weatherization program for distribution to low income households within the APS service territory as part of the weatherization service.

To promote weatherization projects for multifamily housing, APS has been actively encouraging partnerships between the community action agencies providing the weatherization and public housing authorities in conjunction with the federal Housing and Urban Development (HUD) agency. On August 30<sup>th</sup>, in conjunction with HUD, we presented information about the program to several public housing authorities including the Chandler Housing Authority and the Yuma Housing Department, encouraging them to partner with their local community action agency to weatherize their low income housing stock. There were subsequent presentations on November 7<sup>th</sup> and November 14<sup>th</sup>. A direct outcome of these efforts was the partnering between the Maricopa County Human Services Department and the Housing Authority of Maricopa County to weatherize 20 units in Buckeye.

Additional marketing efforts include presenting information about the weatherization program at the monthly meeting of the Hopi Community Service Advocates in Tuba City on December 21st. Information about the Energy Wise Low Income Weatherization Program was also presented to a variety of agencies at the following APS Low Income Summits:

- September 29<sup>th</sup>, Tempe
- October 19<sup>th</sup>, Globe
- October 24<sup>th</sup>, Casa Grande
- November 1<sup>st</sup>, Avondale

Presentations were also made to the American Association of Retired Persons on October 24<sup>th</sup> in Phoenix and at the Focus on Emergency Assistance Workshop at the Glendale Unified School District on December 8<sup>th</sup>.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **PROGRAM: RESIDENTIAL EXISTING HOMES HVAC**

#### **Description**

The residential existing home HVAC program promotes energy-efficient equipment and proper installation and maintenance of residential heating and air conditioning systems. The program provides training and technical assistance for HVAC contractors and education for consumers about the benefits of energy-efficient heating and cooling systems. Through the APS Qualified Contractor program, APS provides customer referrals to contractors who meet strict program requirements for professional standards, technician training and customer satisfaction.

The AC Rebate program builds on the existing APS Qualified Contractor program, and offers financial incentives to encourage upgrades to high-efficiency equipment ( $\geq 14$  SEER/12 EER) that exceeds US EPA/DOE Energy Star® energy-efficiency standards.

#### **Program Modifications**

No modifications for this reporting period.

#### **Program Goals, Objectives and Savings Targets**

This program uses a combination of financial incentives, contractor training and consumer education to promote high efficiency HVAC systems in existing residential homes within the APS service territory.

Prior to April 2006, this program was a market transformation effort with long term goals to improve the market for energy-efficient HVAC systems by reducing market barriers to adoption of greater efficiency levels. As such, the program offered no rebates or incentives and kW and kWh savings were not tracked. In April 2006, Decision No. 68648 approved a new program which builds upon the existing market transformation education and training efforts, and adds rebates for high efficiency AC equipment, quality installation, and HVAC system diagnostics and repair. Savings will be tracked for this program.

According to ACC Staff's analysis of the new program for three years, the energy-efficiency savings expected to result from the HVAC Efficiency Program could provide about \$1.4 million in net benefits and could reduce annual peak demand by about 4.2 MW and energy consumption by about 173,000 MWh over the life of the measures.

#### **Programs Terminated**

No programs were terminated during this reporting period.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### Levels of Participation

In the second half of 2006:

- Rebates for high efficiency AC equipment were rolled out to customers on June 1, 2006. During this reporting period, a total of 1,379 rebates were paid in the High Efficiency AC Rebate program, including 748 of the \$250 rebates for 14 SEER/12 EER equipment and 631 of the \$400 rebates for 16 SEER/14 EER equipment.
- There are currently 52 contractors participating in the APS Qualified Contractor program. According to Arizona Heat Pump Council estimates, participating contractors make more than 150,000 household visits annually within the APS service territory.
- Approximately 300 HVAC technicians participated in APS sponsored training courses in order to meet APS Qualified Contractor program training requirements.
- APS provided over 5,400 referrals to customers seeking HVAC service, repair or replacement of their home HVAC system.
- APS distributed two issues of the Southwestern Home Journal with a total reach of more than 250,000 customers. The Journals included articles about home energy efficiency, including the benefits of AC system maintenance and why it is important to select a qualified professional contractor.
- There were more than 6,920 unique user visits to the APS Energy Survey home energy audit at [aps.com](http://aps.com).

### Evaluation and Monitoring Activities and Results

On April 12, 2006 in Decision No. 68648, the ACC approved funding for Measurement, Evaluation, and Research (MER) activities to assist in verifying the impact and cost effectiveness of APS' DSM programs. APS selected Summit Blue Consulting to conduct program MER activities. Summit Blue Consulting is currently working with APS to develop program research plans. The program research plans will be submitted for Staff review when completed.

Other evaluation activities for this program during this reporting period include the development of survey instruments to be used in collecting feedback from HVAC contractors and customers who participate in the AC Rebate program. In addition, the MER contractor began conducting on-site field verification activities on a randomly drawn sample of HVAC installations that received rebates to verify equipment installations.

### kW and kWh Savings

Type Of Unit	# Units	Annual kWh Savings per Ton	Avg Tons/Unit	TOTAL Annual MWh Savings	Est Measure Life	Total Lifetime MWh	kW Demand Savings Per Ton	Total MW Savings
14 SEER/12 EER	748	804	4	2,641	15	39,620	0.339	1.11
16 SEER/14 EER	631	953	4	2,641	15	39,616	0.376	1.04
<b>TOTAL</b>	<b>1,379</b>			<b>5,282</b>		<b>79,236</b>		<b>2.15</b>

The final savings are adjusted for line losses (9.8%).

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

In addition to the savings shown above, the Residential Existing Homes HVAC program includes a number of market transformation efforts such as contractor training and customer education activities designed to transform the market for energy efficiency. These elements of the program produce additional energy savings and benefits that are not quantified.

### Benefits and Net Benefits/Performance Incentive Calculation

The benefits and net benefits are provided in Table 2. The details for the Performance Incentive Calculation are provided in Table 3.

### Problems Encountered and Proposed Solutions

APS, contractors and customers have all had more difficulty than expected with obtaining EER efficiency levels from AC manufacturers and refrigeration industry data sources.

To address the situation, extensive work has been conducted to re-examine savings and peak demand impacts, incremental cost and other inputs to the societal cost test analysis. The results of the analysis are being used to restructure the program efficiency levels to better align the EER requirement with the energy efficiency tier levels that have been established in the ARI/CEE database or to drop the EER requirement entirely from the program. APS will submit an analysis to Staff with proposed modifications to the program efficiency requirements for approval.

### Costs Incurred

Costs incurred for this program during the current reporting period are listed below:

DSM Program	Rebates & Incentives	Training & Technical Assistance	Consumer Education	Program Implement	Program Marketing	Planning & Admin	Program Total Cost
Res Existing HVAC	\$439,400	\$34,668	\$89,295	\$51,640	\$215,652	\$17,354	\$848,009

### Findings from all Research Projects

APS is currently completing work on a DSM Baseline and Market Potential study that was approved in Decision No. 67816. A final report is expected to be completed in the first quarter of 2007.

### Other Significant Information

APS is working with key partners on infrastructure needed to roll out the quality install and diagnostics measures that were approved in April 2006.

For the quality install measure, APS is working to expand the reach of the APS Qualified Contractor program outside the metro area so that customers outside of metro can take advantage of the quality install incentive. APS has scheduled a special 2-day intensive training seminar and qualification exams to allow contractors from outside the metro area to conveniently achieve the training required to participate in the Qualified Contractor program. The first training seminar will be held March 1-2, 2007. APS has been working with the Electric League of Arizona to implement the training and market the program to contractors outside of the metro area, including a direct mail campaign and advertising in the HVACR Today trade newspaper.

## ARIZONA PUBLIC SERVICE COMPANY

### DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

For diagnostic testing and repair, APS is currently working with the EPA Energy Star program, the Arizona Department of Commerce Energy Office, the Building Performance Institute ("BPI") and the non-profit Foundation for Senior Living to offer BPI certification for contractors who offer home performance testing and repair. APS is working with the EPA to be able to market the program to customers as "Home Performance with Energy Star". The "Home Performance with Energy Star" program is a new EPA program being used to promote diagnostic testing and efficiency improvements to existing homes.

Marketing and consumer/contractor education efforts for this program during the reporting period include:

- Monthly ad placements in HVACR Today newspaper targeted to the HVAC industry. The ads promote the new APS High Efficiency AC Rebate program to contractor and manufacturer/distributor trade allies.
- Articles in June/July and October/November 2006 APS Lifestyles residential customer newsletter.
- Hot News on homepage of aps.com.
- Print ad placements to promote the AC Rebate program to APS customers in the Arizona Republic, Buckeye Valley News, and the Phoenix Business Journal.
- Article in the October issue of the Southwestern Home Journal, an insert in the Arizona Republic delivered to 250,000 households.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **PROGRAM: RESIDENTIAL NEW HOME CONSTRUCTION**

#### **Description**

This program promotes high efficiency construction practices for new homes. It offers incentives to builders who meet program energy efficiency standards. The program emphasizes the whole building approach to improving energy efficiency and includes field testing of homes to ensure performance. Participating builders are trained to apply building science principles to assure that high-efficiency homes also have superior comfort and performance. The program also provides education for prospective homebuyers about the benefits of choosing an energy-efficient home and the features to consider.

On July 1, 2006 APS introduced the new APS Energy Star Homes program to homebuilders. The new program builds on the prior APS residential new construction market transformation program (Performance Built Homes) and updates the program to the new more stringent 2006 EPA Energy Star Homes program standards. The program also takes advantage of the national Energy Star brand name, and promotes the EPA/DOE Energy Star label to prospective homebuyers. To encourage builders to meet the program's high efficiency standards, APS provides builder incentives of \$400 per home. The new program retains the builder training and consumer and Realtor education efforts that were elements of the prior market transformation program.

#### **Program Modifications**

No modifications for this reporting period.

#### **Program Goals, Objectives and Savings Targets**

The program objective is to increase the penetration of homes built to high efficiency standards. The rationale for this program is that residential new construction in the APS service territory, particularly the Phoenix metro area, is one of the biggest drivers of APS' system load growth. It is more cost-effective to work with builders to implement energy efficiency at the time of construction rather than attempt to retrofit efficiency after a home has been built. For many new home measures such as building envelope improvements, the benefits of energy efficiency upgrades will be sustained for the life of the home to produce very cost-effective savings.

According to ACC Staff's analysis of the new program for three years, the energy-efficiency savings expected to result from the New Construction Program could provide about \$9.0 million in net benefits and could reduce annual peak demand by about 13.4 MW and energy consumption by about 380,000 MWh over the life of the measures.

#### **Programs Terminated**

No programs were terminated during this reporting period.

#### **Levels of Participation**

APS Energy Star Homes program was kicked off to builders July 1, 2006. During this reporting period, APS signed up 16,940 homes to participate in the program. At the end of the reporting period, there were 12 homebuilders and 68 subdivisions participating in the program. All of the participating homebuilder communities are anticipated to start construction by the end of 2007.

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During the reporting period, APS paid homebuilder incentives for 81 APS Energy Star homes that were completed during the period.

APS sponsored a one-day building science training for northern Arizona homebuilders that was conducted by the Energy and Environmental Building Association ("EEBA") at Yavapai Community College in August.

In September, APS sponsored building science training with national expert John Tooley from Advanced Energy Corp. Over 5 days of training, over 265 members of the homebuilding industry attended the full-day building science course.

**Evaluation and Monitoring Activities and Results**

On April 12, 2006 in Decision No. 68648, the ACC approved funding for Measurement, Evaluation, and Research (MER) activities to assist in verifying the impact and cost effectiveness of APS' DSM programs. APS selected Summit Blue Consulting to conduct program MER activities. Summit Blue Consulting is currently working with APS to develop program research plans. The program research plans will be submitted for staff review when completed.

Other evaluation activities for this program during this reporting period include the development of a survey instrument to be used in collecting feedback from builders who participate in the program and development of a preliminary design for the Residential New Construction Program tracking database.

**kW and kWh Savings**

Measure	# Homes completed	Annual kWh Savings per Home	TOTAL Annual MWh Savings	Est Measure Life (yrs)	TOTAL Lifetime MWh	kW Demand Savings Per Home	TOTAL MW Savings
APS Energy Star Homes	81	3,178	283	20	5,653	1.344	0.12

The final savings are adjusted for line losses (9.8%).

In addition, program consumer education and homebuilder training efforts produce significant additional energy savings and benefits that are not quantified here.

**Benefits and Net Benefits/Performance Incentive Calculation**

The benefits and net benefits are provided in Table 2. The details for the Performance Incentive calculation are provided in Table 3.

**Problems Encountered and Proposed Solutions**

No problems encountered.

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### Costs Incurred

Costs incurred for this program during the current reporting period are listed below:

DSM Program	Rebates & Incentives	Training & Technical Assistance	Consumer Education	Program Implement	Program Marketing	Planning & Admin	Program Total Cost
Res New Home Construction	\$44,778	\$57,022	\$6,294	\$28,247	\$164,354	\$38,078	\$338,773

### Findings from all Research Projects

APS is currently completing work on a DSM Baseline and Market Potential study that was approved in Decision No. 67816. A final report is expected to be completed in the first quarter of 2007.

### Other Significant Information

Program marketing efforts during this reporting period include the following advertising placements:

- (Jul-Dec) Arizona New Homes and Lifestyles – (magazine targeted to prospective homebuyers).
- (Jul-Dec) New Home Directory – (resource guide for Realtors).
- (Jul-Dec) Homestore.com/Move.com – (website for Realtors and homebuyers).
- (Jul-Dec) Builder magazine – (targeted to homebuilders).
- Information on aps.com.
- Homebuilder model home point of sale materials – Energy Cost Brochures, Sales agent booklet to describe Energy Star Homes features.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **PROGRAM: CONSUMER PRODUCTS PROGRAM**

#### **Description**

This program promotes high-efficiency EPA/DOE Energy Star® compact fluorescent lamps (CFLs). CFLs use an average of 75% less energy than standard incandescent bulbs and last up to ten times longer, typically saving consumers more than \$25 in energy costs over the life of each bulb. The program offers discounts on CFLs at local retail locations through cooperative agreements with retailers and lighting manufacturers. This provides consumers with reduced retail prices for CFLs at local lighting retailers, with prices below \$0.99 per bulb.

#### **Program Modifications**

No modifications for this reporting period.

#### **Program Goals, Objectives and Savings Targets**

The program goals, objectives, and savings targets are identified in the Consumer Products program plan. According to the Staff Recommended Decision issued on July 25, 2005, the lighting portion of the Consumer Products program "would result in about \$20.8 million net benefits to society" over the lifetime of the measures installed thru the current program planning period (2005-2007).

#### **Programs Terminated**

No programs were terminated during this reporting period.

#### **Levels of Participation**

During the July to December reporting period, the program resulted in sales of 1,013,801 CFLs through participating retail locations. During the period, there were approximately 300 retail outlets throughout the APS service territory where APS customers can purchase discounted CFLs. Participating retailers during this reporting period include: Ace Hardware (select locations), AJs Fine Foods, AKA Green, Albertson's, Bashas, Big Lots, Costco, CVS, Food City, Home Depot, Lowe's, Osco Drug, True Value Hardware (select locations), Walgreens, Walmart.

#### **Evaluation and Monitoring Activities and Results**

On April 12, 2006 in Decision No. 68648, the ACC approved funding for Measurement, Evaluation, and Research (MER) activities to assist in verifying the impact and cost effectiveness of APS' DSM programs. APS selected Summit Blue Consulting to conduct program MER activities. Summit Blue Consulting is currently working with APS to develop program research plans. The program research plans will be submitted for staff review when completed.

Other evaluation activities for this program during this reporting period include the development of survey instruments to be used in collecting feedback from general consumers, program participants, and participating retailers. In addition, the MER contractor completed surveys of 35 program participants, completed visits to 38 participating retail locations to conduct participating retailer interviews, and completed a general population survey of 450 residential customers.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### kW and kWh Savings

Units	Wattage	Watts Saved	Hours Per Year	Est. Measure Life (yrs)	MWh Savings per Year	Lifetime MWh Savings	MW Demand Savings
2,184	9	16	1,000	5.5	38	211	7
2,184	11	29	1,000	5.5	70	382	12
485,507	13	47	1,000	5.5	25,055	137,803	4,259
181,650	14	46	1,000	5.5	9,175	50,461	1,560
22,216	14	51	1,000	5.5	1,244	6,842	211
74,533	15	50	1,000	5.5	4,092	22,505	696
10,735	15	45	1,000	5.5	530	2,917	90
2,184	17	43	1,000	5.5	103	567	18
2,900	18	57	1,000	5.5	181	998	31
49,266	20	55	1,000	5.5	2,975	16,363	506
67,710	23	67	1,000	5.5	4,981	27,396	847
106,732	23	77	1,000	5.5	9,024	49,631	1,534
6,000	26	74	1,000	5.5	488	2,681	83
1,013,801							
Indirect cooling energy savings				5.0 kWh/bulb/yr	5,069	27,880	
<b>Total Savings</b>					<b>63,025</b>	<b>346,637</b>	<b>9,854</b>

The final savings are adjusted for line losses (9.8%).

### Benefits and Net Benefits/Performance Incentive Calculation

The benefits and net benefits are provided in Table 2. The details for the Performance Incentive calculation are provided in Table 3.

### Problems Encountered and Proposed Solutions

No problems were encountered during this reporting period.

### Costs Incurred

Costs incurred for this program during the current reporting period are listed below:

DSM Program	Rebates & Incentives	Training & Technical Assistance	Consumer Education	Program Implement	Program Marketing	Planning & Admin	Program Total Cost
Consumer Products	\$1,082,965	\$0	\$1,582	\$123,744	\$107,812	\$43,805	\$1,359,908

### Findings from all Research Projects

APS is currently completing work on a DSM Baseline and Market Potential study that was approved in Decision No. 67816. A final report is expected to be completed in the first quarter of 2007.

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## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **Other Significant Information**

In recognition of the outstanding results from the Consumer Products program, APS has been selected by the US Environmental Protection Agency (EPA) as a 2007 Energy Star Partner of the Year Award Winner for Energy Efficiency Program Delivery. According to the EPA, "The applications submitted by partners this year were extremely competitive and your application exemplified Arizona Public Service's outstanding commitment and dedication to environmental protection through energy efficiency."

In addition to the bulb sales at retail locations, APS purchased a supply of 10,000 CFLs to use for the low income program and for customer education and awareness building purposes. Of these, 2,000 CFLs were provided to the Community Action Agencies participating in the Energy Wise Low Income Weatherization program for distribution to low income households within the APS service territory. Recent studies indicate there is low awareness of CFLs among low income households. A limited quantity of bulbs is also being provided for use in APS informational displays and for educational handouts at community events throughout the APS service territory.

The program conducted more than 600 retailer visits from July through December to provide retailer training, assess inventories of merchandise, check Point of Purchase displays, addressing availability of qualified product, and communicating with sales staff.

APS conducted extensive customer outreach efforts to promote the CFL program and educate customers. Consumer education events during the reporting period included:

- July 14 – Scottsdale, Lowe's
- July 29 – Prescott, True Value Hardware
- July 29 – Prescott, Home Depot
- August 4 – Yuma, Lowe's
- August 11 – Phoenix, Lowe's
- August 12 – Payson, Home Depot
- August 18 – Casa Grande, Home Depot
- August 24 – Avondale, Home Depot
- September 1 – Surprise, Lowe's
- September 9 – Sun City West, True Value
- September 23 – Glendale, Lowe's
- November 4 – Chandler, Home Depot

In addition, the program participated in a number of community events that were targeted to Hispanic customers including:

- September 16-17 – Phoenix, Alma de la Gente Fiestas Patrias
- October 28-29 – Phoenix, Expo Tu Casa

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For the annual national EPA "Change a Light, Change the World" campaign, APS helped get proclamations from both Governor Napolitano and Phoenix Mayor Phil Gordon to change out to CFLs. APS also partnered with the Department of Housing and Urban Development (HUD), the Housing Authority of Maricopa County (HAMC), the Arizona Energy Office and the Environmental Protection Agency (EPA) to conduct a lighting change-out at a 24-unit housing complex for elderly and disabled customers in Surprise. APS provided 336 CFLs for the event, which received coverage in local newspapers.

An additional event to promote the CFL program was held on Dec 1 in conjunction with Valley Forward, one of the premier non-profit environmental organizations in Arizona. APS provided CFLs that were used in innovative centerpieces for the Valley Forward's 37<sup>th</sup> Annual Luncheon. Guests were invited to take a CFL with them in exchange for their pledge to change out at least 5 bulbs in their home, and to help act as "ambassadors" to spread the word about the benefits of CFLs.

Advertising for the CFL program included the following:

- July 29 – Prescott Daily Courier
- July 29 – Prescott Valley Tribune
- August 12 – Payson Round Up
- September 1 – Surprise Today
- July-September – KNIX radio and KESZ radio, Phoenix

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **PROGRAM: NON-RESIDENTIAL PROGRAM FOR LARGE EXISTING FACILITIES**

#### **Description**

The Large Existing Facilities Program provides prescriptive incentives for owners and operators of large (over 200 kW aggregated demand) non-residential facilities for energy-efficiency improvements in lighting, HVAC, motors and refrigeration applications. The program also provides incentives for covering the cost of a retro-commissioning study that uses a systematic process to improve and optimize an existing building's operations and to support those improvements with enhanced documentation and training. The program provides educational and promotional pieces designed to assist facility and business owners and operators in making decisions to improve the energy efficiency of their facilities. Additional incentives are available to provide these building owners and managers' assistance in determining the feasibility of energy efficiency improvements. For DSM applications not covered through the prescriptive incentives, the program provides custom efficiency incentives to implement energy-efficiency measures that are evaluated on a case-by-case basis.

#### **Program Modifications**

No modifications for this reporting period.

#### **Program Goals, Objectives and Savings Targets**

- Provide DSM opportunities for existing large non-residential customers.
- Promote the installation of high-efficiency technologies including, but not limited to lighting, HVAC equipment, motors, and refrigeration systems.
- Identify and pursue retrofit opportunities within this market segment.
- Increase the efficiency of existing facilities through the testing and retro-commissioning of large central HVAC systems, as well as other end-use measures.
- Promote integrated solutions to the extent possible.

According to the ACC Staff's analysis of the new program – for three years, the energy efficiency savings expected to result from the Large Existing Program could reduce annual peak demand by about 10 MW and 856,000 MWh over the life of the measures.

#### **Programs Terminated**

No programs were terminated during this reporting period.

#### **Levels of Participation**

With ACC approval of this program on February 23, 2006, the Large Existing Facilities program transitioned from start-up phase for the previous reporting period, to an implementation phase in this reporting period. The Large Existing Facilities Program has generated considerable customer interest and activity thus far. A total of 117 active applications for large existing incentives have been received, from 52 unique customers. Applications from school districts comprise 21 of the 117 applications. As of December 31, 2006, \$762,296 in incentives were paid. This represents approximately 22% of the total incentive budget paid for large existing projects. While the program offers a pre-notification process to reserve incentive funds, final applications are only processed after the project is completed and all required documentation is submitted and approved by KEMA.

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**DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD:  
JULY THROUGH DECEMBER 2006**

<b>Incentive Status by Fund for Active Applications</b>	<b>Incentives Paid</b>
Large Existing – Prescriptive & Custom	\$759,971
Large Existing – Feasibility and Retro-commissioning studies	\$2,325
<b>Total Large Existing Funds</b>	<b>\$762,296</b>

During this reporting period, there was one study subsidy paid on October 12 for \$2,325. This study was an energy feasibility study for a golf and country club. No further applications for associated measures have been received by the program.

**Evaluation and Monitoring Activities and Results**

On April 12, 2006 in Decision No. 68648, the ACC approved funding for Measurement, Evaluation, and Research (MER) activities to assist in verifying the impact and cost effectiveness of APS' DSM programs. APS selected Summit Blue Consulting to conduct program MER activities. Summit Blue Consulting is currently working with APS to develop program research plans. The program research plans will be submitted for Staff review when completed.

Summit Blue has made progress on the MER Research Plan for the Large Existing. Summit Blue has also reviewed the implementation contractor's data base and provided feedback for improvements. Field work for evaluation and verification purposes began with onsite inspections on lighting projects completed for 13 unique customers. Data logging equipment was installed at 8 sites within this sample. Summit Blue also identified and began drafting two evaluation case studies of retrofit projects, including one prescriptive and one custom project in the Large Existing Program.

**kW and kWh Savings**

The following table reflects the total energy demand and saving goal and achievements in the second half of 2006 for the Large Existing Facilities. Only actual savings from projects that are completed and incentives paid are being counted in this report.

<b>kW Savings</b>	<b>Annual kWh Savings</b>	<b>Lifetime kWh Savings</b>
1,830	11,229,594	173,829,841

The final savings are adjusted for line losses (9.8%).

**Benefits and Net Benefits/Performance Incentive Calculation**

The benefits and net benefits are provided in Table 2. The details for the Performance Incentive calculation are provided in Table 3.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### Problems Encountered and Proposed Solutions

- Retro-commissioning issues to consider at the 13 month filing in March 2007:
  - The current program attributes no savings to retro-commissioning studies. We now have reason to believe that in practice, retro-commissioning can yield in significant savings from improved operations and energy efficiencies that typically result. It may be more appropriate to categorize this as a measure with associated savings versus a technical study as it is currently classified.
  - The \$10,000 per customer annual limit for retro-commissioning provides little incentive for multi-site customers to retro-commission multiple facilities. Multi-site customers make up the primary market for retro-commissioning firms due to efficiencies in the sales and implementation processes. The relatively low incentive for this market may partially explain the lack of retro-commissioning firms in Arizona. As of December 31, 2006, the program had not received any applications for retro-commissioning study incentives.

### Costs Incurred

Costs incurred for this program during the current reporting period are listed below:

DSM Program	Rebates & Incentives	Training & Technical Assistance	Consumer Education	Program Implement*	Program Marketing	Planning & Admin	Program Total Cost
Large Existing Facilities	\$759,971	\$2,446	\$4,531	\$516,969	\$7,826	\$48,290	\$1,340,033

\*The following table provides a more detailed breakdown of the IC costs, which are included in the Program Implement column above.

DSM Program	IC - Implementation	IC - Marketing	IC - Education	IC - Technical Services	IC - Total Cost
Large Existing Facilities	\$246,375	\$152,875	\$39,425	\$78,294	\$516,969

### Findings from all Research Projects

APS is currently completing work on a DSM Baseline and Market Potential study that was approved in Decision No. 67816. A final report is expected to be completed in the first quarter of 2007.

### Other Significant Information

APS hired KEMA to implement the Small Non-Residential, Large Existing Facilities, New Construction & Major Renovation and Schools Programs. The implementation contractor (IC) began program activities on March 1, 2006. All of the Non-Residential Programs, except for the Building Operator Training Program ("BOT"), are being marketed under the name "APS Solutions for Business."

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## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### Program Development

As the Solutions for Business program evolved from start-up to an implementation phase in the second half of 2006, additional program collateral materials were developed, website information and functionality were enhanced, applications and forms were improved, and project tracking and data systems were expanded.

Continuing work to refine and update current materials, and create new program materials resulted in the following creation of and / or changes to collateral materials:

- Trade Ally applications and the Policies and Procedures manual were finalized and posted to the website.
- On-line Prescriptive applications were upgraded to include automatic incentive calculations and data checks.
- Study Report Templates were completed, as well as completed "Sample" applications to use as training tools.
- Frequently Asked Questions document was developed and posted to the website.

### Marketing and Communications

Marketing activities for the Large Existing Customer program consisted of four areas of focus:

1. **Trade Ally awareness, training and recruitment:** Trade Allies such as HVAC and Lighting contractors are an essential part of the APS Demand Side Management program because they have the opportunity to provide advice to their customers and influence choices in the pivotal "buying stage" for projects. Once experienced with the program, Trade Allies also have the ability to fill out program applications and provide supporting documentation as an added value to their customers. In the second half of 2006, marketing efforts directed toward Trade Allies included:
  - Five Solutions for Business seminars were developed and delivered for Trade Allies. They were held in Flagstaff, Casa Grande, Yuma and Phoenix (two seminars.) Over 4,000 invitations were mailed, and an ad was developed and placed in HVACR Today and the Electric Times to promote the Phoenix seminars. Additionally, a half page article appeared in the same issue, highlighting the program for the trades. Eighty-seven trade allies attended these seminars.
  - In order to encourage Trade Ally participation, a Trade Ally Listing was established on the Solutions for Business program website. An application and approval process was developed so that qualified Trade Allies could be listed. Prerequisites for achieving this listing included attendance at a seminar or one-on-one training by program staff, a contractor's license in good standing and reference checks.

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## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

- One on one meetings with contractors were also pursued to both conduct training on the program and recruit Trade Allies as participants. During this period KEMA met with 23 individual allies in the following trades: air conditioning, lighting, engineering, architecture, building, and energy consulting.
  - Over 150 Trade Allies have been trained and each has received an application for the listing. Twenty Trade Allies have satisfied the program requirements and are listed on the program website. This listing is also intended to be a tool for customers who are looking for contractors with program experience.
2. **Customer awareness and project generation:** Direct marketing to customers is most effective for larger customers, or as a follow up with customers who have heard about the program through other means. Once interested companies have been identified, one-on-one meetings are held to discuss the individual projects and measures. This strategy has resulted in:
- Key Account Customer Training meetings in Metro Phoenix, Yuma, Flagstaff and Casa Grande which introduced the Solutions for Business program to over 150 Large Customers.
  - Additional meetings with over 100 large customers to identify projects and provide technical assistance.
  - Added focus on public entities such as the State of Arizona, Counties, Cities of Phoenix, Tempe, Glendale, Surprise, Scottsdale, Avondale, Peoria, El Mirage, Sedona and Flagstaff as well as ASU and NAU.
3. **Generate Program Awareness through key Trade Shows, Events and Public Relations:** This strategy promotes the program to large numbers of attendees and sets the stage for one-on-one visits for those interested in the program. Venues were chosen for their likelihood to have qualified leads in attendance.
- *Arizona Green Building Expo* – This two-day trade show attracted 1,000 attendees, including customers of all sizes as well as Trade Allies. The Solutions for Business program had a booth at this event with multiple staff members available to address questions and provide program information.
  - *National Association of Industrial and Office Properties Meeting in Phoenix* – Program staff attended this event and provided program information.
  - *Arizona Association of Industries Energy Summit* - The APS Solutions for Business program was a Gold sponsor at the Arizona Association of Industries Energy

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Summit. In addition to presenting the program as part of a panel presentation, Solutions for Business staff presented program materials and answered questions at one of only a handful of booths at the event.

- *Arizona Facilities Management Show* - Solutions for Business program was promoted at the 2-day Facilities Management Show held at the Arizona Cardinal's stadium. This show draws over 1,000 attendees from facilities across Arizona. In addition to marketing to attendees at the booth, team members also visited booths of several potential Trade Allies for recruitment into the program. The Solutions for Business program was also presented to attendees in one of the technical sessions.
- *Written Publications*: Articles were written for Chamber of Commerce newsletters, the October issue of APS' Success Newsletter to business customers, and the trade publications The Electric Times and HVACR Today.

4. **Engage Key Organizations** such as trade associations provide targeted networking opportunities to customers or trade allies who may be predisposed to getting involved with the program. Key organizations engaged by the Solutions for Business program in the second half of 2006 include:

Building Owners and Managers Association (BOMA,) National Association of Industrial and Office Parks, Green Building Council, Arizona Department of Environmental Quality, the Electric League of Arizona, Arizona Energy Engineers, the Air Conditioning Contractors of Arizona, the Arizona Association of Economic Developers and Valley Forward.

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## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **PROGRAM: NON-RESIDENTIAL NEW CONSTRUCTION AND MAJOR RENOVATIONS**

#### **Description**

This program includes three components: design assistance, custom efficiency, and prescriptive measures. Design assistance involves efforts to integrate energy-efficiency into a customer's design process to influence equipment/systems selection and specification as early in the design process as possible. Custom efficiency provides incentives for large non-residential customers and provides feasibility studies to assess the savings from complex applications. Prescriptive incentives are available for energy-efficiency improvements in lighting, HVAC, motors and refrigeration applications.

#### **Program Modifications**

No modifications for this reporting period.

#### **Program Goals, Objectives and Savings Targets**

- Promote integrated design and integrated analysis of alternative high-efficiency design packages through design assistance in new construction and major renovation applications.
- Assist the customer design team in examining alternative high-efficiency design packages through the provision of the design incentive.
- Encourage facility-specific efficiency improvements through custom incentives that are otherwise difficult to cover in a prescriptive program.
- Encourage the integrated systems approach to incorporating energy-efficiency improvements in new construction and major renovation projects.
- Promote integrated energy efficiency solutions where possible to capture interactive effects and synergistic savings opportunities.
- Train commercial qualified contractors to meet APS' standards for installation and operation of high efficiency systems.

According to the ACC Staff's analysis of the new program – for three years, the energy efficiency savings expected to result from the Large New Construction Program could reduce annual peak demand by about 8.8 MW and 729,000 MWh over the life of the measures.

#### **Programs Terminated**

No programs were terminated during this reporting period.

#### **Levels of Participation**

With ACC approval of this program on February 23, 2006, the New Construction program transitioned from start-up phase for the previous reporting period, to an implementation phase in this reporting period. Long lead times for new construction typically result in a longer ramp up time for program participation. As a result, the participation in the New Construction program is not as robust as in the Large Existing program. A total of 21 applications for New Construction incentives have been received, from 10 unique customers. Eight of the 21 applications are from school districts. As of December 31, 2006, \$62,480 in incentives were paid, and this represents approximately 1.7% of the total incentive budget for New Construction projects. While the program offers a pre-notification process to reserve incentive funds, final applications are only processed after the project is completed and all required documentation is submitted and approved by KEMA.

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Incentive Status for Active Applications	Incentives Paid
Large New Construction – Prescriptive, Custom & Design Assistance	\$62,480
Large New Construction – Feasibility and Commissioning Studies	\$0
<b>Total Large New Construction Funds</b>	<b>\$62,480</b>

During this reporting period, there were no instances that incentives were paid for New Construction related studies for which associated projects were not completed through the verification process.

### **Evaluation and Monitoring Activities and Results**

On April 12, 2006 in Decision No. 68648, the ACC approved funding for Measurement, Evaluation, and Research (MER) activities to assist in verifying the impact and cost effectiveness of APS' DSM programs. APS selected Summit Blue Consulting to conduct program MER activities. Summit Blue Consulting is currently working with APS to develop program research plans. The program research plans will be submitted for Staff review when completed.

Summit Blue has made progress on the MER Research Plan for the New Construction. Summit Blue has also reviewed the implementation contractor's data base and provided feedback for improvements. Field work for evaluation and verification purposes will begin once new construction projects are completed.

### **kW and kWh Savings**

The following table reflects the total energy demand and saving goal and achievements in the second half of 2006 for the Large New Construction Program. Only actual savings from projects that are completed and incentives paid will be counted in this report.

kW Savings	Annual kWh Savings	Lifetime kWh Savings
152	1,237,204	19,928,920

The final savings are adjusted for line losses (9.8%).

### **Benefits and Net Benefits/Performance Incentive Calculation**

The benefits and net benefits are provided in Table 2. The details for the Performance Incentive calculation are provided in Table 3.

### **Problems Encountered and Proposed Solutions**

Large New Construction projects often have a long lead / lag-time between the design phase, start of construction and complete build-out of a project. There is often an 18 month or longer lead time with new construction projects, and this could affect the timing of savings results and incentives paid in this program.

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**DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD:  
JULY THROUGH DECEMBER 2006**

**Costs Incurred**

Costs incurred for this program during the current reporting period are listed below:

DSM Program	Rebates & Incentives	Training & Technical Assistance	Consumer Education	Program Implement*	Program Marketing	Planning & Admin	Program Total Cost
Large Non Res New Const	\$62,480	\$3,072	\$1,957	\$649,501	\$7,712	\$50,840	\$775,562

\*The following table provides a more detailed breakdown of the IC costs, which are included in the Program Implement column above.

DSM Program	IC - Implementation	IC - Marketing	IC - Education	IC - Technical Services	IC - Total Cost
Large Non Res New Const	\$306,294	\$172,051	\$50,582	\$120,573	\$649,501

**Findings from all Research Projects**

APS is currently completing work on a DSM Baseline and Market Potential study that was approved in Decision No. 67816. A final report is expected to be completed in the first quarter of 2007.

**Other Significant Information**

APS hired KEMA to implement the Small Non-Residential, Large Existing Facilities, New Construction & Major Renovation and Schools Programs. The Implementation Contractor (IC) began program activities on March 1, 2006. All of the Non-Residential Programs, except for the "BOT" program are being marketed under the name "Solutions for Business."

Program Development

As the Solutions for Business program evolved from start-up to an implementation phase in the second half of 2006, additional program collateral materials were developed, website information and functionality were enhanced, applications and forms were improved, and project tracking and data systems were expanded. Continuing work to refine and update current materials, and create new program materials resulted in the following creation of and/ or changes to collateral materials:

- Trade Ally applications and the Policies and Procedures manual were finalized and posted to the website.
- On-line Prescriptive applications were upgraded to include automatic incentive calculations and data checks.
- Study Report Templates were completed, as well as completed "Sample" applications to use as training tools.
- Frequently Asked Questions document was developed and posted to the website.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### Marketing and Communications

Marketing activities for the Large Non-Residential New Construction program consisted of four areas of focus:

1. **Trade Ally awareness, training and recruitment:** Trade Allies such as Architects, Engineering firms, Construction firms, and HVAC and Lighting contractors are an essential part of a New Construction program because they have the opportunity to provide advice to their customers and influence choices in the pivotal design and planning stages for projects. Once experienced with the program, Trade Allies also have the ability to fill out program applications and provide supporting documentation as an added value to their customers. In the second half of 2006, marketing efforts directed toward Trade Allies included:
  - Five Solutions for Business seminars were developed and delivered for Trade Allies. They were held in Flagstaff, Casa Grande, Yuma and Phoenix (two seminars.) One of the Phoenix seminars focused exclusively on Architect and Engineering firms. Over 4,000 invitations were mailed, and an ad was developed and placed in HVACR Today and the Electric Times to promote the Phoenix seminars. Additionally, a half page article appeared in the same issue, highlighting the program for the trades. Eighty-seven trade allies attended these seminars.
  - In order to encourage Trade Ally participation, a Trade Ally Listing was established on the Solutions for Business program website. An application and approval process was developed so that qualified Trade Allies could be listed. Prerequisites for achieving this listing included attendance at a seminar or one-on-one training by program staff, a contractor's license in good standing and reference checks.
  - The New Construction focus has been on meeting with architecture/engineering firms, builders and developers to influence the decision making early in the building process.
  - One on one meetings with contractors were also pursued to both conduct training on the program and to recruit Trade Allies as participants. During this period KEMA met with 23 individual allies in the following trades: air conditioning, lighting, engineering, architecture, building, and energy consulting.
  - Over 150 Trade Allies have been trained and each has received an application for the listing. Twenty Trade Allies have satisfied the program requirements and are listed on the program website. This listing is also intended to be a tool for customers who are looking for contractors with program experience.

## ARIZONA PUBLIC SERVICE COMPANY

### DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

2. **Customer awareness and project generation:** Direct marketing to customers is most effective for larger customers, or to follow up with customers who have heard about the program through other means. Once interested companies have been identified, one-on-one meetings are held to discuss the individual projects and measures. This strategy has resulted in:
- Key Account Customer Training meetings in Metro Phoenix, Yuma, Flagstaff and Casa Grande which introduced the Solutions for Business program to over 150 Large Customers.
  - Additional meetings with over 100 large customers to identify projects and provide technical assistance.
  - Added focus on public entities who are more likely to own and operate their facilities, such as the State of Arizona, Counties, Cities of Phoenix, Tempe, Glendale, Surprise, Scottsdale, Avondale, Peoria, El Mirage, Sedona and Flagstaff as well as ASU and NAU.
3. **Generate Program Awareness through key Trade Shows, Events and Public Relations:** This strategy promotes the program to large numbers of attendees and sets the stage for one-on-one visits for those interested in the program. Venues were chosen for their likelihood to have qualified leads in attendance.
- *Arizona Green Building Expo* – This two-day trade show attracted 1,000 attendees, including customers of all sizes as well as Trade Allies. The Solutions for Business program had a booth at this event with multiple staff members available to address questions and provide program information.
  - *National Association of Industrial and Office Properties Meeting in Phoenix* – Program staff attended this event and provided program information.
  - *Arizona Association of Industries Energy Summit* - The APS Solutions for Business program was a Gold sponsor at the Arizona Association of Industries Energy Summit. In addition to presenting the program as part of a panel presentation, Solutions for Business staff presented program materials and answered questions at one of only a handful of booths at the event.
  - *Arizona Facilities Management Show* - Solutions for Business program was promoted at the 2-day Facilities Management Show held at the Arizona Cardinal's stadium. This show draws over 1,000 attendees from facilities across Arizona. In addition to marketing to attendees at the booth, team members also visited booths of several potential Trade Allies for recruitment into the program. The Solutions for Business program was also presented to attendees in one of the technical sessions.

## ARIZONA PUBLIC SERVICE COMPANY

### DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

4. **Engage Key Organizations** such as trade associations provide targeted networking opportunities to customers or trade allies who may be predisposed to getting involved with the program. Key organizations engaged by the Solutions for Business program in the second half of 2006 include:
  - Building Owners and Managers Association (BOMA,) National Association of Industrial and Office Parks, Green Building Council, Arizona Department of Environmental Quality, the Electric League of Arizona, Arizona Energy Engineers, the Air Conditioning Contractors of Arizona, the Arizona Association of Economic Developers and Valley Forward.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **PROGRAM: SMALL BUSINESS PROGRAM**

#### **Description**

The Small Non-Residential Program provides prescriptive incentives for small non-residential customers (<200 kW of aggregated demand) for energy-efficiency improvements in lighting, HVAC ("heating, ventilation, and air conditioning"), motors, and refrigeration applications through a simple and straightforward mechanism for program participation. In addition, the program provides educational and promotional materials designed to assist building owners and lease-holders in making decisions to improve the energy-efficiency of their facilities.

#### **Program Modifications**

No modifications for this reporting period.

#### **Program Goals, Objectives and Savings Targets**

- Provide Demand Side Management opportunities for small non-residential customers.
- Promote the installation of high-efficiency lighting, packaged HVAC equipment, motors, and refrigeration systems.
- Increase the availability of trained and qualified contractors and service technicians who are knowledgeable about systems performance issues, proper testing, operation and commissioning techniques, and the importance of energy and comfort conditioning benefits of systems that are properly installed and operated.
- Promote cross-training and energy-efficiency assessment and referral opportunities among HVAC and lighting contractors.

According to the ACC Staff's analysis of the new program – for three years, the energy efficiency savings expected to result from the Small Non-Residential Program could reduce annual peak demand by about 6.5 MW and 571,000 MWh over the life of the measures.

#### **Programs Terminated**

No programs were terminated during this reporting period.

#### **Levels of Participation**

With ACC approval of this program on February 23, 2006, the Small Business program transitioned from start-up phase for the previous reporting period, to an implementation phase in this reporting period. As reported in the previous semi annual report, the small business sector is difficult to reach and often requires greater incentives than other markets. A total of 37 applications for Small Business incentives have been received from 21 unique customers. One of the 37 applications is from a school district. As of December 31, 2006, \$62,240 in incentives were paid, and this represents approximately 2.8% of the total incentive budget for Small Business projects. While the program offers a pre-notification process to reserve incentive funds, final applications are only processed after the project is completed and all required documentation is submitted and approved by KEMA.

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## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

Incentive Status for Active Applications	Incentives Paid
Small Business	\$62,240

### Evaluation and Monitoring Activities and Results

On April 12, 2006 in Decision No. 68648, the ACC approved funding for Measurement, Evaluation, and Research (MER) activities to assist in verifying the impact and cost effectiveness of APS' DSM programs. APS selected Summit Blue Consulting to conduct program MER activities. Summit Blue Consulting is currently working with APS to develop program research plans. The program research plans will be submitted for Staff review when completed.

Summit Blue has made progress on the MER Research Plan for the Small Business. Summit Blue has also reviewed the implementation contractor's data base and provided feedback for improvements. Field work for evaluation and verification purposes will begin soon on small business projects that have been completed.

### kW and kWh Savings

The following table reflects the total energy demand and saving goal and achievements in the second half of 2006 for Small Businesses. Only actual savings from projects that are completed and incentives paid will be counted in this report.

kW Savings	Annual kWh Savings	Lifetime kWh Savings
118	667,738	10,273,974

Final savings are adjusted for line losses (9.8%).

### Benefits and Net Benefits/Performance Incentive Calculation

The benefits and net benefits are provided in Table 2. The details for the Performance Incentive calculation are provided in Table 3.

### Problems Encountered and Proposed Solutions

- Low initial participation from small customers: Small businesses are frequently hard to reach through traditional approaches to promoting energy efficiency programs. In the last 6 months of 2006, this program was promoted to Trade Allies, which includes contractors for lighting and HVAC equipment installation that often service the small business market segment. While some progress was made, small business participation remains low. This marketing channel will continue to be worked aggressively. However, program changes will likely be needed to achieve higher penetration levels in this market segment.
- KEMA has identified that the incentive levels currently being offered are lower than those of many other successful energy efficiency programs targeted to small businesses. For example:
  - The EZ-Turnkey Program offered by San Diego Gas and Electric provided incentives equal to 100% of the full retrofit costs to their small business facilities with peak demand below 20 kW.

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## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

- The B.E.S.T. Program implemented in various cities throughout California paid between 75% and 100% of the full retrofit costs for small business facilities with peak demand below 100 kW.
- The Small Business Energy Advantage Program offered by Northeast Utilities pays 50% of the lighting retrofit costs and 100% of non lighting retrofits costs. The program also provides a financing option for the portion of the lighting retrofit project to be paid by the small business.
- The Small Business Solutions Program offered by NSTAR offers a free energy audit to identify energy saving opportunities, and will also pay up to 80% of the total cost for retrofitting qualifying lighting and mechanical systems to customers whose average monthly demand is 100 kW or less.
- Massachusetts Electric and Nantucket Electric provide free audits and up to 75% of the cost of installation for energy saving improvements through their Small Business Energy Efficiency Program, which is open to customers with an average demand of 200 kW or less.
- Additional marketing efforts have been identified which will be implemented in 2007 to reach small businesses and the effectiveness of these efforts will be monitored.
- This issue will be addressed with recommended solutions in the 13 month filing, due on March 23, 2007.

### Costs Incurred

Costs incurred for this program during the current reporting period are listed below:

DSM Program	Rebates & Incentives	Training & Technical Assistance	Consumer Education	Program Implement*	Program Marketing	Planning & Admin	Program Total Cost
Small Business	\$62,240	\$0	\$1,471	\$356,283	\$6,955	\$26,804	\$453,752

\*The following table provides a more detailed breakdown of the IC costs, which are included in the Program Implement column above.

DSM Program	IC - Implementation	IC - Marketing	IC - Education	IC - Technical Services	IC - Total Cost
Small Business	\$187,028	\$113,483	\$28,230	\$27,541	\$356,283

### Findings from all Research Projects

APS is currently completing work on a DSM Baseline and Market Potential study that was approved in Decision No. 67816. A final report is expected to be completed in the first quarter of 2007.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **Other Significant Information**

APS hired KEMA to implement the Small Non-Residential, Large Existing Facilities, New Construction & Major Renovation and Schools Programs. The Implementation Contractor (IC) began program activities on March 1, 2006. All of the Non-Residential Programs, except for the "BOT" Program are being marketed under the name "Solutions for Business."

### Program Development

As the Solutions for Business program evolved from start-up to an implementation phase in the second half of 2006, additional program collateral materials were developed, website information and functionality were enhanced, applications and forms were improved, and project tracking and data systems were expanded. Continuing work to refine and update current materials, and create new program materials resulted in the following creation of and/ or changes to collateral materials:

- Trade Ally applications and the Policies and Procedures manual were finalized and posted to the website.
- Project applications were updated to change HVAC qualifications from EER to IPLV and to revise the Diagnostic Tune Up measure name to HVAC Testing and Repair and add an economizer repair measure. The HVAC Services Supplement for the Testing and Repair was finalized and made available.
- On-line Prescriptive applications were upgraded to include automatic incentive calculations and data checks.
- Study Report Templates were completed, as well as completed "Sample" applications to use as training tools.
- Frequently Asked Questions document was developed and posted to the website.

### Marketing and Communications

Marketing activities for the Small Non-residential Customer program consisted of four areas of focus:

1. **Trade Ally awareness, training and recruitment:** Trade Allies such as HVAC and Lighting contractors are an essential part of any Demand Side Management program because they have the opportunity to provide advice to their customers and influence choices in the pivotal "buying stage" for projects. This group is especially useful in reaching small business. Once experienced with the program, Trade Allies also have the ability to fill out program applications and provide supporting documentation as an added value to their customers. In the second half of 2006, marketing efforts directed toward Trade Allies included:

- Five Solutions for Business seminars were developed and delivered for Trade Allies. They were held in Flagstaff, Casa Grande, Yuma and Phoenix (two seminars.) Over 4,000 invitations were mailed, and an ad was developed and placed in HVACR Today and the Electric Times to promote the Phoenix seminars. Additionally, a half page article appeared in the same issue, highlighting the program for the trades. Eighty-seven trade allies attended these seminars.

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## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

- In order to encourage Trade Ally participation, a Trade Ally Listing was established on the Solutions for Business program website. An application and approval process was developed so that qualified Trade Allies could be listed. Prerequisites for achieving this listing included attendance at a seminar or one-on-one training by program staff, a contractor's license in good standing and reference checks.
- One on one meetings with contractors were also pursued to both conduct training on the program and recruit as Trade Allies. During this period KEMA met with 23 individual allies in the following trades: air conditioning, lighting, engineering, architecture, building, and energy consulting.
- Over 150 Trade Allies have been trained and each has received an application for the listing. Twenty Trade Allies have satisfied the program requirements and are listed on the program website. This listing is also intended to be a tool for customers who are looking for contractors with program experience.

2. **Customer awareness and project generation:** The first step of marketing the program is creating awareness among small companies which can be done on a large scale. Once interested companies have been identified, one on one meetings are held to discuss the individual projects and measures. This has been particularly challenging in the case of small businesses. They need to first be educated on the benefits on energy efficiency before they are interested in learning about the Solutions for Business program. To achieve this, the following strategy has been developed:

- Held meetings with APS Economic Development, Community Development and AAAME teams to develop a strategic plan for 2007.
- A more tactical plan to reach small businesses has been developed and will start January 2007. This initiative leverages existing APS relationships among Chambers of Commerce, downtown community redevelopment groups, cities and other organizations which reach small businesses on a regular basis. In the first two quarters each geographic area in the state will be covered, using outreach through group newsletters, presentations, radio and print opportunities. Specific collateral materials that speak to small business are being developed to support this effort.
- Meetings with city staff in the areas of economic development and permitting will also be targeted as a distribution point for information and materials. As an example, the City of Avondale has already agreed to stock Solutions for Business brochures in their business permitting office.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### 3. **Generate Program Awareness through key Trade Shows, Events and Public Relations:**

This strategy promotes the program to large numbers of attendees and sets the stage for one-on-one visits for those interested in the program. Venues were chosen for their likelihood to have qualified leads in attendance. Chambers of Commerce have been specifically identified as a key point of contact with small businesses, and other opportunities include the following:

- Prestamos Seminario – This Hispanic small business tradeshow was an outreach to minority businesses. The Solutions for Business program had a booth at this event with multiple staff members available to address questions and provide program information.
- East Valley Chamber of Commerce Business Expo – Program staff attended this event and provided program information to potential clients.
- Phoenix Chamber of Commerce Business Expo - The APS Solutions for Business program had a booth at this event with staff members available to address questions and provide program information.
- Governor's Council on Small Business - Solutions for Business program was allowed to give a presentation and distribute program flyer. This resulted in an invitation in rural Arizona for a radio program that focuses on small businesses.
- Written Publications: Articles were written for Chamber of Commerce newsletters, the October issue of APS' Success Newsletter to business customers, and articles in both The Electric Times and HVACR Today.

### 4. **Engage Key Organizations** such as trade associations provide targeted networking opportunities to customers or trade allies who may be predisposed to getting involved with the program. Key organizations engaged by the Solutions for Business program in the second half of 2006 include:

- Many small businesses are located within multi-tenant building, so Building Owners and Managers Association (BOMA,) National Association of Industrial and Office Parks have been targeted.
- Green Building Council, Arizona Association of Economic Developers, Arizona Energy Engineers, the Air Conditioning Contractors of Arizona, the Arizona Association of Economic Developers and Valley Forward all have members or extensive contact with small businesses.
- Several partnerships with organizations are being investigated including: Arizona Department of Environmental Quality Prevention Pollution program and their Arizona Green Business/Green Schools programs and training programs with the Electric League of Arizona.

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## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **PROGRAM: BUILDING OPERATOR TRAINING PROGRAM ("BOT")**

#### **Description**

The Building Operator Training Program ("BOT") provides training incentives for building operators (managers) and facility maintenance technicians on energy-efficient building operating and maintenance practices.

Program training is provided through a cooperative effort with the Electric League of Arizona ("ELA") in support of their "Institute for Facility Management Education" program, which includes industry expert training targeted to reach facility managers and building operators of medium to large commercial and industrial facilities. The ELA issues a certificate of completion for participants that successfully complete Facility Maintenance Technician Training and Building Operator Training.

#### **Program Modifications**

No modifications for this reporting period.

#### **Program Goals, Objectives and Savings Targets**

- Promote operation and maintenance practices that increase the energy-efficiency of commercial and industrial facilities.
- Help participants understand general utility rate concepts and energy consumption.
- Institute a preventative maintenance program in their facility, which includes written maintenance logs that must be completed periodically. Include checks for efficient equipment operation (i.e., economizer/dampers for leaks, coil cleaning, air filter cleaning, system balancing, controls, etc.).
- Learn how to perform an energy audit of their facility and identify savings opportunities
- Learn to create reports for management that justify energy-efficiency capital expenses intended to produce O&M savings.
- Improve purchasing requirements by knowing what to look for when repairing or replacing equipment, and how to calculate the payback of energy savings associated with purchase options; and
- Provide a mechanism for channeling participation to the APS Business Solutions Program.

According to the ACC Staff's analysis of the new program – for three years, the energy efficiency savings expected to result from the BOT Program could reduce annual peak demand by about 6.43 MW and 81,000 MWh over the life of the measures.

#### **Programs Terminated**

No programs were terminated during this reporting period.

#### **Levels of Participation**

The BOT Program had twelve APS customer participants in the Fall 2006 Building Operator Training session, and all twelve successfully received a passing grade from the Electric League of Arizona (ELA) and received their BOT Certificate of completion. The training subsidy paid to the ELA to cover the tuition subsidy for APS customer participation totaled \$7,170 or \$598 per participant.

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## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

The BOT Program also had twenty-six APS customer participants in the Fall 2006 Facilities Maintenance Training session, and twenty-four successfully received a passing grade from the ELA. The FMT subsidy paid to the ELA to cover the tuition subsidy for APS customers was \$10,740 or \$447.50 per passing customer.

### Evaluation and Monitoring Activities and Results

On April 12, 2006 in Decision No. 68648, the ACC approved funding for Measurement, Evaluation, and Research (MER) activities to assist in verifying the impact and cost effectiveness of APS' DSM programs. APS selected Summit Blue Consulting to conduct program MER activities. Summit Blue Consulting is currently working with APS to develop program research plans. The program research plans will be submitted for Staff review when completed.

Summit Blue has made progress on the MER Research Plan for the BOT. Specific MER activities to improve the process in the BOT Program for this reporting period includes the following:

- Completed depth interviews with 4 instructors for the Building Operator Certification, Facility Maintenance Technician and HVAC Contractor Training programs offered through the Electric League of Arizona.
- Completed depth interviews with 9 out of 12 class participants in the Fall Building Operator Certification Program.
- Completed initial depth interviews with program implementers, the Electric League of Arizona.
- Reviewed program marketing efforts and a sample of program training materials and are developing a report on anecdotal observations based on qualitative research completed to date.

Provided baseline questions that were subsequently added to the application that ELA provides to class participants to receive incentives from APS for program participation.

### kW and kWh Savings

Participants	Est. Measure Life (yrs)	kWh Savings per Year*	Lifetime kWh Savings	kW Demand Savings *
BOT = 12	15	88,516	1,327,746	11.46
FMT = 24	15	177,033	2,655,491	22.93

\* Annual energy and demand savings per participant approved equals 6,718 kWh and .87 kW. The final savings are adjusted for line losses (9.8%).

### Benefits and Net Benefits/Performance Incentive Calculation

The benefits and net benefits are provided in Table 2. The details for the Performance Incentive calculation are provided in Table 3.

### Problems Encountered and Proposed Solutions

No problems were encountered during this reporting period.

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## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### Costs Incurred

Costs incurred for this program during the current reporting period are listed below:

DSM Program	Rebates & Incentives	Training & Technical Assistance	Consumer Education	Program Implement	Program Marketing	Planning & Admin	Program Total Cost
Building Operator Training	\$0	\$17,910	\$0	\$10,757	\$4,360	\$1,186	\$34,213

### Findings from all Research Projects

APS is currently completing work on a DSM Baseline and Market Potential study that was approved in Decision No. 67816. A final report is expected to be completed in the first quarter of 2007.

### Other Significant Information

None.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **PROGRAM: ENERGY INFORMATION SERVICES ("EIS") PROGRAM**

#### **Description**

The EIS Program helps large customers (>200 kW) save energy by giving them a better understanding and control of their facilities' electric use. EIS provides data not only regarding usage and demand, but also when, where and how much power is used in specific areas of each facility. This detailed information allows customers to fine-tune equipment use and operations and to document the impact of those changes. Participating customers monitor their electric usage through a web-based energy information system that allows them to receive historical (previous day) 15 minute usage and demand graphics. This information can be used to improve or monitor energy usage patterns, reduce energy use, reduce demands during on-peak periods and better manage their overall energy operations.

APS is encouraging customers to take advantage of EIS by providing a one-time incentive of up to a maximum of \$900 or 75% of the cost of installing a meter and communications equipment necessary to participate in the program.

#### **Program Modifications**

No modifications for this reporting period.

#### **Program Goals, Objectives and Savings Targets**

- Provide monthly energy usage information to large non-residential customers.
- Identify strategies to lower energy cost by reducing energy usage and demand.
- Educate EIS program participants about utility rate concepts and how managing or reducing their energy consumption through energy-efficiency measures and operational practices can reduce their energy expenses.
- Teach participants how to download billing history information and create spreadsheets to chart and graph their energy use, as well as identify consumption trends and savings opportunities.
- Educate EIS participants about creating reports for management that justify energy-efficient capital expenses intended to produce operations and maintenance ("O&M") savings; and
- Facilitate analysis of what-if scenarios to help large facility managers assess the benefits of capital improvements or operating adjustments to improve energy-efficiency.

According to the ACC Staff's analysis of the new program – for three years, the energy efficiency savings expected to result from the EIS Program could reduce annual peak demand by about 3.57 MW and 45,000 MWh over the life of the measures.

#### **Programs Terminated**

No programs were terminated during this reporting period.

#### **Levels of Participation**

No participation to report, as the EIS program was started in late 2006.

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## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **Evaluation and Monitoring Activities and Results**

On April 12, 2006 in Decision No. 68648, the ACC approved funding for Measurement, Evaluation, and Research (MER) activities to assist in verifying the impact and cost effectiveness of APS' DSM programs. APS selected Summit Blue Consulting to conduct program MER activities. Summit Blue Consulting is currently working with APS to develop program research plans. The program research plans will be submitted for Staff review when completed.

### **kW and kWh Savings**

No savings to report during this period.

### **Benefits and Net Benefits/Performance Incentive Calculation**

The benefits and net benefits are provided in Table 2. The details for the Performance Incentive calculation are provided in Table 3. Since there were no kW or kWh savings to date, the EIS program benefits are zero to date.

### **Problems Encountered and Proposed Solutions**

No problems were encountered during this reporting period.

### **Costs Incurred**

Costs incurred for the EIS Program during the second half of 2006 were \$10,094 for program administration expenses and \$12,971 for program implementation expenses.

### **Findings from all Research Projects**

APS is currently completing work on a DSM Baseline and Market Potential study that was approved in Decision No. 67816. A final report is expected to be completed in the first quarter of 2007.

### **Other Significant Information**

Automated Energy was selected as the implementation contractor for the EIS program through a competitive RFP process in the last quarter of 2006. Automated Energy will provide turn-key implementation services for the program. The program was launched on November 16<sup>th</sup>.

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## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### PROGRAM: SCHOOLS PROGRAM

#### Description

The Schools program includes a set-aside budget for schools and provides assistance in reducing the energy used in school buildings, including public, private and charter schools. The incentives available for schools include the same DSM measures that are available for all non-residential customers.

#### Program Modifications

No modifications for this reporting period.

#### Program Goals, Objectives and Savings Targets

- Maximize the energy savings that can be attained with available DSM funds by providing schools incentives to upgrade lighting, HVAC, and refrigeration systems.
- Provide educational and training materials to aid schools in other energy conservation projects.
- Provide design assistance, commissioning and energy feasibility incentives to aid schools in identifying energy savings opportunities.
- Provide incentives for other cost effective DSM projects by allowing schools to participate in any Non-Residential DSM Program.

According to the ACC Staff's analysis of the new program – for three years, the energy efficiency savings expected to result from the lighting component of the Schools Program alone could reduce annual peak demand by about 6.37 MW and 178,000 MWh over the life of the measures. Staff also indicated to the extent that other cost-effective measures would be undertaken by Schools, additional savings could accrue.

#### Programs Terminated

No programs were terminated during this reporting period.

#### Levels of Participation

A total of 31 applications from schools have been received, from 12 unique school districts. The self-reported size of the school entity, based on the number of students as submitted on approved applications is:

Name of School	Project Type	Size	No. of Students in District
Mammoth San Manuel Unified School District	Prescriptive Measures – Retrofit	>200 kW	1,400
Scottsdale Unified School District	Prescriptive Measures – Retrofit	>200 kW	28,000
Wilson Elementary Schools	Prescriptive & Custom Measures – Retrofit	>200 kW	1,250
Canon Elementary School District #50	Prescriptive Measures – Retrofit	>200 kW	186

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Palo Verde Schools	Prescriptive Measures – Retrofit	>200 kW	420
Deer Valley Unified School District	Prescriptive & Custom Measures – Retrofit	>200 kW	35,743
Casa Grande Elementary School District	Prescriptive Measures – Retrofit	>200 kW	7,240
Dysart Unified School District #89	Prescriptive & Custom Measures – Retrofit	>200 kW	18,000
Paradise Valley Unified SD #69	Prescriptive & Custom Measures – Retrofit	>200 kW	34,226
Gilbert Unified SD	Prescriptive Measures – Retrofit	>200 kW	37,539

When an incentive application is received from a school district and deemed eligible, funding is first allocated from the Schools budget, subject to the \$25,000 or \$15/student cap. Any additional funding required to cover the application is then allocated from the appropriate Large Existing, New Construction or Small Business Program budget.

During this reporting period, \$262,836 in incentives were paid to schools. The Schools Program incentives of \$73,380 were paid under the schools cap and account for 6.5% of the program incentive budget for schools. The remaining \$189,456 in incentives were paid to schools under the Large Existing Program (see the table below).

Incentive Status by Fund for Active Applications	Incentives Paid
Schools Budget – Prescriptive & Custom	\$73,380
Schools Budget – Feasibility, Commissioning and Retro-commissioning Studies	\$0
<b>Total School Funds</b>	<b>\$73,380</b>
<b>Schools Summary:</b>	
Schools – School Funds	\$73,380
Schools – Large Existing Funds	\$189,456
Schools – New Construction Funds	\$0
Schools – Small Business Funds	\$0
<b>Total Allocated for Schools</b>	<b>\$262,836</b>

During this reporting period, there were no instances that incentives were paid for studies for which associated projects were not completed through the verification process.

**Evaluation and Monitoring Activities and Results**

On April 12, 2006 in Decision No. 68648, the ACC approved funding for Measurement, Evaluation, and Research (MER) activities to assist in verifying the impact and cost effectiveness of APS' DSM programs. APS selected Summit Blue Consulting to conduct program MER activities. Summit Blue Consulting is currently working with APS to develop program research plans. The program research plans will be submitted for Staff review when completed.

**ARIZONA PUBLIC SERVICE COMPANY**

**DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD:  
JULY THROUGH DECEMBER 2006**

Summit Blue has made progress on the MER Research Plan for the Schools. Summit Blue has also reviewed the implementation contractor's data base and provided feedback for improvements. Field work for evaluation and verification purposes began with onsite inspections on a lighting project completed for the Paradise Valley Unified School District.

**kW and kWh Savings**

The following table reflects the total energy demand and saving goal and achievements in the second half of 2006 for schools projects. Only actual savings from projects that are completed and incentives paid will be counted in this report.

	<b>kW Savings</b>	<b>Annual kWh Savings</b>	<b>Lifetime kWh Savings</b>
Schools – School Funds	126	693,600	13,290,926
Schools – Large Existing Funds	515	2,359,951	42,144,467
Schools – New Construction Funds	0	0	0
Schools – Small Business Funds	0	0	0
<b>Total Attributable to Schools</b>	<b>641</b>	<b>3,053,551</b>	<b>55,435,393</b>

Final savings are adjusted for line losses (9.8%).

**Benefits and Net Benefits/Performance Incentive Calculation**

The benefits and net benefits are provided in Table 2. The details for the Performance Incentive calculation are provided in Table 3.

**Problems Encountered and Proposed Solutions**

No problems were encountered during this reporting period.

**Costs Incurred**

Program costs incurred during the second half of 2006 are listed below:

<b>DSM Program</b>	<b>Rebates &amp; Incentives</b>	<b>Training &amp; Technical Assistance</b>	<b>Consumer Education</b>	<b>Program Implement*</b>	<b>Program Marketing</b>	<b>Planning &amp; Admin</b>	<b>Program Total Cost</b>
Schools	\$73,380	\$0	\$143	\$77,126	\$416	\$10,619	\$161,685

\* The following details the IC costs, which are included in the Program Implement column above.

<b>DSM Program</b>	<b>Implementation</b>	<b>Marketing</b>	<b>Education</b>	<b>Technical Services</b>	<b>Program Total Cost</b>
Schools	31,871	\$27,720	\$5,460	\$12,075	\$77,126

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **Findings from all Research Projects**

APS is currently completing work on a DSM Baseline and Market Potential study that was approved in Decision No. 67816. A final report is expected to be completed in the first quarter of 2007.

### **Other Significant Information**

APS hired KEMA to implement the Schools Program. KEMA provides direct outreach to school districts, and it has also established an agreement with the Arizona Department of Commerce Energy Office to provide additional outreach and education to all school districts with a focus on outreach to rural areas. The Energy Office already had an established data base of Arizona school districts with contact information and a policy of meeting at least once per year with each district. All Non-Residential Programs, including the Schools program, are being marketed under the name "Solutions for Business."

### Program Development

As the Solutions for Business program evolved from start-up to an implementation phase in the second half of 2006, additional program collateral materials were developed, website information and functionality were enhanced, applications and forms were improved, and project tracking and data systems were expanded. Continuing work to refine and update current materials, and create new program materials resulted in the following creation of and/ or changes to collateral materials:

- Trade Ally applications and the Policies and Procedures manual were finalized and posted to the website.
- On-line Prescriptive applications were upgraded to include automatic incentive calculations and data checks.
- Study Report Templates were completed, as well as completed "Sample" applications to use as training tools.
- Frequently Asked Questions document was developed and posted to the website.

### Marketing and Communications

Marketing activities for the Schools program consisted of four areas of focus:

1. **Trade Ally awareness, training and recruitment:** Trade Allies such as Architects, Design Engineers, HVAC and Lighting contractors are an essential part of any Demand Side Management program because they have the opportunity to provide advice to schools and influence choices in the pivotal design or buying stages for projects. Once experienced with the program, Trade Allies also have the ability to fill out program applications and provide supporting documentation as an added value to their customers. In the second half of 2006, marketing efforts directed toward Trade Allies included:

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

- a. Five Solutions for Business seminars were developed and delivered for Trade Allies. They were held in Flagstaff, Casa Grande, Yuma and Phoenix (two seminars.) Over 4000 invitations were mailed, and an ad was developed and placed in HVACR Today and the Electric Times to promote the Phoenix seminars. Additionally, a half page article appeared in the same issue, highlighting the program for the trades. Eighty-seven trade allies attended these seminars.
  - b. In order to encourage Trade Ally participation, a Trade Ally Listing was established on the Solutions for Business program website. An application and approval process was developed so that qualified Trade Allies could be listed. Prerequisites for achieving this listing included attendance at a seminar or one-on-one training by program staff, a contractor's license in good standing and reference checks.
  - c. One-on-one meetings with contractors were also pursued to both conduct training on the program and recruit as Trade Allies. During this period KEMA met with 23 individual allies in the following trades: air conditioning, lighting, engineering, architecture, building, and energy consulting.
  - d. Over 150 Trade Allies have been trained and each has received an application for the listing. Twenty Trade Allies have satisfied the program requirements and are listed on the program website. This listing is also intended to be a tool for customers who are looking for contractors with program experience.
- 2. School District awareness and project generation:** Direct marketing to school districts included one-on-one meetings with both rural and metro school districts. A list of specific school district involvement is included in the Schools Program Activities section of this report, below.
- 3. Generate Program Awareness through key Trade Shows, Events and Public Relations:** This strategy promotes the program to large numbers of attendees and sets the stage for one-on-one visits for those interested in the program. Venues were chosen for their likelihood to have qualified leads in attendance.
- a. *Arizona Green Building Expo* – This two-day trade show attracted 1,000 attendees, including customers of all sizes as well as Trade Allies. The Solutions for Business program had a booth at this event with multiple staff members available to address questions and provide program information.
  - b. *Arizona Facilities Management Show* - Solutions for Business program was promoted at the 2-day Facilities Management Show held at the Arizona Cardinals stadium. This show draws over 1,000 attendees from facilities across Arizona. In addition to marketing to attendees at the booth, team members also visited booths of several potential Trade Allies for recruitment into the program. The Solutions for Business program was also presented to attendees in one of the technical sessions.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

- c. *Written Publications:* Articles were written for Chamber of Commerce newsletters, the October issue of APS' Success Newsletter to business customers, and the trade publications The Electric Times and HVACR Today.

**4. Engage Key Organizations** such as trade associations provide targeted networking opportunities to schools or trade allies who may be predisposed to getting involved with the program. Key organizations engaged by the Solutions for Business program in the second half of 2006 include:

- Green Building Council, Arizona Association of Economic Developers, Arizona Department of Environmental Quality, the Electric League of Arizona, Arizona Energy Engineers, the Air Conditioning Contractors of Arizona, and Valley Forward.

### **Schools Program Activities in this Reporting Period include:**

School Districts have demonstrated a healthy level of program participation in the last six months. One rural and three metro school districts received incentive payments. Of those, Paradise Valley and Deer Valley USD's received the largest incentive payments across all program segments.

On November 16, APS attended a Paradise Valley USD board meeting for a ceremonial check presentation of \$107,857 to the district. Approximately fifty people were in attendance.

Deer Valley received \$131,598 in incentives in 2006, which was the highest amount received by any customer across all programs.

The tables below lists the districts APS has discussions with or paid incentives to through its outreach efforts:

#### Rural and Non-metro

- Camp Verde Unified School District
- Casa Grande Elementary School District
- Canon Elementary School District
- Flagstaff Unified School District
- Humboldt Unified School District
- Mammoth San Manuel Unified School District
- Mayer Unified School District
- Payson School District
- Prescott Unified School District
- Sedona – Oak Creek Joint Unified School District
- Superior Unified School District
- Tuba City Unified School District
- Willow Creek Charter School in Prescott

#### Metro Phoenix

- Agua Fria Union High School District
- Deer Valley Unified School District
- Desert Heights Charter School of Glendale
- Dysart Unified School District No. 89

## ARIZONA PUBLIC SERVICE COMPANY

### DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

- Liberty School District
- Litchfield Elementary School District
- Murphy Elementary School District
- Osborn School District
- Palo Verde Schools
- Paradise Valley Unified School District
- Phoenix Elementary School District No. 1
- Roman Catholic Diocese in Phoenix
- Schools for Tesseract School
- Scottsdale Unified School District
- Tempe School District No. 3

In addition to individual school district outreach, program staff held multiple meetings with the Arizona School Facilities Board ("ASFB"). The program was presented to ASFB staff members, and at follow up meetings.

We also provided further training and assisted ASFB staff members in incorporating the Solutions for Business program in their new construction and renovation plans for Arizona schools. The ASFB has since increased their requirements for new schools. They must now meet the ASHRAE 90.1-2004 Energy Standard for new construction. The Architect/Engineering team must provide a COMcheck report saying that they have met the requirements. The ASFB has decided that they will require SEER 13 package units and will pay for SEER 14 if incentives are available. They will also pay for premium T8 lighting. Many of their recommendations mirror the APS Incentive program.

An announcement about the Solutions for Business program went out to all Charter Schools in September. In addition, the Energy Office staff presented the APS program at the "call to the public" at the November monthly meeting of the State Board for Charter Schools.

# ARIZONA PUBLIC SERVICE COMPANY

## DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD: JULY THROUGH DECEMBER 2006

### **PORTFOLIO PLANNING: DSM MEASUREMENT, EVALUATION AND RESEARCH**

#### **Description**

There are currently two major efforts within Measurement, Evaluation and Research (MER):

- Baseline and Market Potential Study.
- Ongoing Measurement and Evaluation of the current DSM programs.

The Baseline and Market Potential Study is currently being finalized. This study will identify current baseline efficiency levels and the market potential of DSM measures.

Summit Blue has been hired to provide the DSM program Measurement and Evaluation services. These Measurement and Evaluation activities will:

- perform process evaluation to indicate how well programs are working to achieve objectives.
- verify that energy-efficient measures are installed as expected.
- track savings measurement to monitor the actual program savings that are achieved.
- research activities to identify additional opportunities for energy efficiency.

In addition to these activities Summit Blue is also providing evaluation support for the 13 Month Filing that is due on March 23, 2007.

The approach for measurement and evaluation of the DSM programs will be to integrate data collection and tracking activities directly into the program implementation process.

#### **Program Modifications**

Not applicable.

#### **Program Goals, Objectives and Savings Targets**

Not applicable.

#### **Programs Terminated**

Not applicable.

#### **Levels of Participation**

Not applicable.

#### **Evaluation and Monitoring Activities and Results**

The Baseline and Market Potential Study is being finalized by ICF Consulting and will be completed in the first quarter of 2007. The DSM program Measurement and Evaluation activities have been kicked off during the second half of 2006. Research plans are under development and will be finalized in the first quarter of 2007. The process evaluation and verification of savings is an ongoing activity and will continue through 2007. See specific program sections for additional information.

#### **kW and kWh Savings**

Not applicable.

**ARIZONA PUBLIC SERVICE COMPANY**

**DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD:  
JULY THROUGH DECEMBER 2006**

**Benefits and Net Benefits/ Performance Incentive Calculation**

Not applicable.

**Problems Encountered and Proposed Solutions**

Not applicable.

**Costs Incurred**

Total costs incurred for Measurement and Evaluation during this reporting period were \$326,510.

**Findings from all Research Projects**

APS is currently completing work on a DSM Baseline and Market Potential study that was approved in Decision No. 67816. A final report is expected to be completed in the first quarter of 2007.

**Other Significant Information**

None.

**ARIZONA PUBLIC SERVICE COMPANY**

**DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD:  
JULY THROUGH DECEMBER 2006**

**Table 4  
DSM Program Expenses: January – December 2006**

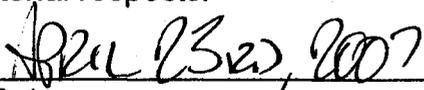
<b>DSM Program</b>	<b>Rebates &amp; Incentives</b>	<b>Training &amp; Technical Assistance</b>	<b>Consumer Education</b>	<b>Program Implementation</b>	<b>Program Marketing</b>	<b>Planning &amp; Admin</b>	<b>Program Total Cost</b>
<b>Residential</b>							
Low Income	\$469,625	\$4,609	\$2,985	\$72,939	\$4,815	\$63,797	\$618,770
Res Existing Homes HVAC	\$439,400	\$69,140	\$144,512	\$105,039	\$266,271	\$33,134	\$1,057,496
Res New Home Construction	\$65,603	\$58,990	\$6,686	\$53,318	\$220,696	\$56,808	\$462,101
Consumer Products	\$1,356,929	\$0	\$1,582	\$337,232	\$139,044	\$73,164	\$1,907,951
<b>Totals for Residential</b>	<b>\$2,331,557</b>	<b>\$132,739</b>	<b>\$155,765</b>	<b>\$568,528</b>	<b>\$630,826</b>	<b>\$226,903</b>	<b>\$4,046,318</b>
<b>Non-Residential</b>							
Large Existing Facilities	\$759,971	\$2,446	\$4,639	\$739,337	\$8,298	\$125,640	\$1,640,331
Large Non Res New Const	\$62,480	\$3,072	\$2,065	\$928,981	\$8,160	\$120,469	\$1,125,227
Small Business	\$62,240	\$0	\$1,551	\$509,006	\$7,371	\$62,602	\$642,770
Bldg Operator Training	\$0	\$23,288	\$0	\$10,931	\$4,360	\$1,578	\$40,157
Energy Information Svcs	\$0	\$0	\$0	\$12,971	\$0	\$11,324	\$24,295
Schools	\$73,380	\$0	\$151	\$110,210	\$441	\$23,360	\$207,542
<b>Total for Non-Residential</b>	<b>\$958,071</b>	<b>\$28,806</b>	<b>\$8,406</b>	<b>\$2,311,436</b>	<b>\$28,630</b>	<b>\$344,973</b>	<b>\$3,680,322</b>
<b>Segment Totals</b>	<b>\$3,289,628</b>	<b>\$161,545</b>	<b>\$164,171</b>	<b>\$2,879,964</b>	<b>\$659,456</b>	<b>\$571,876</b>	<b>\$7,726,640</b>
<b>Program Costs</b>							<b>\$7,726,640</b>
<b>Measurement, Evaluation, &amp; Research (MER)</b>							<b>\$654,124</b>
<b>Performance Incentive</b>							<b>\$2,161,547</b>
<b>TOTAL</b>							<b>\$10,542,311</b>

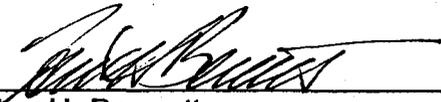
**ARIZONA PUBLIC SERVICE COMPANY**

**DSM SEMI-ANNUAL PROGRESS REPORT FOR THE PERIOD:  
JULY THROUGH DECEMBER 2006**

**CERTIFICATION BY APS  
OF  
DSM SEMI-ANNUAL PROGRESS REPORT  
FOR THE PERIOD:  
JULY THROUGH DECEMBER 2006**

Pursuant to Decision No. 67744 (April 7, 2005), I certify that to the best of my knowledge and based on the information made available to me, the DSM Semi-Annual report is complete and accurate in all material respects.

  
Date

  
Jan H. Bennett  
Vice President of Customer Service



\*\* SHIP TICKET \*\*

Order #: S119967042.001  
Printed: 17:29:06EDT 09/16/05  
Page #: 1 of 2

Branch  
#7761 LAKESIDE HSI  
HUGHES SUPPLY INC  
LAKESIDE AZ 85929-5116  
928-537-5788 Fax 928-537-4753

Sold To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ship To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ordered By	Telephone	Pricing Branch	Order Date	Purchase Order #
MARK	928-537-8739	7761	09/16/05	
Salesperson	Ship Via	Ship Date	Release #	
Gary Bowles	CPU CUST PICK UP	09/16/05		
Writer	Freight Terms / FDB	Required Date		
Lorum Perkins		09/16/05		

Special Instructions \*\*\*\*\*  
\* \* \* \* \*  
\*\*\*\*\*

Ordered	Shipped	UM	FD	Product Description	Unit Price	UM	Net Amount
2	2	ea		SPEARS 436-020 2IN PVC40 SXM ADAPTER	0.740	ea	1.48
1	1	ea		SPEARS 435-020 2IN PVC40 SXF ADAPTER	0.760	ea	0.76
1	1	ea		SPEARS 448-020 2IN PVC40 FEMALE CAP	1.400	ea	1.40
* 1	1	ea		FORD Z11-333SW 3/4 CURB STOP W/WASTE	20.980	ea	20.98
6	6	ea		FORD F1101-4-G 1IN CORPORATION STOP MIP X PE GJ	34.210	ea	205.26
50	50	ea		FORD 53 OR 72 INSERT STIFFENER	1.520	ea	76.00
* 3	3	ea		ANV 3/4X12 STD GALV STEEL CW NIPPLE 0331023408	2.000	ea	6.00
* 1	1	ea		JSC C11075 3/4IPS COMPRESSION CPLG	7.320	ea	7.32
* 2	2	ea		ANV 3/4 GALV MI 90 ELL 0311001002	1.020	ea	2.04
* 1	1	ea		ANV *383-1X3/4-MI-G HEX BUSH 0319906640	1.920	ea	1.92
* 1	1	ea		FLO 831-07 3/4FIPX3/4PS F-ADPT	5.320	ea	5.32
* 1	1	ea		FLO 831-10 1FIPX1PS F-ADPT	7.870	ea	7.87

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\* = W/M with exceptions Rest is Services mostly  
TERMS AND CONDITIONS / MSDS INFORMATION ON REVERSE



**\*\* S H I P T I C K E T \*\***

Order #: S118580901.001  
 Printed: 11:46:22EDT 06/20/05  
 Page # : 1 of 1

Branch  
 #7761 LAKESIDE HSI  
 HUGHES SUPPLY INC  
 LAKESIDE AZ 85929-5116  
 928-537-5788 Fax 928-537-4753

Sold To: 196613  
 CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW, AZ 85902-1270

Ship To: 196613  
 CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW, AZ 85902-1270

Ordered By	Telephone	Pricing Branch	Order Date	Purchase Order #
LUTHER	928-537-8739	7761	06/20/05	
Salesperson	Ship Via	Ship Date	Release #	
Gary Bowles	CPU CUST PICK UP	06/20/05		
Writer	Freight Terms / FOB	Required Date		
Lorum Perkins		06/20/05		

Special Instructions \*\*\*\*\*  
 \* \* \* \* \*  
 \*\*\*\*\*

Ordered	Shipped	UM	FD	Product Description	Unit Price	UM	Net Amount
3		3ea		FORD F1101-4-G 1IN CORPORATION STOP MIP X PE GJ	32.215ea		96.65
4		4ea		FORD S71-604 BRASS SADDLE	29.557ea		118.23
50		50ea		FORD 53 OR 72 INSERT STIFFENER	1.448ea		72.40

*CG Services*

Subtotal 287.28  
 Tax 1 17.52  
 Total 304.80

Boxes	Cartons	Pieces	Pallets	Total Weight
				24.9

Total Amount Due 304.80



INVOICE

INVOICE	INVOICE NUMBER
09/16/05	S119967042.001
DUE DATE	PAGE #
10/10/05	1 of 2

REMIT TO:  
 HUGHES SUPPLY INC  
 P O BOX 79382  
 CITY OF INDUSTRY CA 91716-9382

BRANCH: 7761  
 #7761 LAKESIDE HSI  
 HUGHES SUPPLY INC  
 5069 HIGHWAY 260  
 LAKESIDE AZ 85929-5116  
 928-537-5788 Fax 928-537-4753

SOLD TO: 196613

196613

SHIP TO: 196613

7 - 2211 CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW, AZ 85902-1270

CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW AZ 85902-1270



Ordered By	Telephone	Pricing Branch	Order Date	Purchase Order Number
MARK	928-537-8739	7761	09/16/05	
Salesperson	Ship Via	Ship Date	Release Number	
Gary Bowles	CPU CUST PICK UP	09/16/05		
Writer	Bill of Lading	Terms		
Lorum Perkins		2% 10TH PROX 2% SC 30		

Ordered	Shipped	UM	FD	Product Description	Unit Price	UM	Net Amount
2		2ea		SPEARS 436-020 2IN PVC40 SXM ADAPTER	0.740	ea	1.48
1		1ea		SPEARS 435-020 2IN PVC40 SXF ADAPTER	0.760	ea	0.76
1		1ea		SPEARS 448-020 2IN PVC40 FEMALE CAP	1.400	ea	1.40
1		1ea		FORD Z11-333SW 3/4 CURB STOP W/WASTE	20.980	ea	20.98
6		6ea		FORD F1101-4-G 1IN CORPORATION STOP MIP X PE GJ	34.210	ea	205.26
50		50ea		FORD 53 OR 72 INSERT STIFFENER	1.520	ea	76.00
3		3ea		ANV 3/4X12 STD GALV STEEL CW NIPPLE 0331023408	2.000	ea	6.00
1		1ea		JSC C11075 3/4IPS COMPRESSION CPLG	7.320	ea	7.32
2		2ea		ANV 3/4 GALV MI 90 ELL 0311001002	1.020	ea	2.04

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Order #: S119703582.001  
Printed: 13:28:38EDT 08/30/05  
Page #: 1 of 2

Branch  
#7761 LAKESIDE HSI  
HUGHES SUPPLY INC  
LAKESIDE AZ 85929-5116  
928-537-5788 Fax 928-537-4753

Sold To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ship To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ordered By	Telephone	Pricing Branch	Order Date	Purchase Order #
mark	928-537-8739	7761	08/30/05	
Salesperson	Ship Via	Ship Date	Release #	
Gary Bowles	CPU CUST PICK UP	08/30/05		
Writer	Freight Terms / FOB	Required Date		
Douglas Werner		08/30/05		

Special Instructions \*\*\*\*\*  
\* \* \* \* \*  
\*\*\*\*\*

Ordered	Shipped	U#	FD	Product Description	Unit Price	U#	Net Amount
6	6ea			FORD S71-404 BRASS SADDLE	17.979ea		107.87
6	6ea			FORD F1101-4-G 1IN CORPORATION STOP MIP X PE GJ	29.659ea		177.95
1	1ea			KRYLON S03901 QUIK-MARK WB APWA BRILLIANT WHITE	2.726ea		2.73
4	4ea			SPEARS 417-010 1IN PVC40 SXS 45 ELBOW	0.455ea		1.82
12	12ea			SPEARS 406-010 1IN PVC40 SXS 90 ELBOW	0.298ea		3.58
12	12ea			SPEARS 429-010N 1IN PVC40 SXS LONG SOCKET NEST COUPLING	0.234ea		2.81
2	2ea			SPEARS 435-010 1IN PVC40 SXF ADAPTER	0.245ea		0.49
15	15ea			SPEARS 438-131 1X3/4IN PVC40 FTGXF REDUCING BUSHING	0.396ea		5.94
12	12ea			SPEARS 437-131 1X3/4IN PVC40 FTGXS REDUCING BUSHING	0.281ea		3.37
<i>SLE</i>							

\*\*\* Continued on Next Page \*\*\*



INVOICE

INVOICE	INVOICE NUMBER
08/30/05	S119703582.001
DUE DATE	PAGE #
10/10/05	1 of 2

REMIT TO:  
 HUGHES SUPPLY INC  
 P O BOX 79382  
 CITY OF INDUSTRY CA 91716-9382

BRANCH: 7761  
 #7761 LAKESIDE HSI  
 HUGHES SUPPLY INC  
 5069 HIGHWAY 260  
 LAKESIDE AZ 85929-5116  
 928-537-5788 Fax 928-537-4753

SOLD TO: 196613

196613

SHIP TO: 196613

8 - 1900 CEDAR GROVE WATER MGT

CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW AZ 85902-1270

PO BOX 1270  
 SHOW LOW, AZ 85902-1270



*Services CG*

Ordered By		Telephone	Pricing Branch	Order Date	Purchase Order Number	
mark		928-537-8739	7761	08/30/05		
Salesperson		Ship Via	Ship Date	Release Number		
Gary Bowles		CPU CUST PICK UP	08/30/05			
Writer		Bill of Lading		Terms		
Douglas Werner				2% 10TH PROX 2% SC 30		
Ordered	Shipped	UM - FD	Product Description	Unit Price	UM	Net Amount
6	6ea		FORD S71-404 BRASS SADDLE	17.979ea		107.87
6	6ea		FORD F1101-4-G 1IN CORPORATION STOP MIP X PE GJ	29.659ea		177.95
1	1ea		KRYLON S03901 QUIK-MARK WB APWA BRILLIANT WHITE	2.726ea		2.73
4	4ea		SPEARS 417-010 1IN PVC40 SXS 45 ELBOW	0.455ea		1.82
12	12ea		SPEARS 406-010 1IN PVC40 SXS 90 ELBOW	0.298ea		3.58
12	12ea		SPEARS 429-010N 1IN PVC40 SXS LONG SOCKET NEST COUPLING	0.234ea		2.81
2	2ea		SPEARS 435-010 1IN PVC40 SXF ADAPTER	0.245ea		0.49
15	15ea		SPEARS 438-131 1X3/4IN PVC40 FTGXF REDUCING BUSHING	0.396ea		5.94
*** Continued on Next Page ***						



**\*\* SHIP TICKET \*\***

Order #: S118579447.001  
 Printed: 12:47:15EDT 07/01/05  
 Page #: 1 of 1

Branch  
 #7761 LAKESIDE HSI  
 HUGHES SUPPLY INC  
 LAKESIDE AZ 85929-5116  
 928-537-5788 Fax 928-537-4753

Sold To: 196613  
 CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW, AZ 85902-1270

Ship To: 196613  
 CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW, AZ 85902-1270

Ordered By	Telephone	Pricing Branch	Order Date	Purchase Order #
MARK	928-537-8739	7761	06/20/05	
Salesperson	Ship Via	Ship Date	Release #	
Gary Bowles	CPU CUST PICK UP	07/01/05		
Writer	Freight Terms / FOB	Required Date		
Douglas Werner		06/20/05		

Special Instructions \*\*\*\*\*  
 \* INTERLINE \*  
 \* \*  
 \*\*\*\*\*

Ordered	Shipped	UM	FD	Product Description	Unit Price	UM	Net Amount
6	6ea			FORD F1101-4-G 1IN CORPORATION STOP MIP X PE GJ	32.215ea		193.29
12	12ea			FORD S71-604 BRASS SADDLE	29.557ea		354.68
20	5ea			FORD U68-43-G W/2 BA13-232W AWT	62.504ea		312.52
				***** NO FREIGHT TO CUSTOMER TRANS LOST			
4	4ea			NWD MAPS R900V2 PIT MIU 6' WIRE << ** 4 Tagged to T100698134 ** >>	116.875EA		467.50
** The following				are scheduled for future shipment:			
3 B/O	ea			NEPTWATE 12512-200 R900 V3 PIT MIU WITH 6' WIRE			
15 B/O	ea			FORD U68-43-G W/2 BA13-232W AWT			

*Services  
CG*

					Subtotal	1327.99
					Tax 1	81.01
					Total	1409.00
Boxes	Cartons	Pieces	Pallets	Total Weight		
				56.9	Total Amount Due	1409.00



**\*\* S H I P T I C K E T \*\***

Order #: S118579447.002  
 Printed: 17:05:29EDT 08/01/05  
 Page #: 1 of 1

Branch  
 #7761 LAKESIDE HSI  
 HUGHES SUPPLY INC  
 LAKESIDE AZ 85929-5116  
 928-537-5788 Fax 928-537-4753

Sold To: 196613  
 CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW, AZ 85902-1270

Ship To: 196613  
 CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW, AZ 85902-1270

Ordered By	Telephone	Pricing Branch	Order Date	Purchase Order #
MARK	928-537-8739	7761	06/20/05	
Salesperson	Ship Via	Ship Date	Release #	
Gary Bowles	CPU CUST PICK UP	08/01/05		
Writer	Freight Terms / FOB	Required Date		
Douglas Werner		06/20/05		

Special Instructions \*\*\*\*\*  
 \* INTERLINE \*  
 \* \*  
 \*\*\*\*\*

Ordered	Shipped	UM	FD	Product Description	Unit Price	UM	Net Amount
15	15	ea		FORD U68-43-G W/2 BA13-232W AWT	57.630	ea	864.45
				***** NO FREIGHT TO CUSTOMER TRANS LOST			
9	9	ea		ANV 3/4X12 STD GALV STEEL CW NIPPLE 0331023408	1.607	ea	14.46
9	9	ea		ANV 3/4 GALV MI 90 ELL 0311001002	0.915	ea	8.24
				<i>Services</i>			

					<b>Subtotal</b>	<b>887.15</b>
					Tax 1	54.12
					<b>Total</b>	<b>941.27</b>
Boxes	Cartons	Pieces	Pallets	Total Weight		
				14.2	<b>Total Amount Due</b>	<b>941.27</b>



INVOICE

INVOICE	INVOICE NUMBER
05/09/05	S115432193.001
DUE DATE	PAGE #
06/10/05	1 of 1

REMIT TO:  
 HUGHES SUPPLY INC  
 P O BOX 79382  
 CITY OF INDUSTRY CA 91716-9382

BRANCH: 7761  
 #7761 LAKESIDE HSI  
 HUGHES SUPPLY INC  
 5069 HIGHWAY 260  
 LAKESIDE AZ 85929-5116  
 928-537-5788 Fax 928-537-4753

SOLD TO: 196613

196613

SHIP TO: 196613

8 - 2945 CEDAR GROVE WATER MGT

CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW AZ 85902-1270

PO BOX 1270  
 SHOW LOW, AZ 85902-1270

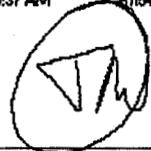


Ordered By	Telephone	Pricing Branch	Order Date	Purchase Order Number
MARK	928-537-8739	7761	04/15/05	UVB6342WG
Salesperson	Ship Via	Ship Date	Release Number	
Gary Bowles	CPU CUST PICK UP	05/09/05		
Writer	Bill of Lading	Terms		
John Mazzola		2% 10TH PROX 2% SC 30		

Ordered	Shipped	UM	FD	Product Description	Unit Price	UM	Net Amount
20		8ea		FORD U68-43-G W/2 BA13-232W AWT	62.504	ea	500.03
1		1ea		IPS 107680421 P-68-QT PURPLE PRIMER	10.554	ea	10.55
2		2ea		SPEARS 447-040 4IN PVC40 SLIP CAP	3.023	ea	6.05

CG 274.07  
**PAID** Check #: 3677  
 Dates: 6-10-05  
 CG & WC  
 WC 274.07  
**PAID** Check #: 2955  
 Dates: 6-10-05

07/10/2005 8:30:37 AM S115432193.001



MARK	<b>Subtotal</b>	516.63
HUGHES SUPPLY STOCKS OVER 350,000 DIFFERENT PRODUCTS FOR TIMELY DELIVERY	<b>Tax 1</b>	31.51
NO CREDIT WILL BE ALLOWED FOR GOODS RETURNED WITHOUT OUR PERMISSION	<b>Total</b>	548.14
ALL RETURNS SUBJECT TO RESTOCKING, HANDLING AND FREIGHT CHARGES.		
Freight Terms / FOB		
If paid by 06/10/05 you may deduct \$10.33		
	<b>Total Amount Due</b>	548.14



Order #: S113504831.001  
Printed: 10:22:40EST 12/17/04  
Page #: 1 of 1

Branch  
#7761 LAKESIDE HSI  
HUGHES SUPPLY INC  
LAKESIDE AZ 85929-5116  
928-537-5788 Fax 928-537-4753

Sold To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ship To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ordered By		Telephone		Pricing Branch		Order Date		Purchase Order #	
		928-537-8739		7761		12/17/04		SERVICES	
Salesperson		Ship Via		Ship Date		Release #			
Gary Bowles		CPU CUST PICK UP		12/17/04					
Writer		Freight Terms / FOB		Required Date					
John Mazzola				12/17/04					
Special Instructions *****									
*****									
Ordered	Shipped	UM	FD	Product Description		Unit Price	UM	Net Amount	
4	4	ea		FORD S71-604 BRASS SADDLE		24.190	ea	96.76	
4	4	ea		FORD F1101-4-G 1IN CORPORATION STOP MIP X PE GJ		26.758	ea	107.03	
<b>PAID</b> Check # 3594 Date: 2/14/05 <i>Services</i> <i>CG</i>									
						<b>Subtotal</b>		203.79	
						Tax 1		12.43	
						<b>Total</b>		216.22	
Boxes	Cartons	Pieces	Pallets	Total Weight					
				25.1		<b>Total Amount Due</b>		216.22	

**ATTACHMENT P**



Dana Kepner Company, Inc.  
Western Industrial Supply, LLC

INVOICE

UPC VENDOR	INVOICE DATE	ORDER NO.
000000	12/30/04	7104410-00
P.O. NO.		PAGE #
MARK		1

CUST.#: 24070000

SHIP TO: M GRAPP dba CEDAR GROVE WATER  
521 CENTENNIAL BLVD  
POB 1270  
SHOW LOW, AZ 85902-1270

REMIT TO: Dana Kepner Company, Inc.  
Dept. 281  
Denver, CO 80271-0281

BILL TO: M GRAPP dba CEDAR GROVE WATER  
521 CENTENNIAL BLVD  
POB 1270  
SHOW LOW, AZ 85902-1270

INSTRUCTIONS			
SHIP POINT	SHIP VIA	SHIPPED	TERMS
		12/29/04	Net 30 Days

LINE NO.	PRODUCT AND DESCRIPTION	QUANTITY ORDERED	QUANTITY B.O.	QTY. SHIPPED	QTY. U/M	UNIT PRICE	AMOUNT (NET)
1	75M02S 5/8 X 3/4" PRECISION PMM WATER METER	6	0	6	PCS	38.78	232.68
1	Lines Total	Qty Shipped Total		6		Total	232.68
						Freight Out	6.74
						Invoice Total	239.42



Dana Kepner Company, Inc.  
Western Industrial Supply, LLC

INVOICE

UPC VENDOR	INVOICE DATE	ORDER NO.
000000	09/12/05	7114805-00
P.O. NO.		PAGE #
		1

CUST.#: 24070000

SHIP TO: M GRAPP dba CEDAR GROVE WATER  
340-A North 9th Street

SHOW LOW, AZ 85902

REMIT TO: Dana Kepner Company, Inc.  
Dept. 281  
Denver, CO 80271-0281

BILL TO: M GRAPP dba CEDAR GROVE WATER

POB 1270  
SHOW LOW, AZ 85902-1270

INSTRUCTIONS			
matt r			
SHIP POINT	SHIP VIA	SHIPPED	TERMS
Destination	UPS	09/09/05	Net 30 Days

LINE NO.	PRODUCT AND DESCRIPTION	QUANTITY ORDERED	QUANTITY B.O.	QTY. SHIPPED	QTY. U/M	UNIT PRICE	AMOUNT (NET)
1	75M02S 5/8 X 3/4" PRECISION PMM WATER METER	12	0	12	PCS	38.78	465.36
2	fa FREIGHT ABSORBED OUTBOUND	1	0	1	ea.	0.00	0.00
2	Lines Total	Qty Shipped Total		13		Total Invoice Total	465.36 465.36



**Dana Kepner Company, Inc.**  
**Western Industrial Supply, LLC**

**INVOICE**

UPC VENDOR	INVOICE DATE	ORDER NO.
000000	08/03/05	7113272-00
P.O. NO.		PAGE #
		1

CUST.#: 24070000

SHIP TO: M GRAPP dba CEDAR GROVE WATER  
 340-A North 9th Street  
 SHOW LOW, AZ 85901

REMIT TO: Dana Kepner Company, Inc.  
 Dept. 281  
 Denver, CO 80271-0281

BILL TO: M GRAPP dba CEDAR GROVE WATER

POB 1270  
 SHOW LOW, AZ 85902-1270

INSTRUCTIONS			
matt r			
SHIP POINT	SHIP VIA	SHIPPED	TERMS
Destination	UPS	08/01/05	Net 30 Days

LINE NO.	PRODUCT AND DESCRIPTION	QUANTITY ORDERED	QUANTITY S.O.	QTY. SHIPPED	QTY. U/M	UNIT PRICE	AMOUNT (NET)
1	75m02s 5/8 X 3/4" PRECISION PMM WATER METER	12	0	12	PCS	38.78	465.36
2	fa FREIGHT ABSORBED OUTBOUND	1	0	1	ea.	0.00	0.00
2	Lines Total	Qty Shipped Total		13		Total Invoice Total	465.36 465.36

**PAID** Check #  
 Date:

*Paid By Credit  
 on Account  
 see statement  
 call Kepner  
 8-16-05*

# INVOICE



**KEPNER**

Dana Kepner Company, Inc.  
Western Industrial Supply, LLC

UPC VENDOR	INVOICE DATE	ORDER NO.
000000	05/25/05	7110354-00
P.O. NO.		PAGE #
		1

CUST.#: 24070000

SHIP TO: M GRAPP dba CEDAR GROVE WATER  
340-A North 9th Street

SHOW LOW, AZ 85901

REMIT TO: Dana Kepner Company, Inc.  
Dept. 281  
Denver, CO 80271-0281

BILL TO: M GRAPP dba CEDAR GROVE WATER

POB 1270  
SHOW LOW, AZ 85902-1270

INSTRUCTIONS			
matt r			
SHIP POINT	SHIP VIA	SHIPPED	TERMS
Destination	UPS	05/24/05	Net 30 Days

LINE NO.	PRODUCT AND DESCRIPTION	QUANTITY ORDERED	QUANTITY S.O.	QTY. SHIPPED	QTY. U/M	UNIT PRICE	AMOUNT (NET)
1	75m02s 5/8 X 3/4" PRECISION PMM WATER METER	12	0	12	PCS	38.78	465.36
2	fa FREIGHT ABSORBED OUTBOUND	1	0	1	ea.	0.00	0.00
2	Lines Total	Qty Shipped Total		13		Total Invoice Total	465.36 465.36

CG 232.68  
**PAID** Check # 3741  
 Date: 7-8-05 W  
 7-11-05 S  
 WC 232.68  
**PAID** Check # 2980  
 Date: 7-8-05 W  
 7-11-05 S

CG  
WC

# INVOICE



**KEPNER**

**Dana Kepner Company, Inc.  
Western Industrial Supply, LLC**

UPC VENDOR	INVOICE DATE	ORDER NO.
000000	03/23/05	7107630-00
P.O. NO.		PAGE #
		1

CUST.#: 24070000

SHIP TO: M GRAPP dba CEDAR GROVE WATER  
340-A N. 9th Street  
SHOW LOW, AZ 85901

REMIT TO: Dana Kepner Company, Inc.  
Dept. 281  
Denver, CO 80271-0281

BILL TO: M GRAPP dba CEDAR GROVE WATER

POB 1270  
SHOW LOW, AZ 85902-1270

INSTRUCTIONS			
matt r			
SHIP POINT	SHIP VIA	SHIPPED	TERMS
Destination	UPS	03/22/05	Net 30 Days

LINE NO.	PRODUCT AND DESCRIPTION	QUANTITY ORDERED	QUANTITY B.O.	QTY. SHIPPED	QTY. U/M	UNIT PRICE	AMOUNT (NET)
1	75m02s	12	0	12	PCS	38.78	465.36
2	5/8 X 3/4" PRECISION PMM WATER METER	1	0	1	ea.	0.00	0.00
	fa						
	FREIGHT ABSORBED OUTBOUND						
2	Lines Total		Qty Shipped Total	13		Total Invoice Total	465.36
							465.36

Last Page

Dana Kepner Co., Inc./Western Industrial Supply, LLC. standard terms and conditions apply. All returns must be approved and in full saleable condition. Returns will be subject to a restocking charge. Service charges will be applied to invoices that are not paid within term

# INVOICE



Dana Kepner Company, Inc.  
Western Industrial Supply, LLC

UPC VENDOR	INVOICE DATE	ORDER NO.
000000	12/17/04	7103797-00
P.O. NO.		PAGE #
		1

CUST.#: 24070000

SHIP TO: M GRAPP dba CEDAR GROVE WATER  
340 NORTH 9TH STREET

SHOW LOW, AZ 85902-1270

*602-255-0234*

REMIT TO: Dana Kepner Company, Inc.  
Dept. 281  
Denver, CO 80271-0281

BILL TO: M GRAPP dba CEDAR GROVE WATER  
521 CENTENNIAL BLVD  
POB 1270  
SHOW LOW, AZ 85902-1270

INSTRUCTIONS			
PLEASE SHIP TODAY THANK YOU			
SHIP POINT	SHIP VIA	SHIPPED	TERMS
Destination	UPS	12/15/04	Net 30 Days

LINE NO.	PRODUCT AND DESCRIPTION	QUANTITY ORDERED	QUANTITY B.O.	QTY. SHIPPED	QTY. U/M	UNIT PRICE	AMOUNT (NET)
1	75M02S 5/8 X 3/4" PRECISION PMM WATER METER	6	0	6	PCS	38.78	232.68
2	fa FREIGHT ABSORBED OUTBOUND	1	0	1	ea.	0.00	0.00
2	Lines Total			Qty Shipped Total	7	Total Invoice Total	232.68 232.68

# ATTACHMENT Q

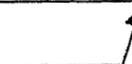
COMPANY NAME

Cedar Grove Water Inc.

**UTILITY PLANT IN SERVICE**

Acct. No.	DESCRIPTION	Original Cost (OC)	Accumulated Depreciation (AD)	O.C.L.D. (OC less AD)
301	Organization	1000		1000
302	Franchises	500		500
303	Land and Land Rights	1000		1000
304	Structures and Improvements	8500	1981	6519
307	Wells and Springs	19955	4654	15301
311	Pumping Equipment	22610	22610	0
320	Water Treatment Equipment			
330	Distribution Reservoirs and Standpipes	97856	11060	86796
331	Transmission and Distribution Mains	467679	47638	420040
333	Services	27601	17354	10247
334	Meters and Meter Installations	10810	2404	8406
335	Hydrants			
336	Backflow Prevention Devices			
339	Other Plant and Misc. Equipment			
340	Office Furniture and Equipment			
341	Transportation Equipment			
343	Tools, Shop and Garage Equipment	891	891	0
344	Laboratory Equipment			
345	Power Operated Equipment			
346	Communication Equipment			
347	Miscellaneous Equipment			
348	Other Tangible Plant			
	<b>TOTALS</b>	658401	108592	549809

This amount goes on the Balance Sheet Acct. No. 108



# ATTACHMENT R

COMPANY NAME

Cedar Grove Water Inc.

**CALCULATION OF DEPRECIATION EXPENSE FOR CURRENT YEAR**

Acct. No.	DESCRIPTION	Original Cost (1)	Depreciation Percentage (2)	Depreciation Expense (1x2)
301	Organization	1000		
302	Franchises	500		
303	Land and Land Rights	1000		
304	Structures and Improvements	8500	3.33	283
307	Wells and Springs	19955	3.33	665
311	Pumping Equipment	22610		0
320	Water Treatment Equipment			
330	Distribution Reservoirs and Standpipes	97856	2.22	2172
331	Transmission and Distribution Mains	467678	2.0	9354
333	Services	27601	3.33	919
334	Meters and Meter Installations	10810	3.33	360
335	Hydrants			
336	Backflow Prevention Devices			
339	Other Plant and Misc. Equipment			
340	Office Furniture and Equipment			
341	Transportation Equipment			
343	Tools, Shop and Garage Equipment	891		0
344	Laboratory Equipment			
345	Power Operated Equipment			
346	Communication Equipment			
347	Miscellaneous Equipment			
348	Other Tangible Plant			
	<b>TOTALS</b>	658401		13753

This amount goes on the Comparative Statement of Income and Expense Acct. No. 403.

# ATTACHMENT S

SHIP

TICKET \*\*

Order #: S11871  
Printed: 17:52=  
Page #: 1 of 2

8568.001  
09EDT 06/28/05

HSI  
NC  
29-5116  
Fax 928-537-4753

CG

Ship To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

WATER MGT

Z 85902-1270

70

Telephone	928-537-8739	Pricing Branch	7761	Order Date	06/28/05	Purchase Order #	
Ship Via	CPU CUST PICK UP	Ship Date	06/28/05	Release #			
Freight Terms / FOB		Required Date	06/28/05				

\*\*\*\*\*  
**PAID** Check # 3736  
 Date 7-8-05  
 \*\*\*\*\*

QTY	Product Description	Unit Price	Net Amount
a	MERRILL C7502 3/4X2-0 BURY YD HYD	34.842	174.21
a	ANV *1103-3/4-MI-GAL 90 ST-ELL 0311016406	1.753	3.51
a	ANV 3/4X6 STD GALV STEEL CW NIPPLE 0331021006	0.836	1.67
a	ANV *1X3/4X3/4 BLK MI TEE 0310040803	2.486	4.97
a	ANV 1X2 STD GALV STEEL CW NIPPLE 0331023804	0.532	1.06
a	ANV 1X6 STD GALV STEEL CW NIPPLE 0331025403	1.120	1.12
a	ANV 3/4X1-1/2 STD GALV STEEL CW NIPPLE 0331019208	0.340	1.02
a	ANV 1 GALV MI TEE 0311030209	2.752	2.75
a	ANV *1X1X3/4 GALV MI TEE 0311039804	3.322	3.32
a	FORD B11-444W 1IN BALL CURB STOP FIP W/LOCK WING	37.730	37.73
a	ANV 1X2 STD GALV STEEL CW NIPPLE 0331023804	0.532	0.53

ued on Next Page \*\*\*



Order #: S118718568.001  
Printed: 17:52:09EDT 06/28/05  
Page #: 2 of 2

Branch  
7761 LAKESIDE HSI  
HUGHES SUPPLY INC  
LAKESIDE AZ 85929-5116  
928-537-5788 Fax 928-537-4753

Sold To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ship To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ordered By	Telephone	Pricing Branch	Order Date	Purchase Order #
	928-537-8739	7761	06/28/05	
Salesperson	Ship Via	Ship Date	Release #	
Gary Bowles	CPU CUST PICK UP	06/28/05		
Writer	Freight Terms / FOB	Required Date		
Douglas Werner		06/28/05		

Special Instructions \*\*\*\*\*  
 \*  
 \*  
 \*\*\*\*\*

Ordered	Shipped	UM	FD	Product Description	Unit Price	UM	Net Amount
2	2	ea		FORD INSERT-71 3/4IN STIFFENER PE PIPE ONLY	1.261	ea	2.52
5	5	ea		MU-CO 024265 215 5/8X3/4X3/4"BALL ANG MTR	30.335	ea	151.68

*CG Handled water*

Subtotal	386.09
Tax 1	23.55
<b>Total</b>	<b>409.64</b>

Boxes	Cartons	Pieces	Pallets	Total Weight	Total Amount Due
				74.5	409.64



Order #: S118580741.001  
Printed: 11:51:59EDT 06/20/05  
Page #: 1 of 2

Branch  
#7761 LAKESIDE HSI  
HUGHES SUPPLY INC  
LAKESIDE AZ 85929-5116  
928-537-5788 Fax 928-537-4753

**PAID** <sup>CG</sup> Check # 3690  
Date written - 6-27-05  
Sent - 6-28-05

Sold To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ship To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ordered By	Telephone	Priority Branch	Order Date	Purchase Order #
MARK	928-537-8739	7761	06/20/05	
Salesperson	Ship Via		Ship Date	Release #
Gary Bowles	CPU CUST PICK UP		06/20/05	
Writer	Freight Terms / FOB		Required Date	
Douglas Werner			06/20/05	

Special Instructions  
\*\*\*\*\*  
\*  
\*  
\*\*\*\*\*

Ordered	Shipped	UM	FD	Product Description	Unit Price	UM	Net Amount
1	1	ea		NWD ED2F11R8G1SA51 1IN T-10 C/I BTTN DIR READ GAL PLAS REG W/STREET READ	131.116	ea	131.12
2	2	ea		FORD C38-44-2 .625 1IN METER COUPLING MSNXMIP 2-5/8IN LGTH	6.885	ea	13.77
20	20	ea		SCH40 1" 20' SE WHT BCL, 20008 WHT	0.266	ft	5.32
1	1	ea		SPEARS 435-010 1IN PVC40 SXF ADAPTER	0.252	ea	0.25
1	1	ea		SPEARS 417-010 1IN PVC40 SXS 45 ELBOW	0.468	ea	0.47
1	1	ea		SPEARS 406-010 1IN PVC40 SXS 90 ELBOW	0.306	ea	0.31
1	1	ea		SPEARS 429-015 1-1/2IN PVC40 SXS COUPLING	0.356	ea	0.36
2	2	ea		SPEARS 437-212 1-1/2X1-1/4IN PVC40 FTGXS REDUCING BUSHING	0.410	ea	0.82
1	1	ea		SPEARS 429-012 1-1/4IN PVC40 SXS COUPLING	0.330	ea	0.33
1	1	ea		SPEARS 438-168 1-1/4X1IN PVC40 FTGXF REDUCING BUSHING	0.626	ea	0.63

\*\*\* Continued on Next Page \*\*\*



Order #: S118580741.001  
Printed: 11:51:59EDT 06/20/05  
Page #: 2 of 2

Branch  
#7761 LAKESIDE HSI  
HUGHES SUPPLY INC  
LAKESIDE AZ 85929-5116  
928-537-5788 Fax 928-537-4753

Sold To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ship To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ordered By	Telephone	Pricing Branch	Order Date	Purchase Order #
MARK	928-537-8739	7761	06/20/05	
Salesperson	Ship Via	Ship Date	Release #	
Gary Bowles	CPU CUST PICK UP	06/20/05		
Writer	Freight Terms / FOB	Required Date		
Douglas Werner		06/20/05		
Special Instructions	***** * * * *****			

Ordered	Shipped	UM	FD	Product Description	Unit Price	UM	Net Amount
				<i>CG Well #1</i>			
					<b>Subtotal</b>		<b>153.38</b>
					Tax 1		9.36
					<b>Total</b>		<b>162.74</b>
Boxes	Cartons	Pieces	Pallets	Total Weight			
				12.7	<b>Total Amount Due</b>		<b>162.74</b>



\*\* SHIP TICKET \*\*

Order #: S115749627.001  
Printed: 11:24:24EDT 05/12/05  
Page #: 1 of 1

Branch  
7761 LAKESIDE HSI  
JUGHERS SUPPLY INC  
LAKESIDE AZ 85929-5116  
28-537-5788 Fax 928-537-4753

Bill To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ship To: 196613  
CEDAR GROVE WATER MGT  
PO BOX 1270  
SHOW LOW, AZ 85902-1270

Ordered By	Telephone	Pricing Branch	Order Date	Purchase Order #
HOMAAS	928-537-8739	7761	05/12/05	
Salesperson	Ship Via	Ship Date	Release #	
Mary Bowles	CPU CUST PICK UP	05/12/05		
Writer	Freight Terms / FOB	Required Date		
Richard Lewis		05/12/05		

Special instructions \*\*\*\*\*

\* \* \* \* \*

\*\*\*\*\*

Ordered	Shipped	UM	FD	Product Description	Unit Price	UM	Net Amount
1		lea		ACIPCO 2502BLAFSS 2502 SERIES RW VALVE; 02"; NRS SQUARE OPERATING NUT; OPEN LEFT; NDZ-S (9950) STEM; THREADED; BUNA N NITRILE RUBBER WEDGE COATING; 304 STAINLESS STEEL EXTERNAL BOLTING; AWWA Your # 2FIPGATE	190.399	EA	190.40
				<i>Harbin</i> <i>C.G.</i> <i>Retm</i>			

Subtotal	190.40
Tax 1	11.61
Total	202.01

**PAID** CG  
Check #: 3674  
Date: 6-10-05

Boxes	Cartons	Pieces	Pallets	Total Weight	Total Amount Due
				37.0	202.01



INVOICE

INVOICE	INVOICE NUMBER
05/11/05	S115742659.001
DUE DATE	PAGE #
06/10/05	1 of 1

REMIT TO:  
 HUGHES SUPPLY INC  
 P O BOX 79382  
 CITY OF INDUSTRY CA 91716-9382

BRANCH: 7761  
 #7761 LAKESIDE HSI  
 HUGHES SUPPLY INC  
 5069 HIGHWAY 260  
 LAKESIDE AZ 85929-5116  
 928-537-5788 Fax 928-537-4753

SOLD TO: 196613

196613

SHIP TO: 196613

8 - 2395 CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW, AZ 85902-1270

CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW AZ 85902-1270



Ordered By	Telephone	Pricing Branch	Order Date	Purchase Order Number
MARK	928-537-8739	7761	05/11/05	MC CLURE
Salesperson	Ship Via	Ship Date	Release Number	
Gary Bowles	CPU CUST PICK UP	05/11/05		
Writer	Bill of Lading	Terms		
Douglas Werner		2% 10TH PROX 2% SC 30		

Ordered	Shipped	U/M	FD	Product Description	Unit Price	U/M	Net Amount
1		lea		ACIPCO 2506BLAFFMU 2506 SERIES RW VALVE; 06"; NRS SQUARE OPERATING NUT; OPEN LEFT; NDZ <sub>R</sub> S (9950) STEM; FLG X MJ; BUNA N NITRILE RUBBER WEDGE COATING; 304 STAINLESS STEEL EXTERNAL BOLTING; UL/FM Your # 6MJXFLGATE	342.469	ea	342.47

**PAID** *3675*  
*6-10-05*  
*CG*  
*Copy filed*  
*7-7-05*

67112005343.01FM S115742659.001

MARK	Subtotal	342.47
HUGHES SUPPLY STOCKS OVER 350,000 DIFFERENT PRODUCTS FOR TIMELY DELIVERY	Tax 1	20.89
NO CREDIT WILL BE ALLOWED FOR GOODS RETURNED WITHOUT OUR PERMISSION	Total	363.36
ALL RETURNS SUBJECT TO RESTOCKING, HANDLING AND FREIGHT CHARGES		
Freight Terms / FOB		
If paid by 06/10/05 you may deduct \$6.85		
	Total Amount Due	363.36

# INVOICE

INVOICE	INVOICE NUMBER
05/09/05	S115432193.001
DUE DATE	PAGE #
06/10/05	1 of 1

BRANCH: 7761  
 #7761 LAKESIDE HSI  
 HUGHES SUPPLY INC  
 5069 HIGHWAY 260  
 LAKESIDE AZ 85929-5116  
 928-537-5788 Fax 928-537-4753

SHIP TO: 196613  
 8 - 2945 CEDAR GROVE WATER MGT  
 PO BOX 1270  
 SHOW LOW, AZ 85902-1270

9382

196613

|||||

Qty	Pricing Branch	Order Date	Purchase Order Number
8739	7761	04/15/05	UVB6342WG
SHIP VIA		SHIP DATE	RELEASE NUMBER
PICK UP		05/09/05	
BILL OF LADING		TERMS	
		2% 10TH PROX 2% SC 30	
Item Description	Unit Price	U/M	Nat Amount
/2 BA13-232W AWT	62.504	ea	500.03
-68-QT PURPLE PRIMER	10.554	ea	10.55
4IN PVC40 SLIP CAP	3.023	ea	6.05
<p>G 274.07  <b>ID</b> Check #: 3677            Date: 6-10-05</p> <p>JWC            C 274.07  <b>ID</b> Check #: 2955            Date: 6-10-05</p>			
<b>Subtotal</b>			<b>516.63</b>
TAX FOR TIMELY DELIVERY			Tax 1 31.51
WITHOUT OUR PERMISSION			<b>Total 548.14</b>
AND FREIGHT CHARGES			
C \$10.33			
<b>Total Amount Due</b>			<b>548.14</b>

STATEMENT



MESA • APACHE JUNCTION  
 CASA GRANDE • PAYSON • PHOENIX  
 SCOTTSDALE • FLAGSTAFF  
 SHOW LOW • SURPRISE  
 TELEPHONE: (480) 834-5817  
 FAX: (480) 834-0432

CEDAR GROVE WATER CO.  
 P.O. BOX 1270  
 SHOW LOW, AZ 85902

PLEASE REMIT TO:

**CENTRAL ARIZONA SUPPLY**  
 208 S. Country Club  
 Mesa, Arizona 85210-1248

Telephone: (480) 834-5817  
 Fax: (480) 834-0432

STATEMENT DATE	ACCOUNT NUMBER
12/27/04	3500

01-0048150 2009

PLEASE CHECK OFF EACH INVOICE THAT IS BEING PAID BY THIS CHECK.

STATEMENT DATE	ACCOUNT NUMBER	PAYMENTS REC. THIS MONTH
12/27/04	3500	0.00

AMOUNT PAID \$ \_\_\_\_\_

DATE	LOC.	INVOICE NO.	CHARGES	CREDITS
11/08/04	SL	27702901	4.44	
11/09/04	SL	27738401	62.09	
11/29/04	SL	29032001	29.91	
11/30/04	SL	29179901	165.01	
12/13/04	SL	30046701	21.09	
12/26/04		4722FC	1.00	

INVOICE NO.	CHARGES	CREDITS
27702901	4.44 WE	
27738401	62.09 Split 3604-360	
29032001	29.91 CG	
29179901	165.01 CG	
30046701	21.09 WC	
4722FC	1.00	

*WC*  
**PAID** Check #: 2829  
 Date: 1-06-05 53.13  
*CG*  
**PAID** Check #: 3543  
 Date: 1-06-5 230.41

BALANCE DUE	CURRENT	30 - 60
283.54	217.01	66.53
61 - 90	91 & OVER	FUTURE
0.00	0.00	0.00

PLEASE DETACH AND RETURN THIS PORTION WITH YOUR PAYMENT BY THE 10th.



PLEASE REMIT TO:

# INVOICE

## CENTRAL ARIZONA SUPPLY

208 S. Country Club Drive • Mesa, Arizona 85210-1248  
 Phone: (480) 834-5817 • Fax (480) 834-0432

APACHE JUNCTION      CASA GRANDE      FLAGSTAFF      PAYSON      PHOENIX  
 SCOTTSDALE              SURPRISE              SHOW LOW

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CEDAR GROVE WATER CO.  
 P.O. BOX 1270  
 SHOW LOW, AZ 85902

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JOB NAME:

ACCOUNT NO.	INVOICE NO.	PAGE NO.	INVOICE DATE	LOCATION	SALESMAN	TAKEN BY	TERMS	ORDER DATE
3500	30046701	1	12/13/04	SL	001	HML	DUE 10TH FOLLOWING MONTH	12/13/04
CUSTOMER PURCHASE ORDER NO.			ORDERED BY / JOB			SHIP VIA		DATE SHIPPED
			LUTHER			Will Call		12/13/04

QUANTITY		DESCRIPTION	T	PRICE	UNIT	AMOUNT
ORDERED	SHIPPED					
80	80	1IN-PVC SCH-40-PIPE		0.2585	FT	20.68
3	3	447-007 3/4 SLIP PVC S40 CAP		0.1376	EA	.41

A SERVICE CHARGE OF 1½% PER MONTH (18% PER ANNUM) WILL BE ASSESSED ON UNPAID PAST DUE BALANCES. PURCHASER AGREES TO PAY REASONABLE COSTS OF COLLECTION, INCLUDING ATTORNEY FEES, ON PAST DUE ACCOUNTS.						SUBTOTAL	21.09
						SALES TAX	.00
						TRANSPORTATION	.00
						<b>AMOUNT DUE</b>	<b>21.09</b>

A RESTOCKING CHARGE OF 15% WILL BE MADE ON ALL RETURNED GOODS UNLESS RETURNED BECAUSE OF DEFECT OR ERROR ON OUR PART. RETURN OF NON-STOCK ITEMS IS SUBJECT TO SUPPLIER'S APPROVAL AND RESTOCKING CHARGE. CLAIMS MUST BE MADE WITHIN FIVE DAYS AND MUST BE ACCOMPANIED BY THIS INVOICE. NO ALLOWANCES WILL BE MADE FOR LABOR, DAMAGES OR OTHER CLAIMS.

# ATTACHMENT T



INVOICE  
March 31, 2004

To: Mark Grapp  
Cedar Grove Water Co. North  
P.O. Box 876  
Taylor, Arizona 85939

Remit: Ken Isaacson  
Isaacson Engineering Company  
P.O. Box 1042  
St. Johns, Arizona 85936

Sunrise Vista West System – Pressure Test, Final Inspection, A.D.E.Q. ECC submittal

Engineering 5 hours @ \$75/hr \$375

**TOTAL DUE** **\$375**

**Julie, please add this total to my bill and send me a balance owed.**  
**thanks**

INVOICE  
June 19, 2003

To: Mark Grapp  
Cedar Grove Water Co. North  
P.O. Box 876  
Taylor, Arizona 85939

Remit: Ken Isaacson  
Isaacson Engineering Company  
P.O. Box 1042  
St. Johns, Arizona 85936

250<sup>00</sup> mo.  
look over old billing

Engineering for 300,000 gallon water storage tank

Engineering 20 hours @ \$65/hr \$1,300  
Drafting 15 hours @ \$25/hr \$ 375

Engineering - tie between North and South

Engineering 10 hours @ \$65/hr \$ 650

Engineering for Bourdon Ranch System

Engineering 30 hours @ \$65/hr \$1950  
Drafting 10 hours @ \$25/hr \$ 250

Engineering for Sunrise Vista West System

Engineering 15 hours @ \$65/hr \$975  
Drafting 16 hours @ \$25/hr. \$400

**TOTAL DUE** \$5,900

WC-2,200.<sup>00</sup>  
CG-3,700.<sup>00</sup> less 1,585 CR already Pd. = 2,115.<sup>00</sup>  
(See Folder)

**PAID** Check #: 3169 C.G.  
Date: 8-14-03

**PAID** Check #: 2438 WC  
Date: 8-14-03

WC-125.<sup>00</sup>  
**PAID** Check #: 2506  
Date: 12-8-03

CG-125.<sup>00</sup>  
**PAID** Check #: 3246  
Date: 12-8-03

12-11-03 = CG Bal - 1490.<sup>00</sup>  
12-11-03 = WC Bal -

Ken Issacson Billings PO Box 1042, St. Johns, AZ 85936

DATE	INVOICED	PAID	CHECK #	BALANCE DUE
Balance Forward		750.00		CR \$1,585.00
Invoice June 19, 2003	\$3700.00 to CG			\$2,115.00
Invoice June 19, 2003	\$2,200.00 to WATCO			\$4,315.00
8-14-03	Paid-CG	500. <sup>00</sup>	31169	3,815.00
8-14-03	Paid-WC	500. <sup>00</sup>	2438	3,315. <sup>00</sup>
12-8-03	Paid-CG	125.-	3246	3,190.-
12-8-03	Paid-WC	125.-	2506	3,065.-
1-8-04	Paid-WC	250.-	2522	
2-4-04	Paid-WC	250.-	2536	
3-16-04	Paid-WC	250. <sup>00</sup>	2567	
5-11-04	Paid-WC	250.-	2622	
6-7-04	Paid-CG	250.-	3352	
6-7-04	Paid-WC	250.-	2652	
7-12-04	Pd-CG	125.-	3392	
7-12-04	Pd-WC	125.-	2672	
10-11-04	Pd-WC	250.-	2758	
10-11-04	Pd-CG	250.-	3468	
12-10-04	Pd-CG	250.-	3511	
12-10-04	Pd-WC	250.-	2805	<del>315.<sup>00</sup> 8450</del>
1-10-05	Pd-CG	200.-	3550	
1-10-05	Pd-WC	200.-	2835	<del>445.<sup>00</sup></del>
2-8-05	Pd-CG	222.50	3584	<del>0</del>
2-8-05	Pd-WC	222.50	2856	
	Final			

**PAID** Check #:  
Dates:

Final  
2/8/05

**BEST Accounting Solutions**

Post Office Box 2252  
2504 Parkinson Road  
Lakeside AZ 85929  
866-293-5974/602-418-3653

**Invoice**

Invoice #: 481  
Invoice Date: 8/9/2005  
Due Date: 8/10/2005  
Case:  
P.O. Number:

**Bill To:**

Ceder Grove Water  
PO Box 876  
Taylor, AZ 85939

Description	Hours/Qty	Rate	Amount
Quick Books Pro 2005 Edition-Sam's Club in Gilbert Shipping from Mesa AZ		215.47 7.15	215.47 7.15
<p>WC <b>PAID</b> Check #: 3003 Date: 8-10-05</p> <p>CG <b>PAID</b> Check #: 3770 Date: 8-10-05</p>			

**Total** \$222.62

**Payments/Credits** \$0.00

**Balance Due** \$222.62

<b>WHITE MOUNTAIN PASSENGER LINE INC.</b> P.O. Box 460 • SHOW LOW, ARIZONA 85902		BUSBILL# 068579		FORWARD AGENT: <i>Mesa</i>	
TO: CITY: <i>Showlow</i> ARIZONA	DATE: MONTH <i>8</i> DAY <i>9</i> YEAR <i>05</i> TIME <i>12:30</i> PM	CONTENTS: <i>Software</i>		PREPAID	CHARGES
NAME: <i>David / Lyndee / Mark</i>	ACTUAL WEIGHT: <i>1</i> LBS.	TARIFF WEIGHT: <i>1</i> LBS.			COLLECT
ADDRESS: <i>Showlow</i>	NO. OF PIECES: <i>1</i>			\$ <i>7.15</i>	EXPRESS CHARGES \$
PHONE: <i>928-537-2739</i>	TYPE (CIRCLE ONE) ENVELOPE SACK BAGGAGE CARTON OTHER			\$	CHARGES ADVANCED \$
	TARIFF INFORMATION X X = CU. IN.			\$	PICK-UP \$
FROM: NAME: <i>Joseph Tames</i>	CUSTOMER NOTIFIED:			\$	DELIVERY \$
ADDRESS: <i>POB 2252</i>				\$	VALUE CHARGES \$
CITY: <i>Lakeside</i> ARIZONA					COLLECT FEE \$
Copies Go To: 1. White-Shipper's 2. Green-Delivery 3. Yellow-Agent's 4. Pink-Customer 5. Gold-Package	(NOT NEGOTIABLE) SUBJECT TO TARIFF REGULATION LIABILITY: This carrier will not pay loss or damage claims over \$100 per shipment or \$50 per package, whichever is greater, unless a greater value is declared and charges for such greater value is paid. Maximum valuation on any shipment is limited by tariff.		D.V.:		
			WMP:	\$ <i>7.15</i>	GRAND TOTAL \$
RECEIVED IN GOOD ORDER UNLESS SPECIFIED.					
X _____ SIGNATURE					

Our Business Is Saving  
Your Business Money.™



CLUB MANAGER KEITH LOWE  
( 480 ) 926 - 9006  
Fax and Pull # (480)497-5061  
GILBERT-PHOENIX, AZ  
08/09/05 12:01 9712 6605 006 1290  
W MEMBER 101-22261849400

**THANK YOU,**  
DAVID E. WRIGHT PC

02710 QB PRO 2005 *plus* 199.88 T  
SUBTOTAL 199.88  
TAX 1 7.800 % 15.59  
TOTAL 215.47  
DEBIT TEND 215.47  
CHANGE DUE 0.00

EFT DEBIT PAY FROM PRIMARY  
ACCOUNT : 4056  
15.47 TOTAL PURCHASE  
REF # 522100604764  
NETWORK ID. 0056 APPR CODE 020998  
08/09/05 12:02:17

# ITEMS SOLD 1

TC# 6689 8786 3697 0037 2110 1



We are open on Labor Day!  
08/09/05 12:02:19

\$7.15

215.47

\$222.62

**Joseph M. Tames, Tax Practitioner**

BEST Accounting Solutions  
Post Office Box 2252 // 2504 Parkinson Rd  
Lakeside AZ 85929  
Toll Free: 866-293-5974

03/04/2005

Grapp, Mark

Date	Time	Description	Hrs/Per	Rate	Amount
MAR05		Monthly Accounting Agreement		300.00	300.00
03/04/05		QB Training		25.00	25.00

2885.325.00

3-11-05

It is customary to pay for services at the time they are rendered. Please make checks payable to "Joseph M. Tames."

Federal Tax Identification Number  
86-1042130

Balance Due ~~\$325.00~~

DUE DATE 03/04/2005

JNJ Accounting & Tax Services Inc.

PO Box 1677  
Overgaard, AZ 85933

# Invoice

Date	Invoice #
9/15/2005	4431

Bill To
Four Star Land & Water, Inc. PO Box 1270 Show Low AZ 85902

P.O. No.	Terms	Project

Quantity	Description	Rate	Amount
5	Tax Preparation for 2004	60.00	300.00
	<b>PAID</b> Check # Date: 3040 we 10-6-05		
	<b>PAID</b> Check # Date: 3809 CG 10-6-05		
<b>Total</b>			\$300.00

JNJ ACCOUNTING & TAX SERVICES  
PO BOX 1677  
OVERGAARD, AZ 85933  
(928) 535-6076  
JNJACCOUNTING@FRONTIERNET.NET

October 10, 2005

MARK E & BARBARA L GRAPP  
PO BOX 830  
TAYLOR, AZ 85939

Statement of Charges for Services Rendered:

Per Form Charges:

Total form charges - Federal	430.00
Total form charges - Arizona	40.00
<b>Total fee</b>	<b>\$ 470.00</b>

CG 235.00  
PAID Check #/s ~~3054~~ 3835  
Dates 10-27-05W  
CG 235.00 10-28-05 S  
PAID Check #/s ~~3055~~ 3056  
Dates 10-27-05W

JNJ Accounting & Tax Services Inc.

# Invoice

PO Box 1677  
Overgaard, AZ 85933

Date	Invoice #
9/15/2005	4432

<b>Bill To</b>
Four Star Land & Water, Inc. PO Box 1270 Show Low AZ 85902

P.O. No.	Terms	Project

Quantity	Description	Rate	Amount
20	Organize Jan.-Aug. 2005	60.00	1,200.00
<p><b>PAID</b>                      CR #3040 water                      +                      CR 389 Caden House water</p>			
<b>Total</b>			\$1,200.00

**ATTACHMENT U**

2005 TAX NOTICE

JAN. 1, 2005  
TO  
DEC. 31, 2005

COUNTY OF APACHE

ARIZONA

ADDRESS: P O BOX 699  
ST JOHNS AZ 85936

LEGAL DESCRIPTION: SECTION TWN RNG ACRES .06 USE 5500  
TOTAL VALUE OF OPERATING PROPERTY  
106-53-009-N 13,637

TAX ROLL NUMBER 52113
PARCEL IDENTIFICATION 901-60-900 1
TAX AREA CODE 0900

*Handwritten:* \$3,178.51  
DUE  
PAST CE 1/2 CG  
\$1422.57

IMPORTANT - SEE REVERSE SIDE FOR COMPLETE EXPLANATION OF YOUR 2005 TAX NOTICE AND PAYMENT INSTRUCTIONS.

901-60-900 1 52113

CEDAR GROVE WATER  
ATTN: MARK GRAPP  
P O BOX 1270  
SHOW LOW AZ 85902

*Handwritten:* 12/14/05 = Total Due - 2882.97  
1/2 = 1460.45



06-5501

PRIMARY AD VALOREM TAX	2,200.64
LESS STATE AID TO EDUCATION	.00
NET PRIMARY AD VALOREM TAX	2,200.64
SECONDARY AD VALOREM TAX	644.40
SPECIAL DISTRICT TAX	.00

PAY TOTAL OR HALF TAX

TOTAL TAX DUE	2,845.04
HALF TAX	1,422.52

DELINQUENT DATES

1st HALF NOV. 1, 2005  
2nd HALF MAY 1, 2006

THIS IS THE ONLY NOTICE YOU WILL RECEIVE  
NO RECEIPT WILL BE SENT UNLESS REQUESTED

ITEM	LIMITED VALUE	ASSMT.%	ASSESSED VALUE	EXEMPTION	TAX RATE	AD VALOREM TAX
LAND, BLDGS, ETC.	15,524	25.0	3,881	0	6.1556	238.91
PERSONAL PROPERTY	127,476	25.0	3,186.9	0	6.1556	196.173
<b>TOTALS</b>	<b>143,000</b>		<b>3,575.0</b>			<b>2,200.64</b>

ITEM	FULL CASH VALUE	ASSMT.%	ASSESSED VALUE	EXEMPTION	TAX RATE	AD VALOREM TAX
LAND	13,637	25.0	3,409	0	1.8955	64.62
BLDGS, ETC.	1,887	25.0	472	0	1.8955	8.94
PERSONAL PROPERTY	127,476	25.0	3,186.9	0	1.7912	570.84
<b>TOTALS</b>	<b>143,000</b>		<b>3,575.0</b>			<b>644.40</b>

TAX CODE	TAX JURISDICTION	2005 PRIMARY	2005 SECONDARY	2005 TOTAL	2004 TOTAL	DIFFERENCE
02000	APACHE COUNTY	320.19	404.58	724.77	544.06	180.71
05009	VERNON SD #9	1880.45	00.00	1880.45	1284.96	595.49
11900	FIRE DISTRICT ASSISTANCE FUND	00.00	21.02	21.02	17.73	3.29
14900	APACHE COUNTY LIBRARY DISTRICT	00.00	107.50	107.50	76.52	30.98
15000	APACHE FLOOD CONTROL DISTRICT	00.00	4.05	4.05	5.06	-1.01
28000	APACHE COUNTY JAIL DISTRICT	00.00	71.50	71.50	60.50	11.00
28002	JUVENILE JAIL DISTRICT	00.00	35.75	35.75	29.53	6.22
	<b>TOTALS</b>	<b>2,200.64</b>	<b>644.40</b>	<b>2,845.04</b>	<b>2,018.36</b>	<b>826.68</b>

TEAR OFF ALONG DOTTED LINES

TEAR OFF ALONG DOTTED LINES

**ATTACHMENT V**

**Current Employees**

*Mark Grapp, President and Manager, 27,987.97*

Salary

Oversees all aspects of office and field duties

*Thomas Grapp, Assistant Manager, 5,217.47*

Hourly Rate: 12.50

Duties including, but not limited to, coordination of meter reading, field work including shut offs and turn ons, various office duties as assigned and assisting the Manager with additional research as required.

- Oversees and assists with meter reading, field work (shut offs, turn ons, water leak repairs)
- General Office Duties as assigned
- Research

*Lori Baker, Office Assistant, 433.75*

Hourly Rate: 10.00 – 10.25

Office duties include, but are not limited to, filing, data entry, telephones, greeting customers, ensuring correct application of customer payments, accounts payables and receivables, billing, maintenance and operation of office equipment and other duties as assigned.

- Billing
- Accounts Payables
- Accounts Receivables
- General Office Duties

*Ty Harmon, Serviceman, 3,080.38*

Hourly Rate: 7.00

Under direction of Manager and Assistant Manager performs field duties relative to meter readings, turn ons, shut offs and other field duties as required.

- Turn Ons
- Shut Offs
- Meter Readings
- Leak Repairs

Temporary Employees

*Barbie Grapp, Part Time – Office Assistant (As Needed), 402.66*

Hourly Rate: 9.00

Office duties including, but not limited to, filing, data entry, telephones, greeting customers, ensuring correct application of customer payments, accounts payables and receivables, billing, maintenance and operation of office equipment and other duties as assigned.

- Billing
- Accounts Payables
- Accounts Receivables
- General Office Duties

*Mark Grapp II, Serviceman, 175.00*

Hourly Rate: 10.00

Under direction of Manager and Assistant Manager performs field duties relative to meter readings, turn ons, shut offs and other field duties as required.

- Turn Ons
- Shut Offs
- Meter Readings
- Leak Repairs

*Richard Grapp, Serviceman, 357.00*

Hourly Rate: 11.00

Under direction of Manager and Assistant Manager performs field duties relative to meter readings, turn ons, shut offs and other field duties as required.

- Turn Ons
- Shut Offs
- Meter Readings
- Leak Repairs

**Former Employees**

*Jeffrey Feflsted, Serviceman, 733.15*

Hourly Rate: 8.00 – 10.35

Under direction of Manager and Assistant Manager performs field duties relative to meter readings, turn ons, shut offs and other field duties as required.

- Turn Ons
- Shut Offs
- Meter Readings
- Leak Repairs

*Lyndee Grapp, Part Time Office Assistant, 4,120.72*

Hourly Rate: 7.00 – 8.25

Office duties including, but not limited to, filing, data entry, telephones, greeting customers, ensuring correct application of customer payments, accounts payables and receivables, billing, maintenance and operation of office equipment and other duties as assigned.

- Billing
- Accounts Payables
- Accounts Receivables
- General Office Duties

*David Thrasher, Office Assistant, 7,682.51*

Hourly Rate: 6.50 – 7.25

Office duties including, but not limited to, filing, data entry, telephones, greeting customers, ensuring correct application of customer payments, accounts payables and receivables, billing, maintenance and operation of office equipment and other duties as assigned.

- Billing
- Accounts Payables
- Accounts Receivables
- General Office Duties

**Former Employees Cont.**

*Luther Quintana, Serviceman, 1,125.50*

Hourly Rate: 11.00 – 12.00

Under direction of Manager and Assistant Manager performs field duties relative to meter readings, turn ons, shut offs and other field duties as required.

- Turn Ons
- Shut Offs
- Meter Readings
- Leak Repairs

**ATTACHMENT W**

**Current Employee:**

**Thomas Grapp**



Thomas

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
May 7	7 AM	8 PM	PM 1/2 <del>2 1/2</del>	Flush
		(10 hrs)	CG 2 Yard	Trencher
			CG 2 1/2 Grabs	Cleanup
May 9	8 AM	6 PM	WC SL 4 8458 Big Bear	Replace Service
		(8 hrs)	CG 4 Kincaid	Cleanup
May 10	8 AM 3 PM	10 PM 5 PM	CG 2 Yard	Trencher
		(4 hrs)	Barren + CG 2 Bishop (3312)	Clear Row
May 11	7 AM	6 PM	CG 3 1/2 Huso	Service Install
		(10 hrs)	CG 2 1/2 Yard	Trencher
			Barren, Bishop, McClure	
			CG 2 Yard	Put together Fittings
			CG 2 Barren + Bishop (3312)	Clear Row
May 12	10 AM	8 PM	CG 1 1/2 Barren + Bishop (3312)	Clear Row
		(9 hrs)	Barren, Bishop, McClure CG 1/2 Yard	Put together Fittings
			CG 1 Grabs	Cleanup
			CG 6 Barren + Bishop (3312)	Dig Ditch
May 16	8 AM	6 PM	PM 5 Yard	Clean Storage Tank
		(5 hrs)		
	CG = 36 1/2	WC SL = 4		PM = 5 1/2





Thomas

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
6/28/05	6	8	SL	Quail, man (x2) [2] Fill (eats)
	8	7	CG	Fade (CRUJ 143) [2] Bishop [2]
				Howell [1] Trella Culvert [2] Bachhoe Mant [1]
6/29/05	7	7:30	SL	Check Well Check Mtr Rock [1/2]
	8	7:00	CG	McClure MEx [10]
6/30/05	8	7	CG	McClure MEx [10]
7/1/05	8	1	CG	McClure MEx [5]
	2	4	CG	Rock Tnt by Wells [1]
	4	8	CG	Service on Disturb [1]
			SL -	2 1/2
			CG -	4 1/2
			Total -	44
				CG 99.50
				WC 2.50

[2]  
[10]  
[10 1/2]  
[10]  
[10]  
[10]

Thomas

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
7/4/05	8	8	CG	Lab Pipe McClure MEX
7/5/05	8	<del>7:30</del> 4	CG	Emis Line Service
	4	7:30	CG	McClure MEX
7/6/05	8	10	CG	Selamon Service 2
	10	11	CG	Emis Line Service 1
	+1 11	2	CG	Clear Warehouse 3
	2	4	CG	Dustex Service 2
	4	6	CG	Fix Trencher McClure MEX 2
7/7/05	5+ 8:00	9:00	CG	Cleanup McClure MEX 1
	9:00	12:00	CG	Thrasher MEX 3
	12:00	2:00	CG	Backhoe Prep Fix Trencher Parts 2
	2:00	2:00	CG	Job Ints Well #51
	3:00	4:00	CG	Hauling Service 1
	4:00	6:00	CG	Thrasher MEX 2
	6:00	6:30	CG	Fix Selamon Service 1/2
7/8/05	9:00	7:30	CG	Tie in Well #5 10
7/9/05	7:00	2:00	CG	Tie in Well #5 7
		CG -	58	

10

7/5

11

8 1/2

10

10

10

7

\$14 reim for parts.

Thomas

July 11 - July 17

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
7/11/05	8:30	9:30	CG	Service Duster Dr 1
	9:30	10:30	CG	Services Emies Line 1
	10:30	2:00	CG	Replace Valve Harbin Fire Valve Box 3 1/2
	2:00	5:30	CG	Thrasher MEX 3 1/2
	5:30	7:30	CG	Well #5 Train 2
7/12/05	8:00	10:00	CG	Harbin Regula Valve 2
	10:00	3:00	CG	Clear Rows Jamie MEX 5
	3:00	5:00	CG	Thrasher MEX 2
7/13/05	8:00	6:00 <del>6:00</del>	Retention / CG / RMI / SL / BR	No Samples, Learn Protocol <del>to take Samples</del> 5
7/14/05	8:00	1:00	CG	Thrasher MEX 5
	1:00	4:30	CG	Adams MEX 3 1/2
7/15/05	# 12:00	8:00	CG	Read H <sub>2</sub> O Meters 4
7/16/05	5:00	7:00	SL / BR / CG	Check Pumps
		Total -	<del>43</del> 42	
		CG -	41	
		SL -	1/2	
		BR -	1/2	

10 1/2

8 1/2

5

8

8

2

Thomas

July 18 - July 24

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
7/18/05	8:00	1:00 <del>5:00</del>	SL	Meters 5
	1:00	5:30	CG	Meters 4 1/2
	5:30	7:30	All CG 1 SL 1	Check Wells 2
7/19/05	7:00	10:00	All CG 1 SL 1	Check wells 3
	10:00	3:00	CG <del>Clean Truck</del>	Clean Truck 5
	3:00	6:00	All CG 1	Check Wells 2 Campbell Perc Other Perc 5
7/20/05	6:30	11:30	CG	Cleamp McClure 1 Collect Parts
	11:30	12:30	CG	CG 2 1/2
	12:30	3:00 <del>3:30</del>	CG	Turnoff 1/2
	3:00	3:30	SB	
	3:30	4:30 <del>7:30</del>	CG	Cleamp McClure 1
	4:30	5:30	CG	Cleamp Thrasher 1
	5:30	7:30	CG	Adams Clean Row 2
	7:30	8:00	SL	Turnoff/Check 1/2
7/21/05	11	11:30	PM	Chlorine 1/2
	11:30	12:30	CG	Check Pumps 1
	12:30	1:00	PM	Turn on 1/2
	1:00	6:00	CG	Adams Mex 5
	8:00	8:00	Taylor	Paint 1

10 1/2

8

12

8

Thomas

July 18 - July 24

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
7/22/05	10:00	4:00	CG	Adams 6
7/23/05	10:00	10:15	Pm	Check Chlorine 1/4
	10:30	11:00	CG	Check Tanks/Pumps 1/2
	4:00	4:15	SL	Check Tanks/Pumps 1/4
7/24/05	5:00	6:00	CG	Check System 1
		Total -	46 1/2	
		CG -	<del>34</del> 34	
		SL -	6 3/4	
		Pm -	2 1/4	
		SB -	1/2	
		Taylor -	1	
		House		

6

1

11



Thomas

July 25- July 29 2005

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
July 25, 2005	10:00	10:30	Office	Collect Papers 1/2
	10:30	11:00	Pm	Check Chlorine 1/4
	11:00	1:00	CG	Pressure in System 1 1/2 Check ER
	1:00	4:00	CG	Install Meters (ER) 3
	4:00	4:30	SL	Check System 1/4
July 26, 2005	9:00	10:00	Petersen	Read Meter / Blue Stake 1
	10:00	12:00	Taylor	Paint House 2
	5:30	7:30	Taylor	Paint House 2
	9:00	11:00	CG	Check Tanks 1 1/2
July 27, 2005	9:00	<del>11:00</del> 10:00	CG	Check Tanks 1
	10:00	10:30	SL	check Tank/Rmps 1/2
July 28, 2005	10:00	5:00	CG	Adams Mex (CROW) 7
July 29, 2005	1:00	5:00	Pet	Find lines 4
		Total -	24 1/2	
		CG -	14 1/2	
		Pm -	1/4	
		SL -	3/4	
		Pet -	5	
		Taylor -	4	

5 1/2

6 1/2

1 1/2

7

4



Thomas

Aug 8 - Aug 13

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
Aug 8	11	1	<del>Adm</del> CG	Adams Mex
Aug 9	1	3	CG	Adams Mex 2
	4	5	Taylor	Paint 1
Aug 10	8:30	5:30	CG	Bugs Bee Mex 9
	5:30	7:30	CG	Adams Mex 2
Aug 11	5:00	4:30	CG	Adams Mex 8
Aug 12	7:00	2:00	CG	Adams Mex 7
	2	3:30	CG	Bugs Bee Mex 1 1/2
	3:30	8:00	CG	Adams 4 1/2
Aug 13	8:00	2:00	SL	Service 1
		Total	41 1/2	
		SL	5	
		CG	35 1/2	
		Taylor	1	

27  
3  
11  
5  
16 1/2  
5



Thomas Timesheet Dec 19 - Dec 25

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
Dec 19, '05	8	12	Lakeside <sup>LAND</sup>	Remove Trailer from
9 hrs	12	5	CG	Meters
	5	6	CG	Gintant Med
Dec 20, '05	8	1	CG	Examine Jobs
8 hrs	1	6	CG	Mapes Service
Dec 21, '05	8	1	CG	Backhoe Maint
9 hrs	1	6	CG	Gintant Med
Dec 22, '05	7	12	CG	Gintant Med
11 hrs	12	1	CG	McClure Med
	1	3	CG	Examine Well / Subdiv
	3	6:30	CG	Fire Station Drain
	6:30	7:00	CG	Hang Plastic in Warehouse
Dec 23, '05	10:00	6:00	CG	Gintant Med (West of Leo)
10 hrs	7:00	10:00	CG	Service out of med
Dec 24, '05	7:30	11	CG	Empty Trash Trailer
8 hrs	11	2:30	CG	Gintant Med
	2:30	4:30	CG	Storage Shed Pad
Total - 55			Lakeside House - 3	CG - 52

3  
 5  
 1  
 3  
 5  
 4  
 5  
 5  
 1  
 1  
 3 1/2  
 1 1/2  
 7  
 3  
 3 1/2  
 4 1/2  
 1 1/2

REG. 40  
 OT. 15  


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 55

LAND 3  
 CG 52  


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 55

55

Thomas

Dec 26 - Jan 1

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED	
# Dec 26, '05	6:30	7:30	CG	Clean Warehouse	11
7 hrs	9:00	5:00	1 <sup>1</sup> / <sub>2</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>1</sup> / <sub>2</sub> , 1 <sup>3</sup> / <sub>2</sub> Fet, CG, PM, SL, BR, WMY	Water Samples	6
Dec 27, '05	6:30	7:30	CG	Clean Warehouse	11
11 hrs	8:00	3:00	CG	McClure MEXA	6
	3:00	4:30	CG	Gintout MEXA	1 1/2
	4:30	6:00	CG	Johnston MEXA	1 1/2
	6:30	7:30	CG	Prep For Gintout	1
Dec 28, '05	6:30	7:30	CG	Gintout MEXA	11
12 hrs	7:30	8:30	SL	Travel w/ Backhoe	11
	8:30	12:00	SL	Leak on Main Rd	3 1/2
	12:00	3:00	SL	Leaky Valve by Antelope	3
	3:30	4:00	SL	Ramirez Angle Stop	1/2
	4:00	4:30	SL	Travel w/ Backhoe	1/2
	4:30	5:30	CG	Fire Station Drainage	11
	5:30	5:45 <del>6:00</del>	CG	Gintout	1/4
	5:45	6:00	CG	ER Lot 19 TO	1/4
	6:30	7:30	CG	Clean Warehouse	11

Thomas

Dec 26 - Jan 1

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
Dec 29, '05	8:00	3:00	CG	Gintout Mx (Flush)
10 hrs	3:00	4:00	CG	Fire Station Drain (Tree)
	4:00	5:30	CG	Gintout Mx (Clean)
	5:30	6:00	CG	Storage Shed Pad
	6:00	6:30	CG	Backhoe Maint
	6:30	7:00	CG	Dump 1 Ton (Fire Drain Job)
Dec 30, '05	7:30	8:30	CG	McClure MxA
4 hrs	8:30	9:30	CG	Gintout MxA
	9:30	10:30	CG	Bishop MxA
	10:30	11:00	CG	Moore MxA
	11:00	11:30	CG	Dock Area
Total ~	44		WARCO 10 SL ~ PM ~ 1.5	A Pederson Pet ~ 1.5 CG ~ 31

6  
11  
1 1/2  
1 1/2  
1 1/2  
1 1/2  
11  
11  
11  
1 1/2  
1 1/2

**Current Employee:**

**Lori Baker**



**Current Employee:**

**Ty Harmon**

Ty Harmon

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
08/30/05	8:00	11:00 (3hr)	Hawk SLE	Service (3)
08/30/05	2:30	5:00 (2 1/2)	Clark SLE	Service (2 1/2)
08/31/05	7:30	9:30 (2hr)	Hawk SLE	Service (2)
08/31/05	9:30	11:00	Clark SLE	Service (1 1/2)
08/31/05	11:00	11:30	Lunch	
08/31/05	11:30	2:00	Clark/SLE Cormich	Service (2 1/2)
08/31/05	2:00	3:30	Porter Mtn. CG + SB	Read meters (1 1/2) 13
9/1	7:30			Turn on's + off's
9/1			CG SRV Pooter Pumps	(3) 13
9/1			CG Services Vance, & others	Prep (3)
9/2	7:30	10:30	Peterson water	Read meters (3)
9/2	10:30	11:30	ACE HARDWARE OFFICE	6" 8" NIPPLE (1) CHECK ON Meter
9/2	11:30	12:30	HAWK SLE	Service (1)
9/6	7:30	8:30	Hawk SLE	Service (1)
9/6	8:30	10:00	TURKEY SLE	Service (1 1/2)
9/6	10:00	1:30	AnaLope	Service (3 1/2)
9/6	2:00	5:00	Halled water services 3312	(3)

WC 19.5  
PM 1.5  
Pet 3  
CG 11

35  
total

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
9/7	8:00	1:00 SB	3315	Dig for phone line (5) ✓
9/7	1:00	4:00 L2U	Clean property cut grass	(3) ✓
9/8	7:30	1:30 SB	vernun	Services (6) ✓
9/8	1:30	2:00	LUNCH	
9/8	2:00	5:30 CG	2333 3309	Dig trench with back hole (3 1/2) ✓
9/9	8:00	12:30 CG	3309	Dig trench back hole (4 1/2) ✓
9/9	12:30	5:00 CG	3309	↓ (4 1/2) ✓
9/12	7:30	9:00 CG	wear house	Put flush out together for 3309 (1 1/2) ✓
9/12	9:00	3:00 CG	Back feel 3309	Back feel (6) ✓
9/12	3:00	5:00 WC	wear house at SLE	Clean property (2) ✓
9/13	7:30	9:00 CG	3309	flushout (1 1/2) ✓
9/13	9:00	11:00 CG	David's	back hole time (2) ✓
9/13	11:00	1:00 CG	3312	Service (2) ✓
9/13	1:00	4:00 CG	water pick up	Back hole time (3) ✓
9/13	4:00	5:30 CG	main line 3312	Back hole time (1 1/2) ✓
9/14	7:30	3:30 CG	main line 3312	Lay pipe Back hole time (8) ✓
9/15	7:30	4:30 CG	332 MAINLINE	Back hole time BACK fill level (9) ✓
9/16	8:30	9:30 WC	Boarden Ranch	Read meters Relay Locks (1 1/2) ✓

2005 Ty

Page 2

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED	
9/27	8:00	9:30	CG #5 PumpHouse	Stuckie PumpHouse take care of Bees	1 1/2
9/27	9:30	1:00	CG 3148	fix Leak	3 1/2
9/27	1:00	2:00	CG PumpHouse #5	Spray Bees	1
9/27	2:00	3:00	CG 3031	Service	1
9/27	3:00	4:30	WATCO SLE	Read meters	1 1/2
9/28	8:00	3:00	CG PumpHouse #5	Stucco	7
9/28	3:00	4:00	CG ACE	Pickup parts	1
9/28	4:00	6:30	WATCO 8540 Red Fox	Service	2 1/2
9/29	8:00	3:00	CG PumpHouse #5	Stucco	7
9/29	3:00	4:30	WATCO Ace for parts 8540 Red Fox	Got Cement Replace Meter	1 1/2
9/30	7:30	1:00	CG PumpHouse #5	Stucco and dry	5 1/2
					33
					+ 50
					83
			CG 59.50		
			SB 8.50		
			Per. 1.00		
			Porter 1.00		
			Watco 12.00		

weeks 9-19-22-05  
 9-24-30-05  
 2005 14

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED	
9/19	8:00	6:00 CG	Reed Meters Cedar Grove	Reed Meters	9.5
9/20	7:30	1:00 SB	Vernon	Fix Leak Rekey - Replace meter	5.5
9/21	8:00	11:00 WAKO	8508 Qual Run SLE	Service	3
9/21	11:00	12:30 CG	Pumphouse EAGLE Ridge	Rekey Lock Back hole Drain	1.5
9/21	12:30	1:00 CG	Grover	New meter	0.5
9/21	1:00	1:30 CG	Pumphouse 45	Rekey	.5
9/21	1:30	2:30 CG	Wearhouse Box Check water Tank 3012 Trencher	Run around	1
9/21	2:30	3:00 CG	3095 Pumphouse	check Pump Meter Box	.5
9/21	3:00	4:30 CG	SLE Qual Warehouse	cut grass water samples	1.5
9/22	8:00	1:00	PM SB CG person 1 WAKO		5
9/22	1:00	5:00 CG	3323	Penk Test	4
9/23	8:00	7:00 CG	3113	BACK hole TIME PULL TREE	5
9/23	1:00	1:30 CG	3113	LUNCH	
9/23	1:30	5:00 CG	3113	BACK hole TIME	3.5
9/26	7:30	8:30 WAKO	SLE WATER LEAK	Check for WATER leak	1
9/26	8:30	10:00 WAKO	wearhouse SLE 8157	Chop weeds Check Meter Size	1.5
9/26	10:00	1:00 SB	Vernon Pumphouse	CUT Grass	3
9/26	1:00	2:00 CG	EAGLE Ridge Pump house	Fill hole under TANK put Lids Back on	1
9/26	2:00	4:30 CG	3323 ON UP the ROAD	STAKE ROAD	2.5

2005

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED	
10-3	8:30	3:00	Porter Mt. pm	Read meters	(6.5)
10-3	3:00	4:30	Ace office SLE	Get supplies check service	(1.5)
10-4	8:30	10:00	3113	Push trees BACK Idle time	(1.5)
10-4	10:00	11:00	Pump House #5	Cook Pump House	(1)
10-4	11:00	2:00	SLE	Disconnects	(3)
10-5	8:00	9:30	3314	Back fill Perik test	(1.5)
10-5	9:30	11:30	3312	Look for phone line	(2)
10-5	11:30	4:00	Pump House #5	Paint & Trim	(4.5)
10-6	8:00	10:00	office Ace	Parts	(2)
10-6	10:00	3:30	Pump House	Trim	(5.5)
10-7	8:00	5:00	Pump House B.R.	Trim 38.0	(9)
10-10	8:30	12:00	3315	Service	(3.5)
10-10	12:00	12:30	LUNCH		
10-10	12:30	5:30	3315	Service other side	(5)
10-11	8:00	12:00	3315	Service	(4)
10-11	12:00	3:00	3309	Service	(3)
10-11	3:00	5:00	3314	Perik test	(2)
10-12	7:30	8:00	Pump House EAGLE Ridge	water test	(.5)
10-12	8:00	5:30	3314 3313	Perik test take down trees phone line	(9.5)

Back fill ALL BACK Idle time





Ty Harmon

DATE 2005	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
10-17	8:00	11:00	SLE <sup>WARCO</sup>	Read Meters (3)
10-18	8:00	5:00		(9)
10-19	7:30	3:30	SLE <sup>WARCO</sup>	Read Meters (8)
10-20	8:00	12:00	B.R. <sup>CG</sup>	Paint Pump House (4)
10-20	12:00	12:30		LUNCH
10-20	12:30	5:00	BR <sup>CG</sup>	Paint (4.5)
10-21	8:00	12:00	Reader Grove <sup>CG</sup>	Read Meters (4)
10-21	12:00	12:30		LUNCH
10-21	12:30	5:30	Eagle Ridge <sup>CG</sup> Wagon	Read Meters (5) <sup>37.50</sup>
10-25	8:00	10:00	Office <u>SLE</u> <sup>WARCO</sup> Acc	Read Meters Supplies (2)
10-25	10:00	1:00	Pump House <sup>CG</sup> Eagle Ridge	Concrete & Pipes (3)
10-25	1:00	3:00	3308 <sup>CG</sup> Radfigar	move Meter Box (2)
10-25	3:00	4:30	#5 Pump House <sup>CG</sup> SRU well	fix Leak put trim on (1.5)
10-26	8:00	8:30	Eagle Ridge <sup>CG</sup>	Heat Tape (.5)
10-26	8:30	11:00	well #5 <sup>CG</sup>	Paint (2.5)
10-26	11:00	11:30	SRU well <sup>CG</sup>	TRIM (.5)
10-26	11:30	12:00		LUNCH
10-26	12:00	3:30	B.R. <sup>CG</sup>	Paint (3.5)

49.5 hr





2005

Ty Harmon

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED	
10-31	8:00	10:00	office ACE Timber blgd	Supplies	(2)
10-31	10:00	12:00	B.R. EAGLE Ridge	on Load Paneling Tape Pipes	(2)
10-31	12:00	2:00	wear house well # 5	Put Brackets on Backhole make Box for E.L.T.	(2)
10-31	2:00	4:00	B.R. well	Install paneling	(2)
11-1	8:30	10:00	3312	Back fill Pork	(1.5)
11-1	10:00	2:30	3312 Daves	Dig Pork Time BACKHOLE	(4.5)
11-2	8:00	12:00	wear house	Air Leak at well	(4)
11-2	12:00	12:30		LUNCH	
11-2	12:30	3:00	well # 3	Rebuild Pump	(2.5)
11-2	3:00	5:30	wear house	Rebuild meter Weld BACKHOLES	(2.5)
11-3	8:30	1:30	3113	Dig Pork BACKHOLE	(5)
11-4	8:00	1:00	B.R. well (39)	install paneling & Paint - - Tap	(5)
11-7	8:00	10:00	office Ace	Supplies	(2)
11-7	10:00	5:30	wearhouse	TRIM	(7.5)
11-8	7:30	5:00	wearhouse	Paint	(9.5)
11-9	8:00	2:00	wearhouse	Paint	(6)
11-10	<del>8:00</del>	<del>1:00</del>	wearhouse	Rebuild <sup>NO</sup> TIME	X
11-10	1:00	3:30	3312 3314	Back fill Pork	(2.5)
11-10	3:30	4:30	by wearhouse	Backfill hole Take out meter	(1)

68.5 hr

6 1/2

350  
meter

2005

Ty Harmon

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED	
11-14	8:00	9:30	WARCO Office Build Supplies	Pick up Supplies	1.5
11-14	9:30	11:30	WARCO SLE	Replace Valve change meter	2
11-14	11:30	4:00	CG warehouse	Paneling well #1	4.5
11-15	8:00	5:00	WARCO SLE	Read meters	9
11-16	8:00	10:00	WARCO SLE	Read Meters	2
11-16	10:00	5:00	CG Reader Grove	Read Meters	7
11-17	8:00	5:00	CG CG	Read Meters	9
11-18	8:00	2:00	CG CG	Read Meters	6
11-18	2:00	5:30	CG 3348	Dig PERK	3.5
11-21	8:00	3:30	WARCO SLE	Dig main line	7.5
11-22	8:00	9:00	CG 3314	by leas Dig & find Tee	1
11-22	9:00	12:00	CG Dave's	Dig water line	3
11-22	12:00	12:30		LUNCH	
11-22	12:30	5:00	CG DAVE'S	WATER & ELECTRIC	4.5
11-23	8:00	12:00	CG 3314	Dig main JACK HOLE	4
11-23	12:00	12:30		LUNCH	
11-23	12:30	6:00	CG 3314	LAY PIPE	5.5
					4.8
			WARCO 22.0	19.75	
			CG 48.0	45.75	

WARCO 2.25  
CG 2.25

70 x 6.90 = 483.00

CG 241.50  
Water 241.50

70.00

2005

Ty Harmon

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED	
11-28	8:30	1:00	Porter Mt. PM	Read Meters	(4.5)
11-28	12:00	6:00	Office Timber Well #1	Install paneling fix door	(6)
11-29	8:00	11:00	Peterson meter read	Meter read	(3)
11-29	11:00	11:30		LUNCH	
11-29	11:30	3:30	TAYLOR TAYLOR COMM.	Burn weeds	(4)
11-30	10:00	11:30	40Kkey Service Berry	Meter Read	(1.5)
11-30	11:30	2:30	DAVES Shut Meter Read	Service	(3)
12-1	8:30	2:30	TAYLOR TAYLOR COMM.	Burn meter read	(6)
12-2	8:00	3:30	Meter Read C.G. + DAVES	dig trench	(7.5)
12-5	9:30	3:30	Office Prepain TAYLOR COMM.	Burn	(6)
12-6	8:30	2:30	Lumber men Office TAYLOR	Drop off paneling Meter Reads	(6)
12-7	9:00	11:00	DAVES C.G.	Install ELEC. move Box	(2)
12-7	11:00	1:00	Meter Read 3348 C.G.	Meter Read	(2)
8					
12-9	3:00	4:00	3348 C.G.	TURN ON #24	(1)
12-10	9:30	2:30	SLE WATCO	Service	(5)
					22.00
					57.50
	P.M. 4.5				
	C.G. 21.50				
	WATCO 5.0				
	SERVICE BERRY 1.5				
	TAYLOR 22.0				
	A. PET. 3.0				

**Temporary Employee:**

**Barbie Grapp**

Barbie

	DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
7.5 T	31 May 05	7:30	5:30 - 1/2 hr lunch	office	Excel spreadsheet for MX
9.5 W.	1 Jun 05	7:30	5:30 - 1/2 hr lunch	"	Change acct # in Excel for CG + Watco / started deletions
9.0 Th.	2 Jun 05	7:30	5:15 = 1 hr lunch + break	"	finished acct #'s + exported started filing / misc catchup
6.5 Fr.	3 Jun 05	7:55	3:15 - 1/2 hr lunch		filing deletion /
8.0 M.	6 Jun 05	7:30	4:30 - 1 hr lunch		filing / deletion / MX spreadsheet /
8.45 W	8 Jun 05	8:00	5:15 - 1/2 hr		filing helped Lyndee w/ ap
6.5 Th	9 Jun 05	9:00	4:00 - 1/2 hr		filing
			57.75	28.88 CG 28.87 WC	
				X \$19.0 NR	
7.5 Tues	28 Jun 05	9:00	5:00 - 1/2		
Fr	1 Jul 05	8:00 AM	- lunch 45 min	3:00 <sup>off</sup>	
4 1/2	12 Jul 05	1 PM	5:30		
			9.50 WC		
			9.50 CG		
2.5	8-23	3:30	6:00		
2.5	8-25	3:30	6 —		
2	9-1	4	4 —		



**Temporary Employee:**

**Mark Grapp II**











**Temporary Employee:**

**Richard Grapp**







**Former Employee:**

**Jeffrey Felsted**

Jeffrey

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
7/4/05	8	8	CG	Lay Pipe McClure Mex
7/5/05	8	4	CG	Enrie Line Service 7 1/2
"	4	7:30	CG	McClure Mex 3 1/2
7/6/05	8	10	CG	Solomon Service 2
	10	11	CG	Enrie Line Service 1
	-1 11	2 1	CG	Clean Warehouse 3
	+1 1	2	CG	Well #3 Rent Text Backfill 1
	2	4	CG	Disolve Dr Service 2 Backfill & Fix Trencher
	4	6	CG	McClure Mex 2
7/7/05	- 5 8:00	8:30	CG	3312 Hedging Service 6
	+ 5 8:30	9:00	CG	Cleanup McClure Mex 6
	9:00	12:00	CG	Thrasher Mex 3
	12:00	3:00	CG	Fix Trencher Parts Job Info #5 well
	3 3:00	6:00	CG	McClure Mex 3
	6:00	6:30	CG	Back Solomon Service 4
7/8/05	9:00	7:30	CG	Tie in Well #5 12
7/9/05	7:00	2:00	CG	Tie in Well #5 7
		CG -	59 1/2	

11

11

10

10

10

7 1/2











Jeffrey

Aug 8 - Aug 13

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
Aug 8	9:30	4:15	Taylor	Paint
Aug 9	5:30	5:30	Taylor	Paint
Aug 10	5:30	5:30	Taylor	Paint
Aug 11	11:15	1:15	Taylor	Cleanup
Aug 12	9:30	1	Taylor	Cleanup
	2	7	CS	Log Dipr <sup>Adams #3</sup> Bay Box
Aug 13	10	4	Taylor	Cleanup
		Total	41 1/4	
		Taylor	36 1/4	
		CS	5	

6 3/4  
9  
9  
2  
3 1/2  
5  
6

**Former Employee:**

**Lyndee Grapp**











DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
B/7/05	3:30	5:00.	-1.5	
B/8/05	11:30	5:30	-6	
B/9/05	3:30	5:00	-1.5	
B/10/05	12:00	5:00	-5	
B/11/05	2:30	5:00	-2.5	
	Total		16.5	
B/14/05	OFF	OFF		
3/15/05	11:30	5:00	-5.5	
3/16/05	3:30	5:00	-1.5	
3/17/05	OFF	OFF	OFF	
3/18/05	OFF	OFF	OFF	
	Total		7	

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
3/21/05	10:30	5:00	- 6.5	
3/22/05	10:00	5:00	- 7	
3/23/05	7:45	5:00	- 9.25	
3/24/05	12:30	5:00	- 4.5	
3/25/05	9:45	5:00	- 7.25	
3/26/05	1:45	11:30 pm	- 9.75	
3/27/05	8:45 am	5:00 pm	8.25	
	7:30 pm	2:00 am	6.5	
	TOTAL		- 59.00	
3/28/05	3:30	5:00	- 1.5	
3/29/05	11:30	5:00	- 5.5	
3/30/05	3:30	5:00	- 1.5	
3/31/05	11:30	5:00	- 5.5	
4/01/05	OFF	OFF		
	Total		14 Hrs	
	2wk 73 HRS Total			36.5 w.c. 36.5 c.g.

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
4/4/05	11:30	5:00	-5.5	
4/5/05	2:00	5:00	-3.0	
4/6/05	3:30	5:00	-1.5	
4/7/05	12:00	5:00	-5	
4/8/05	3:30	5:00	-1.5	
			16.5	CG 8.25 WC 8.25
4/11/05	3:30	5:00	-1.5	
4/12/05	9:00	5:00	-8	
4/13/05	11:30	5:00	-5.5	
4/14/05	OFF	OFF	OFF	
4/15/05	7:30	5:00	-9.5	
		Total	24.5	CG 12.25 WC 12.25
4/18/05	4:00	5:00	-1	
4/19/05	11:30	5:00	-5.5	
4/20/05	3:30	5:00	-1.5	
4/21/05	11:30 4:00	3:00 5:00	-4.5	
4/22/05	7:00 11:30 4:00	10:00 3:00 5:00	-7.5	
4/23/05	2:00	4:30	-2.5	

41.00  
Total  
20.5  
20.5

total 22.5



DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
4-25-05	4:00	5:00	1.0	
4-26	11:30	5:00	5.5	
4-27	OFF			
4-28	OFF			
4-29	OFF			
			6.5 + 22.5	14.5 CG 14.5 WC.
5/2/05	3:30	5:00	-1.5	
5/3/05	11:30	5:00	-5.5	
5/4/05	2:30	5:30	-3	
5/5/05	11:30	5:00	-5.5	
5/6/05	<del>2:30</del> 2:30	5:00	-2.5	
			18 hrs	

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
5/9	3:30	5:00	-1.5	
5/10	11:30	5:00	-5.5	
5/11	OFF			
5/12	SICK			
5/13	3:00	5:15	-2.25	
			9.25 27.25	13.50 CG
			18.00	13.75 WC
5/16/05	OFF			
5/17	11:30	5:00	-5.5	
5/18	3:30	5:00	-1.5	
5/19	11:30	5:00	-5.5	
5/20	8:30	12:30	-4	
5/21	9:00	12:30	-3.5	
			20 HRS	
<del>5/23</del>	<del>5/23</del>	<del>OFF</del>	<del></del>	<del></del>

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
5/23	OFF	OFF		
5/24	OFF	OFF		
5/26	12:00	5:00	-5	
5/27	12:00	5:00	-5	
<del>5/28</del>			10HRS 20HRS	30HRS 15 we 15 CG
<del>5/28</del>				
5/31/05	6:2/05			
6/3/05	2:30	5:00	-2.5	
6/6/05	7:00	4:30	-9.5	
6/7/05	7:00	4:00	-9.0	
6/8/05	7:00	4:00	-9.0	
6/9/05	7:00	4:00	-9.0	
6/10/05	7:00	4:00	-9.0	
			48.0	24 we 24 CG











DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
8/22/05	7:00	4:00	-9 hrs	
8/24/05	7:00	4:00	-9 hrs	
8/26/05	6:45	4:30	-9 hrs. 45 min lunch	
8/29/05	6:30	3:30	-9 hrs	
8/31/05	7:00	4:00	-9 hrs	
9/2/05	7:00	4:00	9 hrs	
9/05/05	12:00	5:00	5 hrs	
9/07/05	7:00	5:00	10 hrs	
9/08/05	12:00	1:00	-1 hr.	
9/09/05	7:00 10:30	9:30 5:00	-9 hrs	
			25 hrs	

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
9/12/05	7:00	<del>5:00</del> - 9:00		
9/14/05	7:00	4:00	- 9 hrs.	
9/14 - 9/15	9:00 pm	1:00 am	- 4 hrs	
9/15/05	<del>7:30 am</del> 3:00 pm	9:30 am 4:30 pm	- 3 1/2 hrs	
9/15/05	9:00 pm	10:00 pm	1. hr	
			26 1/2	
<hr/>				
9/22/05	8:00	5:00	9 hrs	
9/23/05	7:00	5:00	10 hrs	
9/29/05	7:30	9:00	- 1.5	
	10:30	4:30	<del>- 5.5</del> 6.	
9/30/05	7:00	4:00	<del>9</del>	
				35.50
				+ 12.5 (48.0)

1:00-2:00 off

6:30

4:30

-9 hrs.

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
10/6/05				
10/11/05	11:00	12:00	-1 hr	
10/13/05	7:00	5:00	-10 hrs	
<del>10/14/05</del>	<del>7:00</del>	<del>2:00</del>	<del>-7</del>	<del>11</del>
			+16 hrs not on last p. ch.	
10/20/05	7:00	4:00	-9	9.0
10/27/05	7:00	4:00	-9	
10/28/05	7:00	4:00	-9	43.0 18 29
11/03/05	7:00	4:00	-9	
11/04/05	7:00	4:00	-9	
			11	
11/10/05	7:00	10:00	-3	Reg. 30
11/11/05	7:30	4:30	9:	
			12	

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
<del>11/16/05</del>	<del>7:00</del>	<del>8:00</del>	<del>3 hrs</del>	
11/21/05	7:00	10:00	3 hrs	
11/17/05	7:00	10:30	-3.5	
11/18/05	7:00	4:00	-9 hrs	
			15.5	15.50
11/29/05	8:30 pm	9:30 pm	-1	
	10:30 pm	1:00 am	-2.5	
12/01/05	7:50	8:15	-25 min	} 1 hr
	9:20	9:45	-35 min	
		Total	4.5	4.5

**Former Employee:**

**David Thrasher**

David Thrasher

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
12/28/04	8:00 <sup>AM</sup>	4:15 <sup>PM</sup>	office 8.25	office
12/29/04	8:00	4:30	8.50	office
12/30/04	8:00	4:00	8.0	office
12/31/04	8:00	4:00	8.0	office
			32.75	we CG 16.25 16.5
1/03/05	8:00 <sup>AM</sup>	4:00 <sup>PM</sup>	8.0	office
1/4/05	8:00	4:30	8.5	office
1/5/05	8:30	4:30	8.5	office
1/6/05	8:00	4:30?	8.5	office
1/7/05	8:00	4:30	8.5	office
			42.00	we 20 20 <sup>05</sup>
1/10/05	8:00	4:30	8.5	office
1/11/05	8:00	4:00	8.0	office
1/12/05	8:00	4:00	8.0	office
1/13/05	8:00	4:30	8.5	office
1/14/05	8:00	4:00	8.0	office
			41.00	we CG 20 20
			1HR of Carry over From 1-03 - 1-07	

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
1/17/05	8:00 AM	5:00 PM	8-12:30 office 9.0 12:30-5:00 WC water leak	office
1/18/05	8:00	4:00	8.0	office
1/19/05	8:00	5:00	2.25 CG 6.75 WC 9.0	8-12:30 office 12:30-5:00 WC water leak
1/20/05	8:00	4:00	8.0	office
1/21/05	8:00	4:30	8.5	office
			42.5 20HR waterco 20HR Cedar Grove	
1/24/05	8:00	4:00	8.0	office
1/25/05	8:00	4:00	8.0	office
1/26/05			2.5 OT 1/21 3.0 OT 1.0 OT 1/27 2.14 6.5	
1/27/05	8:00	5:00	9.0	office
1/27/05	8:00	4:00	8.0	office
			38.5 19.25 WC 19.25 CG	
1/31/05	8:00	4:00	8	office
2/1/05	8:00	4:30	8.5	office
2/2/05	8:00	5:00	9.0	office
2/3/05	8:00	4:30	8.5	office
2/4/05	8:00	5:00	9.0	office
			43 3HRS to 1/26 20 WC 20 CG	

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
2/7/05	8:00	4:00	8.0	office
2/8/05	8:00	4:00	8.0	office
2/9/05	8:00	4:00	8.0	office
2/10/05	8:00	4:00	8.0	office
2/11/05	8:00	5:00	9.0	office
			41.0 1st 20-wc 20-CG	
2/14/05	8:00	4:00	8.0	office
2/15/05	8:00	4:00	8.0	office
2/16/05	8:00	4:00	8.0	office
2/17/05	8:00	4:00	8.0	office
2/18/05	8:00	4:00	8.0	office
			40.0 20-wc 20-CG	
2/21/05	8:00	<del>4:00</del> 1:00	5 + 1st 2nd 6.0	
2/22/05	<del>8:00</del> 10:00	5:00	7	
2/23/05	8:00	4:15	<del>8.25</del> 8.5 transfer From 3-8 .25	
2/24/05	8:00	4:00	8.0	
2/25/05	8:00	4:00	8.0	
			37.50 18.75 WC 18.75 CG	
			37.50 18.75 WC 18.75 CG	

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
2-28-05	8:30	4:00	7.5	office
<del>3-1-05</del>	8:00	4:00	8.0	office
3-2-05	8:00	4:00	8.0	office
3-3-05	8:00	2:30	6.5	office
3-4-05	8:00	4:00	8.0	office
			38.0	19.0 WC 2WK 37.75 WC 19.0 CG. 75.50 37.75 CG
3-7-05	8:00	4:00	8.0	
3-8-05	8:00	4:15	8.25	transfer to 2-23
3-9-05	8:00	4:00	8.0	
3-10-05	8:00	3:45	7.75	
3-11-05	8:00	4:00	8.0	
		Total	39.75	
3-14-05	8:00	5:00	<del>8.0</del> 9.0	
3-15-05	8:00	3:30	7.5	
3-16-05	8:00	4:00	8.0	
3-17-05	8:00	5:00	9.0	
3-18-05	8:00	5:00	9.0	
		Total -	42.5	80 hrs Total
				2.25 extra not on paychk.

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
3-21-05	8:00	4:00	8.0	
3-22-05	8:00	4:00	8.0	
3-23-05	off	off	2.25 <sup>3-17-318</sup> From prev.	off
3-24-05	8:00	4:15	8.25	
3-25-05	8:00	4:00	8.0	
			34.5	
3-28-05	8:00	4:00	8.0	
3-29-05	8:00	3:45	7.75	
3-30-05	8:00	4:00	8.0	
3-31-05	8:00	2:45	6.75	
4-1-05	8:00	5:00	9.0	
			<del>38.5</del> + 34.5 = 73	<del>37</del> WC <del>37</del> CG.
4-4-05	8:00	4:00	8.0	
4-5-05	8:00	4:00	8.0	
4-6-05	8:00	4:00	8.0	
4-7-05	8:00	4:00	8.0	
4-8-05	8:00	4:00	8.0	
			40 HRS	WC - 20 CG - 20

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
4-11-05	8:00	4:00	8.0	
4-12-05	8:00	4:00 - <del>7:15</del>	<del>8.0</del>	
4-13-05	8:00	4:00 - $\frac{1}{2}$ HR	7.5	
4-14-05	8:00	5:00	9	
4-15-05	8:00	off		
			32.5 + 40 72.5 36.25 x 2	WC 16.25 CG 16.25
4-18	8:00	4:30	8.5	
4-19	8:00	4:00	8.0	
4-20	8:00	4:00	8.0	
4-21	8:00	4:00	8.0	
<del>4-22</del>	8:15	4:30	8.25	
			40.75 <del>72.5</del>	
4-25-05	8:00	4:00	8.0	
4-26	8:00	4:00	8.0	
4-27	8:00	5:00	9.0	
4-28	8:00	5:00	9.0	
4-29	8:00	5:00	9.0	
			43.00	CG 40 WC 40
			83.00	CG 2.0 WC 1.75

2005

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
5-2	8:00	4:00	8.0	
5-3	8:00	4:00	8.0	
5-4	8:00	3:00	7.0	
5-5	8:00	4:00	8.0	
5-6	8:00	6:00	<del>8.0</del> 10.0	
			<del>41</del> HRS 41	1 HR OT WC 20 CG 20
5-9	8:00	4:00	8.0	
5-10	8:00	5:00	9.0	
5-11	8:00	5:00	9.0	
5-12	8:00	5:00	9.0	
5-13	8:00	4:30	8.5	
			43.50	WC 20 CG 20 3.50 OT
			CG 40 + 0.25 OT	
			WC 40 + 2.25 OT	
5-16	8:00	5:00	9.0	
5-17	8:00	1:00	5.0	
5-18	8:00	4:15	8.25	
5-19	8:00	4:00	8.0	
5-20	8:00	5:00	9.0	
			39.25	

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
5-23	8:00	5:00	9.0	
5-24	8:00	5:15	9.25	
5-25	8:00	<del>4:45</del> 1:00	5.0	
5-26	8:00	4:15	8.25	
5-27	8:00	4:15	8.25	
			79 total	wc 39.50 cg 39.50
5-30	OFF	mem.	DAY	
5-31	8:00	5:00	9.0	
6-1	11: <del>45</del> <sup>30</sup>	5:00	5.50	
6-2	8:00	5:00	9.0	
6-3	8:00	5:15	9.25	
			32.75	
6-6	8:00	5:00	9.0	
6-7	8:00	5:00	9.0	
6-8	8:00	5:00	9.0	
6-9	8:00	5:00	9.0	
6-10	8:00	5:00	9.0	
			45 + 32.75 77.75	38.88 38.87

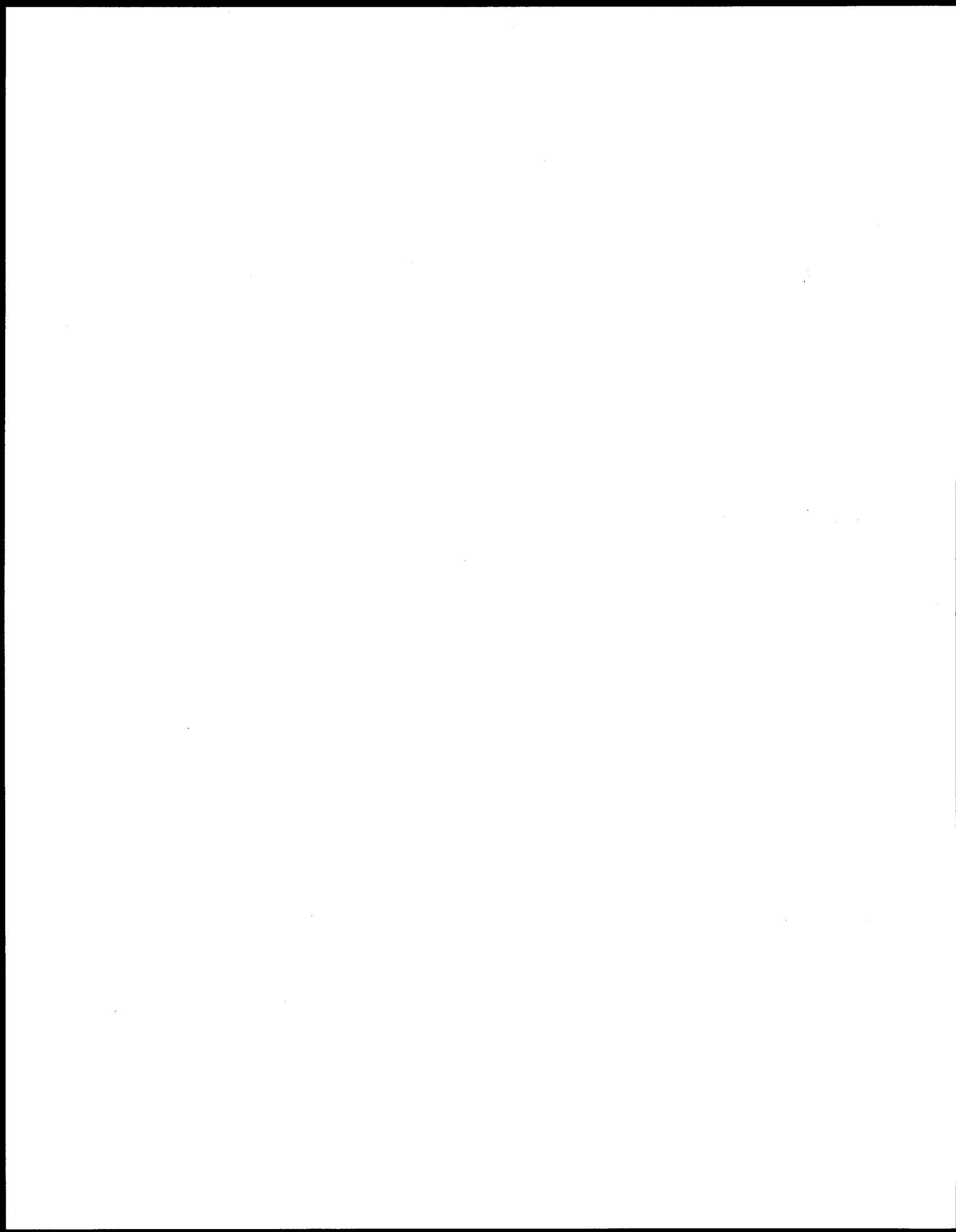
DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
6-13-05	8:00	5:00	9.0	
6-14	8:00	5:00	9.0	
6-15	8:00	5:00	9.0	
6-16	8:00	5:00	9.0	
6-17	OFF			
			36 HRS	
6-20	8:00	5:00	9.0	
6-21	8:00	5:00	9.0	
6-22	8:00	5:00	9.0	
6-23	8:00	5:00	9.0	
6-24	8:00	5:00	9.0	
6-27	8:00	5:00	9.0	
6-28	8:00	5:00	9.0	
6-29	8:00	5:00	9.0	
6-30	8:00	5:00	9.0	
7-1	8:00	5:00	9.0	
			45.00	
			40 reg 5 over	

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
7-4	OFF	OFF	Serby 4th	
7-5	8:00	5:00	9.0	
7-6	<del>8:15</del>	5:00	8.75	
7-7	<del>8:00</del>	<del>1:00</del> - 5:00	3 + 4 = 7.0	
7-8	8:00	5:00	9.0	
		Transfer 15min	45 + 34 = 79	WC 39.5 CG 39.5
7-11	8:15	<del>5:15</del>	9.0	
7-12	8:00	5:00	9.0	
7-13	7:00	4:00	9.0	
7-14	8:00	5:00	9.0	
7-15	8:00	<del>5:00</del> 5:30 TRacking letter	9.5	
			45.5	
7-18	8:15	5:00	8.75	
7-19	8:00	5:00	9.0	
7-20	8:00	5:00	9.0	
7-21	8:00	5:00	9.0	
7-22	8:00	5:00	9.0	
			44.75	90.25
				45. WC 10 HRS 45. CG 0 H
			15 min Bank	Pranked <del>15 min</del> 15 min

2005

David Thrasher

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
7-25	8:00	5:00	9.0	
7-26	8:00	5:00	9.0	
7-27	8:00	5:00	9.0	
7-28	8:00	5:00	9.0	
7-29	8:00	5:00	9.0	
			45 HRS	
8-1	8:00	5:00	9.0	
8-2	8:00	5:00	9.0	
8-3	8:00	5:00	9.0	
8-4	8:00	5:00	9.0	
8-5	11:15	5:15	6.0	
...			42 HRS	7 HRS of Bank 8-12-05
8-8	8	5	9.0	
8-9	8	5	9.0	
8-10	8	5	9.0	
8-11	7	4	9.0	
8-12	8	5	9.0	
			45 HRS	
			5 HRS OT + 7 HRS of Bank	



David Thrasher

2005

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
12 HRS OT + 40 HRS Reg				
8-15	8:15	3:00	7.75	
8-16	8:00	5:00	9.0	
8-17	8:00	5:00	9.0	
8-18	8:00	5:00	9.0	
8-19	8:00	5:00	9.0	18 ot used.
			43.75	2.75 ot Bank
8-22	8:00	5:00	9.0	
8-23	8:00	5:00	9.0	
8-24	8:00	5:00	9.0	
8-25	8:00	5:00	9.0	
8-26	8:00	6:00	10.00	
			40 reg 6 OT	+ 2.75 = 8.75 ot
8-29	8:00	5:00	9.0	
8-30	8:00	5:00	9.0	
8-31	8:00	5:00	9.0	
9-1	8:00	5:00	9.0	
9-2	8:00	5:00	9.0 + .15 min	9.0 14.00
			40 reg 5 OT	5 + 8.75 = 13.75

use 16 ot transfer  
 10 transfer 3.75

~~Transfer 3.75 OT HRS~~

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
9-5	OFF	Holiday		
9-6	8:00	5:00	9.0	
9-7	8:00	5:00	9.0	
9-8	8:00	5:05	9.0 9.25 + transfer 15 min to 9-2-05	
9-9	8:00	5:00	9.0	
			36 REG	
9-12	8:00	5:00	9.0	
9-13	8:00	5:00	9.0	
9-14	8:00	5:00	9.0	
9-15	8:00	5:00	9.0	
9-16	8:00	5:00	9.0	
			45 REG 40 REG 5 OT	80+10+
9-19	8:00	5:00	9.0	
9-20	8:00	5:15	9.25	
9-21	8:00	5:00	9.0	
9-22	6:00	4:00	10.0	
9-23	<del>8:00</del>	<del>5:00</del>	<del>4.00</del> OFF For Criminal class	
			37.25	

37.25

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
9-26	8:00	5:00	9.0	
9-27	8:00	5:00	10.0	
9-28	8:00	6:00	9.0	
9-29	8:00	5:00	9.25	
9-30	8:00	5:00	9.0	
			46 HRS 40 Reg 6 OT	46.25 83.50 License
				38.25 4 OT .50 Transfer
10-3	8:00	5:00	9.0	
10-4	8:00	5:00	9.0	
10-5	8:00	5:00	9.0	
10-6	8:00	5:00	9.0	
10-7	8:00	5:00	9.0	
			40 Reg 5 OT	<del>5 transfer</del>
10-10	8:00	5:00	9.0	
10-11	8:00	5:00	9.0	
10-12	8:00	5:00	9.0	
10-13	8:00	5:00	9.0	
10-14	8:00	5:00	9.0	
			40 Reg 5 OT	
			80 Reg 10 OT	

80.0  
OT 10.0

2005

David Thrasher

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
10-17	8:00	5:00	9.0	
10-18	8:00	5:00	9.0	
10-19	8:00	5:00	9.0	
10-20	8:00-10:00	12:00 5:00	7.0	
10-21	8:00	5:00	9.0	
			3	
10-24	8:00	5:00	9.0	
10-25	8:00	5:00	9.0	
10-26	8:00	5:00	9.0	
10-27	11:30	5:00	5.5	
10-28	8:00	5:00	9.0	
				80.0 4.5 OT
10-31	<del>OFF</del>			
11-1	8:00	5:00	9.0	
11-2	8:00	5:00	9.0	
11-3	8:00	5:00	9.0	
11-4	8:00	5:00	9.0	
			36.00	

43

41.50  
84.50

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
11-7-05	8:00	5:00	9.0	
11-8	8:00	5:00	9.0	
11-9	8:00	5:00	9.0	
11-10	7:00	5:00	10.0	R - 76.0 OT - 6.0
11-11	8:00	5:00	9.0	
			46 hrs + 36 hrs	80 hrs 2 OT
11-14-05	8:00	5:00	9.0	
11-15	7:40	5:10	2.5	
11-16	8:00	5:00	9.0	
11-17	8:00	5:00	9.0	
11-18	8:00	5:00	9.0	
				4550
11-21	8:00	5:00	9.0	
11-22	8:00	5:00	9.0	
11-23	8:00	5:45	9.75	
11-24	off			27.75
11-25	off			
				R. 62.75 OT - 5.50

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
11-28	8:00	5:00	9.0	
11-29	8:00	5:00	9.0	
11-30	8:00	5:00	9.0	
12-1	8:15	5:45	9.5	
12-2	8:00	5:00	9.0	
12-5	8:00	5:00	9.0	
12-6	8:00	5:00	9.0	
12-7	8:00	5:00	9.0	
12-8	8:00	11:45	3.75	
12-9	<del>8:00</del>			
12-12	OFF			
12-13	OFF			
12-14	8:30	5:15	8.75	
12-15	8:00	5:00	9.0	
12-16	8:00	5:00	9.0	
<del>12-17</del>	<del>11:00</del>	<del>6:00</del>	<del>9.0</del>	

45.50

30.75

R. 70.75  
O.T. 5.50  
76.25

26.75

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
12-17	11:00	6:00	7.0	
12-19	8:00	5:15	9.25	
12-20	8:00	5:30	9.5	
12-21				
12-22			8.0	
12-23			8.0	<del>41.75</del>
12-26			8.0	
12-27			8.0	
12-28			8.0	
12-29			8.0	
12-30			8.0	<del>40.00</del>
			<u>108.50</u>	
		R.	106.75	
		O.T.	1.75	

**Former Employee:**

**Luther Quintana**



# Luther Quintana

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
1/22	10:45	11:15	TURNER (91) County 3148	CG $\frac{1}{2}$
1/24	7:30	8:00	Cedar Grove	Check Tank $\frac{1}{2}$
"	8:00	12:00	Taylor Commercial	land 4
"	12:00	12:30	— Lunch —	<del>CG</del>
1/24	12:30	5:30	Taylor Commercial land	5.16 327230 5
1/25	7:30	10:30	Porter Mtn	(Meters) Represent = Turner CG 3
"	10:30	11:00	Cedar Grove	(Office) $\frac{1}{2}$
"	11:00	11:45	— Lunch —	
"	11:45	5:00	Taylor Commercial land	5 $\frac{1}{4}$
2/2	7:45	12:00	Taylor Commercial land	4 $\frac{1}{4}$
"	12:00	12:45	— Lunch —	
"	12:45	5:15	Taylor Commercial land	4 $\frac{1}{2}$
2/3	7:30	8:00	Check Tank Cedar Grove	$\frac{1}{2}$
"	8:00	12:00	Taylor Commercial land	4
"	12:00	12:45	— Lunch —	
"	12:45	5:30	Taylor Commercial land.	4 $\frac{3}{4}$
			CG-2hrs	Total = 36 $\frac{3}{4}$
			CGWM-3hrs	
			land-31.75 hrs.	

Luther Quintana

1 of 2

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
2/7	7:30	8:45	Cedar Grove Miller DLE	Turn off 6850 1 1/4
"	8:45	9:15	Silver Lake	Turn on 154030 Ticket 8555 1/2
"	9:15	12:00	Taylor Commercial	2 3/4
"	12:00	12:30	— Lunk —	
2/8	12:30	5:30	Taylor Commercial	5
"	8:00	12:00	Taylor Commercial	4
"	12:00	12:45	— Lunk —	
"	12:45	6:00	Taylor Commercial	5 1/4
2/14	7:30	8:30	Chick Tank	1
"	8:30	11:00	Silver Lake 8447 Antelope	(0079701456 meters) Hi - 1410104492 2.
"	12:00	12:00	Taylor Commercial	1
"	12:00	12:45	— Lunk —	
"	12:45	5:15	Taylor Commercial	4 1/2
2/15	7:30	12:00	Silver Lake (Meters)	4 1/2
"	12:00	12:45	— Lunk —	
"	12:45	3:30	Boundary Ranch	(Meters) 2 1/2
"	3:30	4:30	Cedar Grove	(Meters) 1
2/16	7:30	11:00	Cedar Grove	(Meters) 3 1/2
"	11:00	11:45	Service Bery	3/4

~~Handwritten scribbles and signatures at the bottom of the page.~~



Luther Quarter

1 of 2

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
2/21	7:30	8:30	Cedar Grove	Check Tanks Office 1
"	8:30	11:00	Taylor Commercial	2 1/2
"	11:00	11:45	Water (Peterson)	3/4
"	11:45	12:00	Taylor Commercial	1/4
"	12:00	12:45	<del>_____</del> Lunch <del>_____</del>	
"	12:45	5:00	Taylor Commercial	4 1/4
2/22	7:30	8:45	Cedar Grove	1 1/4
"	8:45	12:00	Taylor Commercial	3 1/4
"	12:00	12:45	<del>_____</del> Lunch <del>_____</del>	
"	12:45	5:15	Taylor Commercial	4 1/2
2/23	7:00	7:30	Check Tanks	1/2 (SAT. (1770) Turn on Brew 1 3/4)
"	7:30	9:15	Silver Lake	Discount 8524 Jan Smith
"	<del>9:15</del>	<del>12:00</del>	8446 Big Bear (Beachline) 504596 8434 " " (SMITH) 370740 L SA 322060	
"	<del>12:00</del>	<del>1:00</del>	<del>_____</del> Lunch <del>_____</del>	
"	<del>1:00</del>	<del>3:00</del>		
"	<del>9:15</del>	<del>12:30</del>		
"	12:30	1:00	<del>_____</del> Lunch <del>_____</del>	
"	1:00	3:00		2
"	3:00	5:15	Silver Lake	Discount 8526 Federal 107100

8530 Quail Run 8580  
84 Antelope Heath Wood Paid  
Turn on

# Luther Quintana

2 of 2

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED	
3/1	7:00	7:30	Serve Benny Cover	Disconnect (714050)	1/2
"	7:30	10:00	Cedar Grove	Disconnect (Damon Lopez (403498))	2 1/2
"			330	OWEN AT AIR 5720	)
			Phil and Teresa Meyer (69-3323)	CHRIS Chisler 21-3313 (627900) Alan Daniels 22-3323 ( )	)
			(77-3323) Ron Bassinger (134170)		)
"	10:00	12:30	Silver Lake	Disconnect 8563 Duck Rabbit 8560 Jack Rabbit 842520 1221 Brown Trout 70330 8557 Quail Run (206450) 8567 Quail R (91350) 8546 Deer Run (785420)	2 1/2
3/1	12:30	1:00	— Lunch —		
"	1:00	3:00	— Porter Mtn (Meters) —		2
"	3:00	4:30	TURN ON'S	Silver Lake (842520) 8560 Jackrabbit 84340 BEAR (3220608) 8546 Deer Run (785420)	1 1/2
"	4:30	5:15	Cedar Grove	Reed E.R. 14050 - lot 53	4
			(TURN ON Meyer) 3323 (304390)		4
				Total = 34 Hours	

# Lillian Quintman

1 of 2

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
3/7	7:00	7:30	Check Tanks	1/2
"	7:30	12:00	Talyan Communal	4 1/2
"	12:00	12:45	— Lunch —	—
"	12:45	5:45	Talyan Communal	5
3/8	7:00	7:30	Check Tanks	1/2
"	7:30	12:00	Talyan Communal	4 1/2
"	12:00	12:45	— Lunch —	—
"	12:45	5:15	Talyan Communal	4 1/2
3/9	7:00	7:30	Check Tanks	1/2
"	7:30	12:45	Talyan Communal	5 1/4
3/14	7:00	7:30	Check Tanks	1/2
"	7:30	1:00	Peterson Water	5 1/2
"	1:00	1:45	— Lunch —	—
"	1:45	6:00	Talyan Communal	4 1/4
3/15	7:00	12:00	Silver Lake (Meters)	5
"	12:00	1:00	— Lunch —	—
"	1:00	1:45	Bourdon Ranch (Meters)	3/4
"	1:45	5:00	Cedar Grove (Meters)	3 1/4
3/16	7:00	11:15	Cedar Grove	4 1/4

Pedlin 35530  
Tanner 5 1/4



Luther Quintana

1 of 2

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
3/21	7:00	7:30	check Tank	Cedar Grove $\frac{1}{2}$
"	7:30	12:00	Taylor Commercial	$4\frac{1}{2}$
"	12:00	1:00	-Lunch-	
"	1:00	5:15	Taylor Commercial	$4\frac{1}{4}$
3/22	7:00	7:30	Tractor Problem	Cedar Grove $\frac{1}{2}$
"	7:30	17:15	Taylor Commercial	$4\frac{3}{4}$
"	12:15	1:00	-Lunch-	
"	1:00	5:15	Taylor Commercial	$4\frac{1}{4}$
3/23	7:00	12:45	Taylor Commercial	$5\frac{3}{4}$
"	3:00	3:30	Took Truck to	Bill's Garage (Cedar Grove) $\frac{1}{2}$
3/26	11:00	11:30	Bill's Garage	(Cedar Grove) $\frac{1}{2}$
3/28	7:00	7:30	check Tank	(Cedar Grove) $\frac{1}{2}$
"	7:30	9:45	Power Mtn.	(Metros) $2\frac{1}{4}$
"	9:45	12:00	Billy's Pick-up	(Metros) Taylor Commercial $2\frac{1}{4}$
"	12:00	12:45	-Lunch-	
"	12:45	5:30	Taylor Commercial	$4\frac{3}{4}$
3/29	7:00	12:00	Peterson Water	5
"	12:00	1:00	-Lunch-	
"	1:00	5:30	Taylor Commercial	$4\frac{1}{2}$





## Luther Quintana

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED
4/18	7:00	8:45	Check Tank Tuck up Books Run	Cedar Grove 1 3/4
"	8:45	12:15	Silver Lake	(Meters) 3 1/2
"	12:15	1:00	———— Lunch ————	
"	1:00	1:30	Bowdoin Ranch	(Meters) 1/2
"	1:30	2:45	Cedar Grove	(Meters) 1 1/4
"	2:45	3:30	Service Berry	(Meters) 3/4
"	3:30	5:00	Cedar Grove	(Meters) <sup>Set meter 319.00 = Lot 20</sup> 1 1/2 Lot 21
4/19	7:00	11:45	Cedar Grove	(Meters) 4 3/4
"	11:45	12:30	———— Lunch ————	
"	12:30	2:00	Cedar Grove	(Meters) <sup>Set meter</sup> 1 1/2 Lot 20
"	2:00	5:15	Silver Lake	(Meters) 3 1/4
4/25	7:00	12:00	Taylor Council	5
"	12:00	12:30	———— Lunch ————	
"	12:30	5:30	Taylor Council	5
				Total = 28 3/4



# Luther Quintana

1 of 2

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED	
6/1	7:00	7:30	Check Tanks	Cedar Grove	1/2
"	7:30	10:00	Poktan Mt	(Meters)	2 1/2
"	10:00	11:00	Cedar Grove		1
"	11:00	11:30	— Lunch —		
"	11:30	2:30	Peterson	(Meters)	3
"	2:30	4:00	Silver Lake	Exchange Meter TWO on OFTS	1 1/2
6/6	7:00	8:00	Cedar Grove	Check Tank	1
"	8:00	9:00	Poktan Mt	LA. WATER 3 38620 TOWN OF	1
"	9:00	12:30	Water Disconnection	8557 (JAIL) 296460 8471 (JAIL) 1988370	3 1/2
"	"	"	Vicent Virgin R.R.	#1410104558 Old Meter	275780
"	"	"	Joneson R.R.	#1410104498 Old (970)	
"	12:30	1:00	— Lunch —		
"	1:00	2:00	OFFICE	Cedar Grove	1
"	2:00	5:45	Peterson	Install R.R. Meters	3 3/4
"			Jam Marshall	= 1410104508 Old	4085410
"			Pat Parcell	= 1410104698 (1970) (Old 452690)	
"				Beginning Readings	
"			Yellow Air	= 1410104514 (Old 327100)	
6/7	7:00	11:30	Cedar Grove		4 1/2
"	11:30	12:00	— Lunch —		



# Luther Quintana

1 of 2

DATE	START TIMES	STOP TIMES	LOCATION	JOB PERFORMED	
6/15	7:00	7:30	Cedar Grove	Check Tank pumps	1/2 -
"	7:30	12:00	<sup>Pick-up</sup> Silver Lake	(meter)	4 1/2 -
"	12:00	12:30	— Lunch —		
"	12:30	1:00	Bowdoin Ranch	(meter)	1/2 -
"	1:00	<del>1:30</del> 3:00	Cedar Grove	(meter)	2 -
"	3:00	3:30	Service Berry	(meter)	1/2 -
"	3:30	4:30	Cedar Grove	(meter)	1 -
6/16	7:00	12:00	Cedar Grove	(meter)	5 -
"	12:00	12:45	— Lunch —		
"	12:45	3:45	Silver Lake	(meter)	3 -
6/20	7:00	8:00	Cedar Grove		1 -
"	8:00	10:15	Pick-up	Supplement Cedar Grove	2 1/4 -
"	10:15	1:00	Silver Lake	Collects Disconnects	2 3/4 -
"	1:00	1:30	— Lunch —		
"	1:30	4:30	Cedar Grove	Disconnect	3 -
"	<del>12:00</del> 5:00	<del>5:30</del> 5:30	Turnoffs	Cedar Grove	1/2 -
6/21	7:00	12:00	Porter Mtn	(Flush out Cut weeds)	5 -
"	12:00	12:30	— Lunch —		
"	12:30	7:00	Porter Mtn		1/2 -

4/1000 30 / 4 5000 / Box of INSECT

