



PASCOAG
UTILITY DISTRICT

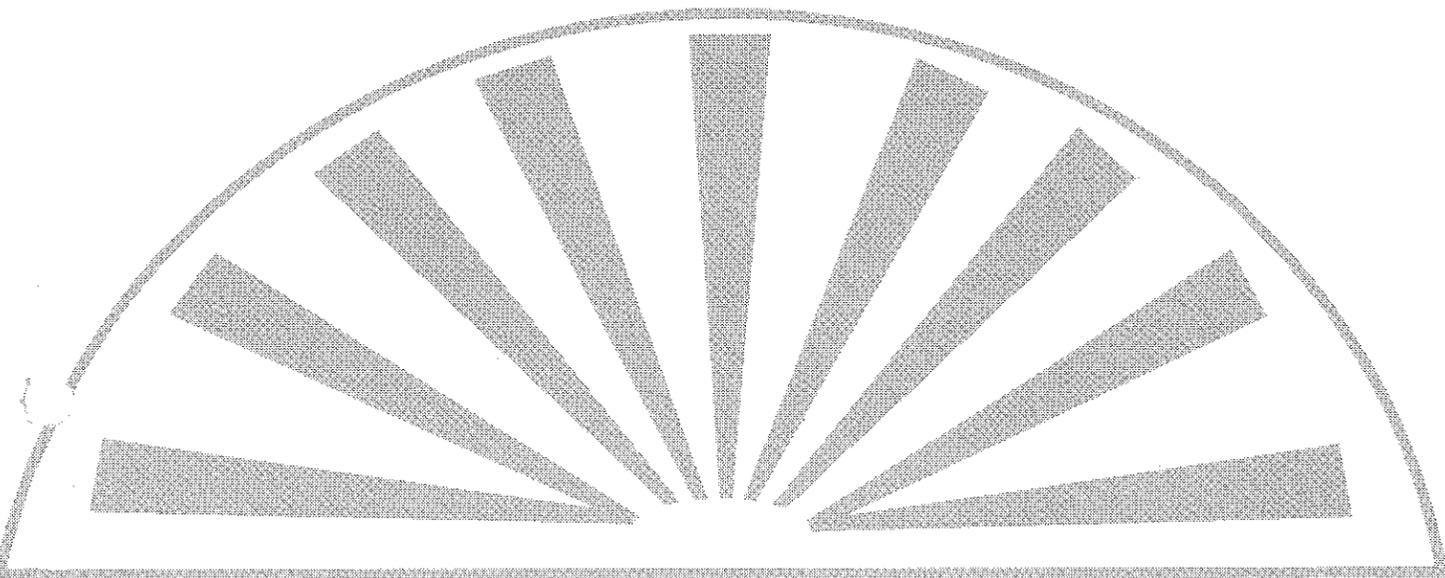
Pascoag Electric • Pascoag Water

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www.pud-ri.org

PASCOAG UTILITY DISTRICT'S
DEMAND SIDE MANAGEMENT
PROGRAM – 2010

RIPUC DOCKET NO. 4130

RECEIVED
2009 NOV -6 PM 12: 20
PUBLIC UTILITIES COMMISSION



**PASCOAG UTILITY DISTRICT
ELECTRIC DEPARTMENT**

**PASCOAG UTILITY DISTRICT'S
DEMAND SIDE MANAGEMENT PROGRAM – 2010**

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November 6, 2009

Ms. Luly Massaro
Clerk of the Commission
Rhode Island Public Utilities Commission
89 Jefferson Boulevard.
Warwick, RI 02888

Re: RIPUC DOCKET NO. 4130

RECEIVED
2009 NOV -6 PM 12: 21
PUBLIC UTILITIES COMMISSION

Dear Ms. Massaro:

On behalf of the Pascoag Utility District ("Pascoag" or the "District"), we herewith file an original and nine copies of Pascoag's proposed Demand Side Management Program for 2010. This submission includes Pascoag's Executive Summary, Program Details for 2010, reconciliation of 2009 DSM activity and budget, and other schedules that support this docket.

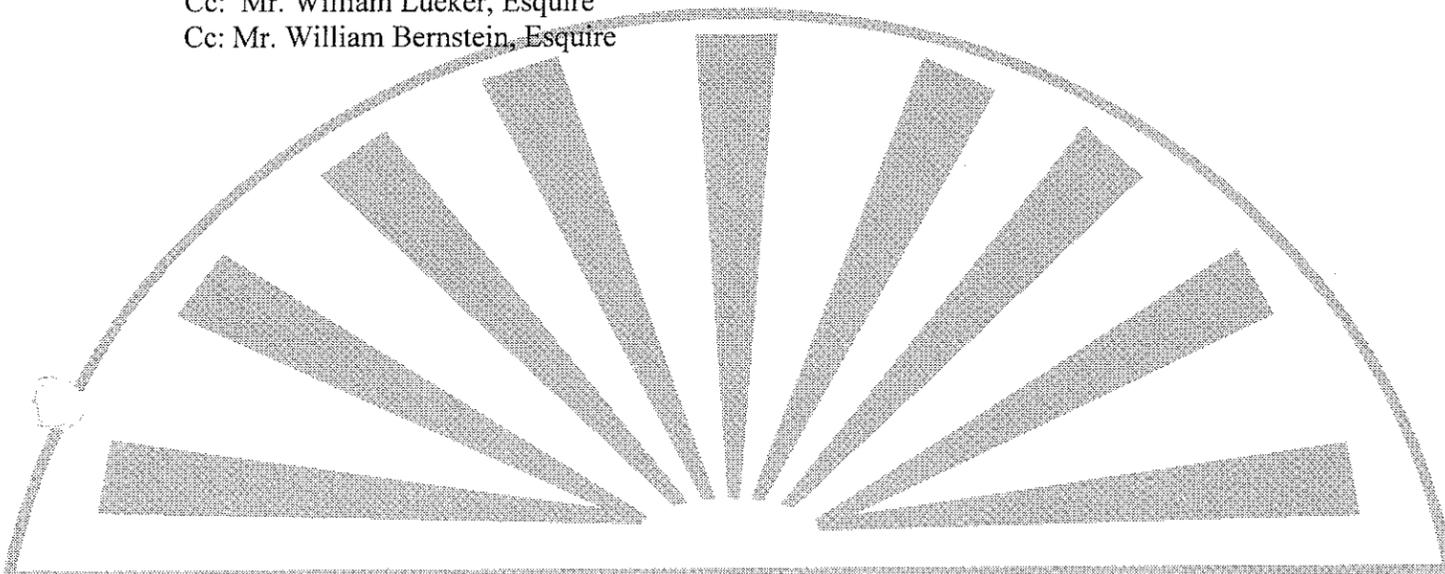
If you have any questions, please do not hesitate to contact me.

Very truly yours,

Harle Round

Harle Round
Customer Service Supervisor

Cc: Mr. William Lueker, Esquire
Cc: Mr. William Bernstein, Esquire



Pascoag Utility District
Demand Side Management Programs - 2010

	Actual
Estimated carry over from 2009	\$ -
Estimated sales for 2010	\$ 104,500.00
Net 2010 budget	\$ 104,500.00

	Proposed 2010	
Residential Program		
DR1001 ENE Residential Conservation (ENE)	2,100	\$175 per month
DR1002 Home Energy Audits with Incentives	2,400	up to 10 Audits @ \$200, funds for rebates up to \$400
DR1003 Energy Star Appliance Rebates	6,100	up to a max of 81 rebates at \$75
DR1004 Energy Efficient Windows/Doors	6,000	up to a Max of 400 Windows at \$15 or 150 Doors @\$40.
DR1005 Heating System Incentive	6,000	up to a max of 24 rebates at \$250
DR1006 Energy Star Thermostats/Lighting fixtures	1,000	up to 20 rebates at \$50 Max
DR1007 Home Office Equipment/Home Electronics	2,400	up to 48 rebates at \$50 Max
DR1008 Electric Heat Conversion/Geothermal System:	100	to keep the line item open for future requests.
DR1009 New Construction	4,160	8 units at \$520 Max
DR1010 Central Air Conditioner Incentive	400	up to 2 rebates at \$200 Max
DR1011 Change a Light Campaign	500	\$50 up to a max of 10 rebates with a 50% match
DR1012 Energy Conservation Calendars	3,680	1000 Calendars at \$3.25 each & setup charge & Shipping
Net Residential	\$ 34,840	
Industrial/Commercial		
DI1001 Energy Star Incentive - Office Equipment	500	up to 10 rebates at \$50 max
DI1002 Bridco's IGA	10,367	Lighting Retrofit at 50%/ new lighting @30%
DI1003 GS Inc	525	HVAC Equipment
DI1004 Committed Funds- Lighting Projects	12,325	funds that would be available for lighting projects
DI1005 Consultation Fees	1,000	to consult with Rise and National Grid
DI1006 Energy Star Commercial Appliance	700	up to 2 rebates at 10% not to exceed \$350
Net Industrial/Commercial	\$ 25,417	
Administrative/Ad/Education		
DA1001 Administrative	20,000	Staff hours to administer the program, mileage, supplies.
DA1002 Funds for Follow-up to Successful Programs	743	To be used on more successful programs
DA1003 Outreach/Education	7,500	To update the web site with DSM programs
DA1004 BHS Project	8,000	To partner with the High school in 2010 and include a cookout
DA1005 Community Projects	8,000	To purchase conservation materials, and attend the 2010 Family Fair and other community events.
Net Administrative/Ad/Education	\$ 44,243	
Total suggested DSM 2010 Budget	\$ 104,500	

Pascoag's 2010 Demand Side Management Program
Executive Summary: Submitted by Harle J. Round

The Residential Programs proposed by Pascoag Utility District for 2010, closely mirror our very successful 2009 programs.

Products that earn the ENERGY STAR trademark prevent gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy. Most consumers today realize that by purchasing ENERGY STAR qualified products they can reduce their own energy consumption. It is the District's goal to encourage our customers to buy ENERGY STAR compliant products to help control our consumption demand and reduce greenhouse gas emissions that are contributing to global warming. ENERGY STAR compliant appliances and electronics are being positioned as part of the solution to rising energy costs, and the need for energy efficiency to reduce greenhouse gas emissions. The ENERGY STAR programs that we have in place continue to experience a high customer demand.

However, The District will continue to monitor its programs and will seek permission to reallocate funds should certain programs not perform to expectations.

Energy New England ('ENE') - The energy hot line continues to be a very good resource for the residential customer. Customers with questions about high energy demand can call the toll free number for assistance. Many questions can be answered over the phone. The customer is also offered a home energy audit. The fee for this line item will remain at \$175 per month in 2010.

ENERGY STAR Audits are a very educational tool for homeowners. ENE performed seven audits as of October of 2009. Each home owner was given a report on ways to save energy. Many of the upgrades that are suggested in the audits correspond with programs set up for rebates by the District. It is our finding that the customers will take the report and over several years replace things like the boiler, windows, doors, appliances, programmable thermostats, light fixtures, and light bulb, thereby taking advantage of the applicable rebates.

The District would like to continue to offer the home energy audits in 2010. The District would like to keep the number of audits at ten at a cost of \$200 each and have \$400 available for audit recommendations that are not covered by the rebate programs.

Rebates for ENERGY STAR Appliances continue to be one of our most popular programs. The approved budget, as of July 2009, of \$6600 for the appliances programs was depleted by September of 2009. The District is proposing a budget of \$6100 in 2010.

The ENERGY STAR Windows and Doors incentives, with an approved budget, as of July 2009, of \$6100.00 were depleted in August of 2009. The District is proposing a

budget of \$6000 and would like to decrease the rebate from \$25 per window to \$15 and from \$50 per door to \$40 with a maximum of 10 windows and 1 door. This would allow more people to take advantage of this program next year. These customers can also take a 30 % tax credit for these energy saving measures as long as the windows and doors have a U-Factor of .30 or lower. The 30% tax credit is effective in 2009 and has been extended to 2010 as well.

ENERGY STAR Heating Systems program with an approved budget, as of July 2009, of \$6450 was depleted in August of 2009. The District is also proposing a reduction in the rebate from \$350 to \$250 which would allow more people to take advantage of the rebate and because they can also apply for a tax credit for this energy saving measure on their income taxes. The District would like to fund this line item at \$6000 in 2010.

If there are funds unspent at the close of 2009 in the residential programs, the District will again request to use those funds to satisfy any outstanding qualified applications in the various residential programs, where the funds have been depleted. If there are still applications that have not been rebated and the 2009 funds have been depleted the District would like to rebate these customers at the 2010 rebate amounts in 2010. The District has based its 2010 budget with no carried over funds from 2009.

ENERGY STAR Thermostats/Lighting Fixtures with a budget of \$1,000 had twelve rebates as of October 2009 totaling \$379.30. We expect more requests for programmable thermostats with the onset of winter. The District would like to continue this line item again next year at the same level of funding.

ENERGY STAR Home Office/Electronic equipment with an approved budget of \$2400, as of July 2009, has had 65 rebates totaling \$2400 through October 2009. The District would like to fund this at the same level as last year

The District seeks to retain the line item for Incentives for Electric Heat Conversion /Geothermal Systems at a budget of \$100. This will continue to leave the line item open should we have a request to convert from electric heat to another source. The District did not have any requests in 2009 for this line item.

New Construction rebates have seen a decline in requests from the contractors as a result of the economy. The District has not processed any rebates as of October of 2009. The Harrisville Village will be continuing construction on more units as well as the Mill Pond Village. They will continue to build units as they are sold. The District is requesting to decrease the funding for this program to \$4160 in 2010. The rebate for the windows in this program would also be decreased from \$25 per window to \$15 per window and the doors from \$50 to \$40, with a cap of \$520 per unit or home in 2010. The boilers already have a cap of \$250. This will allow us to process a total of eight rebates in 2010.

Central Air Conditioning with an approved budget of \$400, as of July 2009, still has some interest from the customers. The District has processed two rebates in 2009. The temperatures this summer were below normal and may have contributed to the lack of interest. The District would like to continue this program with the same level of funding, this will allow us to process two rebates and leave the line item open for reallocations if interest picks up in 2010.

The District would like continue the "Change a Light, Change the World Campaign." Our customers were asked to take a pledge to help change the world one light, one energy-saving step at a time. The District has processed \$58 in rebates, and continued to promote this program at the open house. The District would like to fund this program next year at the same level as the approved budget of \$500, as of July 2009.

The Energy Conservation Calendars were a big hit with our customers last year. Each month there were tips on conserving energy, and the District was able to customize the calendar with a page dedicated to the Demand Side Management Programs that are offered and the available rebates. The District is requesting that we decrease the number of calendars from 1500 to 1000. The budget would decrease from a cost of \$4440 to \$3680.

The ENERGY STAR incentive for office equipment and electronics that was available to our Commercial and Industrial customers has been active this year. We have processed two rebates totaling \$404. The District would like to continue this program with the same level of funding for 2010 which is \$500.

Lighting Projects completed in 2009:

- Burrillville High School Gym received a rebate of \$12040, when they completed a retrofit lighting project and replaced the lighting in the gym.
- Parks and Recreation office received a rebate of \$612, when they completed a retrofit lighting project.
- The Legion Hall received a rebate of \$232, when they completed a retrofit lighting project.
- The Town Hall received a rebate of \$3276, when they completed a retrofit lighting project.
- Beckwith-Bruckshaw Memorial Lodge received a rebate of \$1420, when they completed a retrofit lighting project.

The District has identified two possible retrofit lighting projects for 2010. An audit has been completed by RISE Engineering for Bridido's IGA in Pascoag with a

possible rebate of \$10367. G S Inc. has expressed an interest in installing a HVAC system that would qualify for a total rebate of \$525.

Over the past several years the District has worked hard to creating programs that are utilized by our customers. The outreach and educational programs that have been undertaken has resulted in a greater awareness of the importance of conserving energy; this is reflected in the fact that we only carried over \$1387 last year and do not expect to have a carryover of funds this year. We no longer have large sums of unspent money carried over year after year so the District is proposing a decrease for the retrofit lighting projects from a 60% to a 50% rebate and a decrease for new lighting projects from 40% to a 30% rebate for our commercial and industrial customers. This would allow us to accommodate more commercial and industrial customers and still give them generous rebates on their conservation measure.

Committed Lighting fund- The Town Garage did not complete its lighting project from 2008 until March of 2009. They received a rebate of \$4016 for their retrofit lighting project that was completed by RISE Engineering. In 2010 the District would like to fund this line item with \$12,325 to accommodate lighting projects that have been identified. This would allow us to have funds available and give us some flexibility should a commercial or industrial customer want to go forward with a new or retrofit lighting project. The District has identified three business that are interested in receiving energy audits; Tanner Hill Inc, Wallum Lake Rod and Gun Club, and GLS Auto. The audits will be performed by RISE Engineering. The Burrillville High School has expressed an interest in doing a retrofit lighting project in the Phys Ed Gym.

Consultation fees- This line item is funded at \$1000 to provide assistance from National Grid or RISE Engineering with the calculation of energy savings on commercial and industrial projects. This year Pascoag Utility District incurred no fees to this line item so funds were transferred to other programs in the July reallocation. In 2010 we would like to fund this line item at \$1000.

Community Christmas LED Lights- the District has not processed any rebates for this line item. We will be checking with Pascoag and Harrisville Fire District to see if they plan on purchasing more lights this year. The District will not continue this line item in 2010.

ENERGY STAR Commercial Appliances had no activity in 2009. The District recommends continuing with this program for one more year. The District has several restaurants and nursing homes that might take advantage of this line item. The District is requesting a budget of \$700 and has added several new appliances to the list.

The Administration line item calls for funding at the same level as last year. District Staff spends many hours reconciling the budgets, processing rebates, working with potential rebate customers, reporting to the State of Rhode Island Public Utility Commission, and researching new programs. The budget will remain at \$20,000.00 to cover the time spent to oversee this most worthwhile endeavor.

In July of 2009 the District moved the Funds for Follow-Up to Successful Programs to our more successful residential programs. The District would like to keep this line item open in 2009 with \$743.

The District continued the customer outreach program in 2009. The District worked with Soleil to update our conservation programs and rebate forms on the web site. An Open House was hosted on October 3, 2009. The open house highlighted energy conservation flyers and conservation giveaways. There were activities for children and families along with energy conservation tips and handouts. Energy New England hosted a booth with tips and flyers on conservation as well as providing reusable grocery bag. The Burrillville High School Video production team attended and showcased their video on the recycling of CFL light bulbs. The students from the BHS Tech Club built a scale model of an energy efficient, sustainable house that was donated by Thames & Kosmos, a maker of science kits. The house demonstrated the use of solar and wind power and included a windmill, solar water heater, solar oven, solar grid, greenhouse, refrigerator, and air conditioner. A picture of this house is included in this filing in Schedule G. There was a booth from URI Master Gardener's, Malloy Bio-fuels, RI Resource Recovery, Greensulators, as well as the Ponaganset High School Fuel Cell Vehicle. The Burrillville farmers market joined us on the Districts' grounds and was a great addition.

The District staff cooked hotdogs and hamburgers and, for a donation of a can good for the local food bank, there was a free apple crisp sundae, a bag of popcorn or a cotton candy. The day was rainy but that didn't dampen the spirit of the staff or the large number of customers who attended this event. The open house continues to grow each year both in attendance and vendor participation. By hosting this event at our office it ensures that our customers are reaping the benefits and being educated with the latest in energy efficiency. We would like to fund the line item for Outreach/Education at \$7500 in 2010. This will allow the District to update the website with the programs for 2010 at www.pud-ri.org. The District would also use some of these funds for advertisements in the Bargain Buyer, and utilize bill inserts with our programs in 2010 and allow us to host an open house again next year.

Pascoag continues to be very active in maintaining a presence at community events. In 2009 we participated in the Burrillville Family Fair and the Energy Expo held in Warwick. At the Family Fair, we handed out materials on conservation which included brochures, energy wheels, nightlights, refrigerator thermostats, and refrigerator brushes. The feed back is always positive from our customers who come back year after year.

During Public Power week, many activities took place with the elementary school students, including a number of conservation activities. The District will also be giving away conservation items like night lights and refrigerator brushes in exchange non perishable food donations for the Districts food drive. The District would like to continue Community Projects with a budget of \$8000 in 2010.

Burrillville High School Project- As always this partnership continues to be very rewarding. The Engineering Class from BHS worked on a project to promote CFL bulbs and the importance of proper recycling. The students stepped up to the challenge by creating different types of boxes to safely transport the light bulbs, collected at the District office, to the Home Depot, our partner in the CFL recycling program.

All the projects, including the box designs and videos, were presented to a panel from Pascoag Utility District who had the difficult task of choosing the winners.

The Video Technology Class was challenged to create a video on the importance of the CFL Bulbs and proper recycling techniques. The winners of this challenge created a video on the importance of switching to CFL's in your home. They promoted the energy savings and the positive environmental impact that these bulbs have on saving our resource by using less energy. They interviewed the District's staff and promoted the fact that all residents of Burrillville can bring their burnt out bulbs to the District Office during normal business hour to be recycled properly. The winning video featured a news report format and won the challenge based on their professionalism, research on the subject matter, and careful selection of back ground music that tied into the subject. "Reuse, Recycle."

The District would like to continue this relationship again this year, with Mr. Aldrich and his students. The District met with Mr. Aldrich over the summer to explore options for new projects in 2010. The challenge will be to research and create flyers on smart metering, the smart grid, smart appliances, distributed generation and other sustainable options. The District would like to fund this line item at the same level in 2010.

The funding for the 2010 Demand Side Management Program is based on the 2.0 mils per kilowatt-hour assessment established by the legislation. A residential customer using 500 kWh pays a \$1.00 on their monthly electric bill for these conservation programs or about \$12.00 per year. The customer has seen the DSM assessment since its inception, and there is a separate line item on the monthly unbundled electric bill identifying this conservation cost.

With the cost of electricity the District does not want to burden the rate payers with higher demand side management charges. At this time we are suggesting a slight decrease in several rebates to allow more customers to take advantage of the rebates. The programs that will be decreased are windows & doors, boiler rebates, retrofit light rebates as well as new lighting rebates

Pascoag's proposed budget is based on a forecast of Sales for 2010 of 52,030,380 kWhr. The estimated budget is rounded up to \$104,500 for 2010. The District is not anticipating any carryover fund from 2009 but if there are additional funds carried over the District would like to allocate them to the Funds for Follow-up to Successful Programs.

2010 Program Details- Residential, Commercial and Industrial,
Administrative/Ad and Customer Education and Outreach

Residential Programs

In 2010 Pascoag plans to continue all of the current Residential Programs from 2009. Owing to continued high customer demand, Pascoag believes these programs will continue to be successful in 2010.

This Summary will detail the programs proposed for 2010 and will review the success of the 2009 programs

Energy New England – Residential Conservation Services \$2100:

Pascoag will continue its relationship with Energy New England (“ENE”) in 2010. The Residential Conservation Service (“RCS”) provides invaluable technical support to the District staff as well as its customers.

In addition to this support, ENE supplies fulfillment materials to the customers of the District. The materials include energy smart CD’s, conservation booklets, and reference materials and resources. ENE sponsors a toll free energy hot line that is available to customers during normal business hours. Pascoag refers customers with high consumption complaints to this hot line after performing a meter test to rule out a faulty meter. If the customers’ questions can not be resolved over the phone, ENE schedules a home energy audit which goes into greater detail as to how the customer can conserve energy. This year Pascoag tested over twenty five meters* and sent letters to each customer referring these customers to the toll free energy hot line.

ENE also sponsors an Advisory Group. The Advisory Group includes people from several municipal utilities from the entire New England area. The group meets quarterly to share ideas on all aspects of energy conservation. Pascoag is a member of the Advisory Group.

The cost for this service remains at \$175 per month in 2010.

Audits with Follow-Up Incentives-\$2400:

Pascoag would like to maintain the same number of audits in 2009, and maintain the same level of funding available for incentive follow-up. This would allow the following:

10- Audits @ \$200 each	\$2000
Money available for Incentives	\$400

* Meters were proven to be within acceptable accuracy limits

ENE has raised the price to \$200 for each home energy audit in the 2010 calendar year, due largely to the increase in traveling expenses. The District has a small number of customers that have taken advantage of the incentives on suggested measures including insulation, weather stripping, electrical outlet insulators, and attic door insulation, etc. Therefore the District proposes to keep that incentive at ten percent (not to exceed \$50). The suggested measures must be implemented in the same calendar year as the audit to qualify for the incentive and can not be a duplicate of a program already established for rebates.

Pascoag has no auditors on staff, and it is more cost effective to use ENE's certified auditors.

ENERGY STAR Appliance Rebates: \$6100

Pascoag would like to fund this line item at \$6100 in 2010. This program continues to be very popular. The District has depleted its entire \$6600 budget for 2009. When a customer purchases an appliance they have to remember that it has two price tags: what you pay to take it home and what you pay for the energy and the water it uses. ENERGY STAR compliant models use 10-50% less energy and water compared to the standard models. A compliant washer uses 33% less energy and 50% less water over the life of the washer saving enough money to pay for the matching dryer. A compliant dehumidifier uses 10-20% less energy than a standard model; a compliant dishwasher uses 33% less energy than a standard model; a compliant refrigerator or and freezer uses 50% less energy than one made before 1993; a compliant air conditioner uses 10% less energy than a standard model; and a room air cleaner uses 35% less than the standard models. By reducing energy consumption with ENERGY STAR qualified appliances customers save money by using less, helping to reduce greenhouse gas emissions and help in the fight against climate change.

Many of the District customers now call before making an appliance purchase to make sure the models they are interested in qualify for rebates.

A customer purchasing an ENERGY STAR compliant refrigerator, freezer, or clothes washer will receive an incentive of 10% not to exceed \$75. A customer purchasing an ENERGY STAR compliant dishwasher or air purifier will receive \$50; an ENERGY STAR air conditioner will receive \$25; an ENERGY STAR dehumidifier will receive \$20.

ENERGY STAR Windows/Skylights and Doors Incentive: \$6000

The District would like to fund this line item at \$6000 in 2010. The funds for this line were depleted in August of 2009.

When a customer purchases ENERGY STAR compliant windows and doors and sky lights for the northern area, they will realize energy savings in lower energy use. These windows and doors also help reduce heat loss in winter and offer protection from the summer sun, and reduce condensation and interior fading. ENERGY STAR qualified windows, doors and skylights keep your home cooler in the summer and warmer in the winter.

The District proposes to lower the incentives from \$25 to \$15 per window, up to a maximum of ten windows per customer and lower the incentive for a door from \$50 to \$40 per door, allowing one door per customer. To qualify all windows and doors must meet energy efficiency standards of a U-factor of .35 or lower. This would allow more people to take advantage of the incentives in 2010; additionally customers are eligible for a residential tax credit of 30% up to \$1500 on their income taxes if they purchase windows with a U-factor of .30 or lower.

** On February 17, 2009, President Obama signed the Stimulus Bill "The American Recovery and Reinvestment Act of 2009" which significantly changed the energy efficiency tax credits. These changes apply to products that were placed in service in 2009 and have been extended to 2010 as well. The tax credits have been increased from 10% to 30%. The maximum tax credit has been increased from \$500 to \$1500. The \$200 cap on windows has been removed, but the requirement for windows after June 1, 2009 has been increased significantly to a maximum U-Factor of .30. More information on the tax credits can be viewed at www.energystar.gov.

ENERGY STAR Heating System Incentives: \$6000

The District would like to fund this program for heating system replacement \$6000 in 2010. The demand for this program continues to be very strong. The District has issued 19 rebates totaling \$6450, in 2009.

With the price of fuel to heat a home today, many homeowners are replacing their older systems with ENERGY STAR compliant gas and oil boilers/furnaces and making every drop of fuel count. Although these products are expensive to purchase up front, the cost difference are paid back over time through lower energy bills.

The ENERGY STAR compliant oil and gas furnaces have annual fuel utilization efficiency (AFUE) ratings of 83% and 90%, or higher, making them up to 15% more efficient than standard models.

ENERGY STAR qualified boilers have annual utilization efficiency (AFUE) rating of 85% or greater. Whether the fuel is gas or oil, they use about 6%

less energy than a standard boiler, they achieve greater efficiency with improved features like electronic ignition that eliminates the need to have a pilot light burning all the time; new combustion technologies that extract more heat from the same amount of fuel; and sealed combustion that uses outside air to fuel the burner, reducing drafts and improving safety.

The district would like to reduce the incentive to 10%, not to exceed \$250 in 2010. This would allow more customers to take advantage of this program; additionally customers can take advantage of a tax credit of 30% of the cost up to \$1500 on their income taxes.

ENERGY STAR Thermostats/Lighting Fixtures: \$1,000

The District would like to fund this program at the same level in 2010. We would like to continue the fifty percent rebate on lighting fixtures and programmable thermostats. The District has processed rebates totaling \$380 through October of 2009.

Programmable thermostats automatically adjust your home's temperature settings, which allow you to save energy while you sleep and when you are away from your home. These units save energy by offering four convenient, pre-programmed temperature settings that allow you to scale back on heating or cooling of your home. Many homeowners work outside of the home during the day and have different schedules on the weekend, these programmable thermostats allow you to scale back on the heat and cooling during these periods of time and save up to an average of \$150 per year. The return on the investment is usually within one year. When you leave for a weekend or on a vacation by pushing the hold button on an energy saving temperature you can realize even more savings.

ENERGY STAR qualified lighting fixtures use one-quarter less energy than traditional lighting. They distribute light more efficiently and more evenly than the standard fixture. They come in hundreds of decorative styles including portable fixtures, like table, desk and floor lamps, and hard-wired fixtures options like front porch, dining room, kitchen ceiling and under-cabinet, hallway ceiling and wall bathroom vanity fixtures and ceiling fan lighting fixtures. If a customer replaced five of their most frequently used light fixtures in their home with ENERGY STAR qualified models, they could save up to \$65 each year in energy cost.

The incentive will remain at fifty percent, with a cap of \$50.

Home Office Equipment/Home Electronics: \$2400

This program has had an increase in activity again this year, so the District would like keep the same funding as approved in the July reallocation. The

incentives for this line item will remain at twenty five percent of the cost, not to exceed \$50. The District has processed \$2400 in rebates, depleting the funds for this line item in October of 2009.

ENERGY STAR compliant office equipment such as computers, monitors and imaging equipment like printers and copiers, help to eliminate waste through special energy efficient designs. They use less electricity and when they are not in use enter into a low-power mode. The specifications for many office products continue to change making it more difficult to earn the ENERGY STAR label. The products now use as much as sixty percent less electricity than standard equipment. With these new specifications the results will be the reduction of greenhouse gas emission equal to about seven million cars. The products that fall under office equipment are: computers, copiers, fax machines, digital duplicators, external power adapters, notebook computers/tablet PC's, mailing machines, monitors, printers, scanners, all in ones, and water coolers, computer servers.

ENERGY STAR compliant home electronics use as much as sixty percent less energy. Even when these electronics are off they use power for features like clock displays and remote controls. The average home has roughly two TVs, three telephones and a DVD player. Approximately ten percent of a household's power use is devoted to TV-related activities. There are about 275 million TV's currently in use in the U.S., consuming over 50 billion kWh of energy each year. ENERGY STAR qualified TV's use thirty percent less energy than a standard model. New standards will become effective in May of 2010 that will ensure that ENERGY STAR qualified TV's are viewed with an on mode power consumption levels that allow a consumer to realize a savings by curbing the energy associated with downloading program guide data.

The products that fall under home electronics are battery charging systems, digital-to-analog converter boxes, cordless phones, combination units, DVD products, external power adapters, home audio, televisions and set-top boxes.

Incentives for Electric Heat Conversion/ Geothermal Systems: \$100

Although the District has no firm commitments for this line item, we would like to continue to keep the line item open because of the potential savings. Pascoag had several customers that converted from electric heat to oil heat in the past. The District has many other electric heat customers that may decide at a future date to convert.

The geothermal heat pumps are similar to ordinary heat pumps, but they use the ground instead of the outside air to provide heating, air conditioning and hot water. By using the earth's natural heat they are among the most efficient and comfortable heating and cooling technologies currently available. They use about thirty percent less energy than a standard heat pump, they are

quieter than a conventional system. Therefore the District would to keep this line open should there be any future request. Geothermal heat pumps also qualify for tax credits that are not subject to the \$1500 maximum cap.

New Construction Rebates: \$4160

The District has not processed any rebates through October of 2009. Harrisville Village LLC and Mill Pond Village are proceeding with the construction of new units which should increase the activity before the end of 2009.

This line item is an excellent way to encourage the contractors to upgrade to ENERGY STAR compliant windows, doors, skylights, heating systems, appliances, programmable thermostats, lighting fixtures, and central air conditioning. Since the current building code in the town of Burrillville does not require the contractors to install Energy Star compliant products, The District feels this program is a great way to encourage energy efficiency in the construction process and to reduce the demand for electricity from these new housing developments. The rebate for windows and doors will be reduced from \$25 per window to \$15 and from \$50 per door to \$40.

The budget of \$4160 will allow us to process ten rebates with a cap of \$520 per unit /home in 2010:

ENERGY STAR Boiler/Furnace	\$250
ENERGY STAR Windows/Sky Lights, limit of 10 @ \$15	\$150
ENERGY STAR Doors, limit of 2 @ \$40	\$80
ENERGY STAR Appliances at \$50 each	\$50
ENERGY STAR Thermostats/Lighting Fixtures	\$20
Central Air Conditioning	\$200

Central Air Conditioning: \$400

The District has processed two rebates in 2009. This past summer was much cooler than normal and may account for the lack of interest in central air conditioning rebates. The District would like to fund this line item as was approved in the July reallocation of \$400 in 2010; this would allow us to do two rebates.

About one-seventh of all the electricity in the US is used to air condition buildings. ENERGY STAR qualified central air conditioners have a higher

seasonal efficiency rating (SEER) than standard models, which makes them fourteen percent more efficient than standard models. For a customer to qualify for this program they must purchase a central air conditioner with a SEER of 14 or greater, EER of 11.5.

The incentive will remain at ten percent, not to exceed \$200.

Change a Light Campaign: \$500

The ENERGY STAR Light Campaign is a national challenge to encourage every American to help change the world, one light – one energy saving step – at a time. The District became a pledge driver in 2008 and has invited our residential electric customers to take a pledge to do their part to save energy and help reduce the risk of global climate change by replacing at least one light in their homes with an ENERGY STAR qualified one (CFL). In 2009 eight of Pascoag Utility District residential customers have taken the challenge, and replaced all of their incandescent bulbs with CFL light bulbs, helping to reduce the greenhouse by 65,941 pounds. This small change will save 36724 kWh over the life time of the bulbs, an estimated savings of \$5266. Please see Schedule G for Pascoag Utility Districts 2009-2010 participating pledges.

The District purchased CFL's in 2009 with DSM funds and continues to sell the bulbs with an instant rebate of 50%. This continues to be very popular with our customers, so we would like to purchase more light bulbs in 2010 to sell for half price when our current supply is depleted.

The ENERGY STAR label on lighting means you are getting a product that is superior in energy efficiency. ENERGY STAR qualified compact fluorescent light bulbs (CFLs) use seventy-five percent less energy than incandescent bulbs and last six to ten times longer.

The District proposes a rebate of fifty percent of the cost of the light bulbs with a cap of \$50 per customer. They will then be asked to take the pledge on line at:

http://www.energystar.gov/index.cfm?fuseaction=globalwarming.showPledge&cpd_id=1809, so we can continue to track the total pledges for Pascoag Utility District.

Energy Conservation Calendars: \$3680

Last year the District purchased one-thousand five hundred energy conservation calendars. These calendars were produced by Energy Savers and features energy saving tips each month. It shows the customer what to look for when purchasing ENERGY STAR compliant products, and was a great way to advertise our programs, since the calendars also featured our 2009 programs, and rebates amounts on the inside page. The District proposes a

decrease the number of calendars to 1,000 in 2010. Calendars are always a huge success with the customers, and these will remind customers to conserve with each passing month. The total budget requested for this line item is \$3680.

Commercial and Industrial Programs

ENERGY STAR Incentive – Office Equipment/Electronics: \$500

This programs activity increased in 2009; the District issued nine incentive totaling \$404 through October of 2009. The District promoted this program at the Open House in October and is hoping for increased activity. The District would like to continue this program at the same level of funding.

The office equipment and electronics have the same savings are mentioned in the Home Office Equipment/Home Electronics program. The incentive will remain at twenty-five percent of the cost, with a cap not to exceed \$50.

Industrial and Commercial Projects 2009:

2009 Burrillville High School Gym Lighting Project: \$12,040

The Burrillville High School Gym lighting retrofit lighting project was completed by Eastland Electric in February of 2009. The school department qualified for a 60% rebate totaling \$12,040.

2009 Burrillville Town Hall Lighting Projects: \$5531

The Town Hall contracted with RISE and completed the following retrofit lighting Project with a 60% rebate each:

Parks and Receptions Office:	\$612
Legion Hall:	\$232
Burrillville Town Hall:	\$3276
Beckwith-Bruckshaw Memorial Lodge:	\$1420

2010 Lighting Projects:

As mentioned in the Highlights the District is proposing to reduce the lighting project rebate from 60% to 50% on retrofit projects and from 40% to 30% on new lighting projects starting in 2010. This would allow the District too rebate more projects.

The Bridido's IGA Store in Pascoag has completed an energy audit by RISE Engineering and has expressed interest in proceeding with a retrofit lighting project in 2010. The project would qualify for a rebate of 50% for a total of \$10367.

G S Inc. has approached the District with an HVAC project. They would like to install two wall mount inverter heat pumps. These heat pumps would qualify for a rebate of \$525.

Consultation fees: \$1,000

National Grid and RISE continue to provide verification of savings on the commercial and industrial projects on an as needed basis. This line item will remain at \$1000.

ENERGY STAR Commercial Appliances: \$700

Although the District has not had any request for ENERGY STAR commercial appliance, we are very hopeful that our commercial customers will take advantage of this program in the future. The District would like to keep the line item open for ENERGY STAR commercial appliances. The District has several restaurants as well as nursing homes that may benefit from these incentives. The following commercial appliances would qualify:

Commercial Dishwashers—ones that earn the ENERGY STAR on average are twenty-five percent more energy efficient and twenty-five percent more water efficient than standard models.

Commercial Fryers- ones that earn the ENERGY STAR are up to twenty-five percent more energy efficient than standard models. They also offer shorter cook times and higher production rates through advanced burner and heat exchanger designs.

Commercial Ice Machines that earn the ENERGY STAR are on average fifteen percent more efficient and ten percent more water efficient than standard models.

Commercial Hot Food Holding Cabinets that have earned the ENERGY STAR are sixty percent more efficient than standard models. Models that meet the requirements incorporate better insulation, reducing heat loss, and - may also offer additional energy saving devices such as magnetic door gaskets, auto-door closures, or dutch doors.

Commercial Griddles- that earn the ENERGY STAR are about ten percent more energy-efficient than standard models. A qualified grill can save 2270kWh annually.

Commercial Ovens- That earn the ENERGY STAR are twenty percent more energy-efficient than standard models. These ovens can save 1870 kWh annually.

Commercial Refrigerators & Freezers- the new ENERGY STAR qualifications become effective on January 1, 2010. The refrigerators that meet these new specifications will be thirty percent more energy-efficient than a standard option because they are designed with components such as ECM evaporator and condenser fan motors, hot gas anti-sweat heaters, or high-efficiency compressors that will reduce energy consumption.

Commercial Steam Cookers also known as compartment steamers that meet the ENERGY STAR qualifications are up to fifty percent more energy-efficient than standard models. They can save 6,270 kWh annually.

The District proposes a rebate of ten percent with a cap of \$350 per appliance; this will allow a maximum of two rebates in 2010.

Committed Funds 2010- Lighting Projects: \$12325

The District would like to fund this line item at \$12325 in order to accommodate unidentified and identified projects. Often, businesses will approach the District after the file date, and ask to be considered for a rebate on a project. This line item gives the District a source of funds to work from, so we do not miss out on an opportunity to work with our business customers on energy efficiency projects.

In 2009 The District was able to accommodate the Town Garage, when their project was not completed in 2008. This allows us to be proactive and have the ability to work with our customers when they are ready to go forward with a project. The Town Hall contracted with RISE and completed the Town Garage's retrofit lighting project and received a 60% rebate that totaled \$4015 in 2009.

The District has identified four business that are interested in receiving energy audits for possible rebates in 2010; Tanner Hill Inc, Wallum Lake Rod and Gun Club, and GLS Auto. The audits for these projects will be performed by RISE Engineering. The Burrillville High School has also expressed an interest in doing a retrofit lighting project in the Phys Ed Gym in 2010.

Community Christmas LED Lights: \$0

The District created a line item called "Community Christmas LED Lighting". The Harrisville Fire District has approached the District inquiring about replacing their old incandescent Christmas lights with newer LED Christmas Lights. As of October 2009 we have not received any request for LED Christmas lights so the District would like to discontinue this line item in 2010.

Administrative/Ad/ Education

Administrative Expenses: \$20,000

The District would like to fund this line item at the same level as last year, which is \$20,000.

The funds will be used to pay for staff time, schools and seminars related to DSM, and reimbursement of mileage when employees use their private vehicles for DSM related activities.

Pascoag has two Customer Service Representatives who devote many hours to the DSM programs by working with the customers, taking the application for rebates on the various programs and answering questions over the phone and in person. The Senior Customer Service Supervisor spends many hours researching the compliance of the various rebates that are submitted, reconciling the DSM programs, and updating existing programs as well as creating new programs for next year and requesting reallocation of funds. In addition, the General Manager, and the Assistant General Managers, work with the commercial and industrial customers on various C & I projects and perform site visits.

Follow-Up to Successful Programs: \$743

The District is requesting a line item to allow some flexibility in transferring funds up to ten percent to other program with a high customer demand. Any transfer would only be done with the Divisions approval.

Education/Outreach Program: \$7,500

The District worked with Soleil Communication in 2009 to update its website (www.pud-ri.org) with the current DSM programs and rebate application. The web site allows customers to go on line and view the available DSM programs, it also allows them to download rebate forms. The feedback has been very positive from the customers who have used the site. Many of the rebate forms that we have processed this year have been downloaded from the internet.

Some funds were used to print additional copies of the activity book on safety and conservation; these were given to over four hundred children at Austin T Levy School during Public Power Week. Funds were also used to rent equipment, purchase food, supplies, and for staff time at the Districts annual Open House in October.

The District would like to use some of these funds to update the website in 2010, process bill inserts promoting the various program, and to run advertisements in the local paper.

The District would also like to use some of these funds to host the annual Open House in 2010. The event continues to grow and is a great tool in reaching out to the customer base. It allows us to show the customers what the latest conservation measures are and how they can benefit with the various rebates that are offered through the Demand Side Management Program.

BHS Project: \$8,000

The District is requesting a budget of \$8,000 for the 2010 conservation project with the Burrillville High School. The Partnership is now in its ninth year and continues to be very educational for the students, our customers, and the District staff. In 2009 Mr. Aldrich worked with the Tech Club students and the engineering class creating packaging to transport burnt out, unbroken, compact fluorescent lamps (CFL's). The District continues to partner with Home Depot to dispose of and recycle the CFL's.

This partnership has helped to keep the CFL bulbs out of the landfill and prevent the mercury they contain from contaminating the soil and the ground water. The packaging that the BHS students created is helping the District to safely transport the CFL bulbs. The District has collected and recycled over 150 bulbs.

The video created by the video production class was featured at the Open House, and the students also presented the video to the staff at Pascoag Utility and several members of the RIPUC, at the BHS cookout held in May.

The District purchased three iMac computers with these funds that will be used to edit footage when the students create video on the smart grid/metering project. The equipment currently in use is severely outdated and under powered. These new computers will provide a professional video that Pascoag can use in its customer outreach and workshops.

The District would like to continue this relationship in 2010, with the Tech Club students and the engineering class; the students challenge this year is to research the smart grid, smart meters, smart appliances, distribution generation and other sustainable options. The District would like to start an outreach program to the customer base stressing the importance of energy efficiency and energy awareness.

Community Projects: \$8000

The District participated in many events though out the year in 2009. The District staff attended the Family Fair in May and the Energy Expo in September. The District promoted the DSM programs by giving away conservation materials, night lights, and refrigerator thermostats at the Family Fair and the Open House.

The District would like to fund this line item in 2010 at \$8000. We plan to purchase fulfillment materials, such as night lights, refrigerator thermostats, refrigerator brushes and other conservation materials which will be given away at the various events.

Pascoag Utility District
Demand Side Management Programs - 2009

Estimated carry over from 2008	Approved Budget
Estimated sales for 2009	\$ 1,387.00
Net 2009 budget	\$ 105,000.00
	\$ 106,387.00

	Approved Budget 2009	Expenses	Balance
Residential Program			
DR0901 ENE Residential Conservation (ENE)	\$ 2,040	\$ 1,750	\$ 290
DR0902 Home Energy Audits with Incentives	\$ 2,400	\$ 1,330	\$ 1,070
DR0903 Energy Star Appliance Rebates	\$ 6,600	\$ 6,600	-
DR0904 Energy Efficient Windows/Doors	\$ 6,100	\$ 6,100	-
DR0905 Heating System Incentive	\$ 6,450	\$ 6,450	-
DR0906 Energy Star Thermostats/Lighting fixtures	\$ 1,000	\$ 379	\$ 621
DR0907 Home Office Equipment/Home Electronics	\$ 2,400	\$ 2,400	-
DR0908 Electric Heat Conversion/Geothermal System:	\$ 100	\$ -	\$ 100
DR0909 New Construction	\$ 6,200	\$ -	\$ 6,200
DR0910 Central Air Conditioner Incentive	\$ 600	\$ 400	\$ 200
DR0911 Change a Light Campaign	\$ 500	\$ 54	\$ 446
DR0912 Energy Conservation Calendars	\$ 4,440	\$ 4,440	-
Net Residential	\$ 38,830	\$ 29,903	\$ 8,927
Industrial/Commercial			
DI0901 Energy Star Incentive - Office Equipment	\$ 500	\$ 404	\$ 96
DI0902 Burrville High School Gym- retrofit	\$ 12,040	\$ 12,039	\$ 1
DI0903 Parks and Recreation Office	\$ 612	\$ 612	-
DI0904 Legion Hall	\$ 233	\$ 232	\$ 1
DI0905 Town Hall	\$ 3,276	\$ 3,276	-
DI0906 Breckwith Lodge	\$ 1,420	\$ 1,420	-
DI0907 Consultation Fees	\$ -	\$ -	\$ -
DI0908 Energy Star Commercial Appliances	\$ 1,050	\$ -	\$ 1,050
DI0909 Committed Funds- Lighting Projects- Town Garage	\$ 4,016	\$ 4,015	\$ 1
DI0910 Community Christmas LED Lights	\$ 1,000	\$ -	\$ 1,000
Net Industrial/Commercial	\$ 24,147	\$ 21,998	\$ 2,149
Administrative/Ad/Education			
DA0901 Administrative	\$ 20,000	\$ 11,044	\$ 8,956
DA0902 Funds for Follow-up to Successful Programs	\$ -	\$ -	\$ -
DA0903 Outreach/Education	\$ 7,500	\$ 6,526	\$ 974
DA0904 BHS Project	\$ 8,000	\$ 4,485	\$ 3,515
DA0905 Community Projects	\$ 7,910	\$ 7,910	\$ -
Net Administrative/Ad/Education	\$ 43,410	\$ 29,965	\$ 13,445
Total suggested DSM 2009 Budget	\$ 106,387	\$ 81,865	\$ 24,521

Pascoag Utility District
Demand Side Management Programs - 2009

Estimated carry over from 2008	Approved Budget
Estimated sales for 2009	\$ 1,387.00
Net 2008 budget	\$ 106,000.00
	\$ 106,387.00

	Approved Budget 2009	Expenses
Residential Program		
DR0901 ENE Residential Conservation (ENE)	\$ 2,040	\$ 1,750
DR0902 Home Energy Audits with Incentives	\$ 2,400	\$ 1,330
DR0903 Energy Star Appliance Rebates	\$ 6,600	\$ 6,600
DR0904 Energy Efficient Windows/Doors	\$ 6,100	\$ 6,100
DR0905 Heating System Incentive	\$ 6,450	\$ 6,450
DR0906 Energy Star Thermostats/Lighting fixtures	\$ 1,000	\$ 379
DR0907 Home Office Equipment/Home Electronics	\$ 2,400	\$ 2,400
DR0908 Electric Heat Conversion/Geothermal System:	\$ 100	\$ -
DR0909 New Construction	\$ 6,200	\$ -
DR0910 Central Air Conditioner Incentive	\$ 600	\$ 400
DR0911 Change a Light Campaign	\$ 500	\$ 54
DR0912 Energy Conservation Calendars	\$ 4,440	\$ 4,440
Net Residential	\$ 38,830	\$ 29,903
Industrial/Commercial		
DI0901 Energy Star Incentive - Office Equipment	\$ 500	\$ 404
DI0902 Burrville High School Gym- retrofit	\$ 12,040	\$ 12,039
DI0903 Parks and Recreation Office	\$ 612	\$ 612
DI0904 Legion Hall	\$ 233	\$ 232
DI0905 Town Hall	\$ 3,276	\$ 3,276
DI0906 Breckwith Lodge	\$ 1,420	\$ 1,420
DI0907 Consultation Fees	\$ -	\$ -
DI0908 Energy Star Commercial Appliances	\$ 1,050	\$ -
DI0909 Committed Funds- Lighting Projects- Town Garage	\$ 4,016	\$ 4,015
DI0910 Community Christmas LED Lights	\$ 1,000	\$ -
Net Industrial/Commercial	\$ 24,147	\$ 21,998
Administrative/Ad/Education		
DA0901 Administrative	\$ 20,000	\$ 11,044
DA0902 Funds for Follow-up to Successful Programs	\$ -	\$ -
DA0903 Outreach/Education	\$ 7,500	\$ 6,526
DA0904 BHS Project	\$ 8,000	\$ 4,485
DA0905 Community Projects	\$ 7,910	\$ 7,910
Net Administrative/Ad/Education	\$ 43,410	\$ 29,965
Total suggested DSM 2009 Budget	\$ 106,387	\$ 81,866

Calculations of Energy Savings for Energy Star Incentives(1)

<u>Appliance</u>	<u>Specifications</u>	<u>Monthly hours Operation</u>	<u>Monthly kwhr use</u>	<u>Annual kwhr use</u>	<u>Units w/ Incentives</u>	<u>Total annual</u>
Air Conditioner	6000 BTU 500 watts	165	83 74	990 892	Standard EnergyStar	9 882
Clothes Washer	Large Capacity	23	12 11	144 132	Standard EnergyStar	34 408
Dish washer	13,000 Watts	24	31 25	372 300	Standard EnergyStar	20 1440
Refrigerator	6-15 years old 17CF, frost free	245	147 103	1764 1236	Standard EnergyStar	0 36
Dehumidifer	Large capacity 650 Watts	340	221 166	2652 1992	Standard EnergyStar	4 2640
Total Average kwhrs Savings						5,370

(1) From www.pud-ri.org "Energy Calculator"

2009 Appliance savings

Project Name	Estimated Load Savings (watts)	Estimated Lighting usage Savings (kWh)	Estimated Bill Savings
BHS GYM	2151 watts	4449 kWh	\$ 622.83
Parks & Recreation	683 watts	1184 kWh	\$ 165.76
Legion Hall	625 watts	429 kWh	\$ 60.06
Town HALL	4131 watts	8728 kWh	\$ 1,221.92
Breckwith Lodge	659 watts	1368 kWh	\$ 190.82
Highway Garage	1700 watts	3563 kWh	\$ 498.82
total	9949	19721	\$ 2,760.21

**Pascoag Utility District- Electric Department ("Department")
Demand Side Management Charge**

The following provisions will be apply to reflect charges collected under the Demand Side Management Program, pursuant to "An Act Relating to the Utility Restructuring Act of 1996", #96-H 8124 Substitute B, Section 39-2-1.2(b).

The District proposes to include a charge of 2.3 mills per kilowatt-hour delivered to fund a demand side management program and renewable energy resources. The allocation of this revenue between demand side management programs and renewable energy resources shall be determined by the Commission.

The District will submit semi-annual reports to the Commission documenting funds collected and expended. In the event that revenue collected over or under anticipated revenue, the Department shall apply to the Commission for an annual "true-up".

Approval Issued:

Requested Effective Date: January 1, 1998

Approval Date: March 20, 1998

Pascoag Utility District's 3rd Annual Open House!

October 3rd, 2009
11:00-2:00 PM

Come visit us for all the fun you remember last year and more!!! There will be conservation, recycling and renewable energy vendors!!! Energy saving tips!! Free children's activities! Free food! The Burrillville Farmer's market will be in attendance! Bring a canned good that will go to a local food pantry and get a free apple crisp sundae! **Enter to win \$50, \$25, or \$15 credit toward your electric bill!!!!** Look for more details in next week's Bargain Buyer.

Don't miss out! Save the date!!!

Pascoag Utility District to host open house

BURRILLVILLE – In recognition of Public Power Week for 2009, the Pascoag Utility District, RI's only not-for-profit Public Power Utility, will be holding an Open House on Saturday, Oct. 3 from 11 a.m. to 2 p.m. at the District office at 253 Pascoag Main Street in Pascoag, RI.

The 1st 200 people bringing a non-perishable food item, which will be donated to the local food pantry, will receive a ticket for a free apple crisp sundae.

In addition to the apple crisp sundaes, there will be free children's activities. Children's activities include pumpkin painting, face painting, games and bucket truck rides. Free cotton candy and popcorn will also be available.

Adults can find out how to save money on the cost of energy and visit onsite vendors.

The Burrillville Farmer's Market will also be in attendance.

Customers can enter to win a \$50, \$25 or \$15 credit towards their electric bills.

Attendees can also view PUD's 5,000 watt Solar Power installation.



Pascoag Utility District

[« Return to Change the World Home](#)

[View Pledges](#)

[See all Participating Organizations](#)

TAKE THE ENERGY STAR!

A non-profit electric company.

Announcements for Participating Organizations

Campaign materials are available to help you engage your community: Find out how you can [Spread the Word](#).

2009-2010 Participation Highlights

Goal for the Year: 242,080 lbs of ghgs
 Current Total: 65,941 lbs of ghgs
 Percent to Goal: 27%

2009-2010 Savings Breakdown

Greenhouse Gas Emissions: 65,941 lbs
 Individuals: 8
 Dollars: \$5,266
 kWh: 36,724
 BTUs: 81,055,715

Questions about your Goal?

If you have questions about setting or changing your goal, please email changetheworld@energystar.gov.

[See Pledges by /](#)

Archived Campaign Success

2008-2009

2007-2008

2006-2007

Greenhouse Gas Emissions (lbs.) 72,750
 Dollars \$6,124
 kWh 42,032



Power House

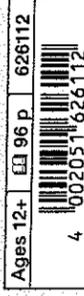
Sustainable Living in the 21st Century

Power House provides an engaging introduction to renewable energy sources and sustainable living, while teaching basic concepts in physical science. Through building a model house and 20 other energy-related devices, you will learn about energy from the sun, wind, plants, and electrochemical reactions. You will find out how to transform, store, and use these forms of energy.

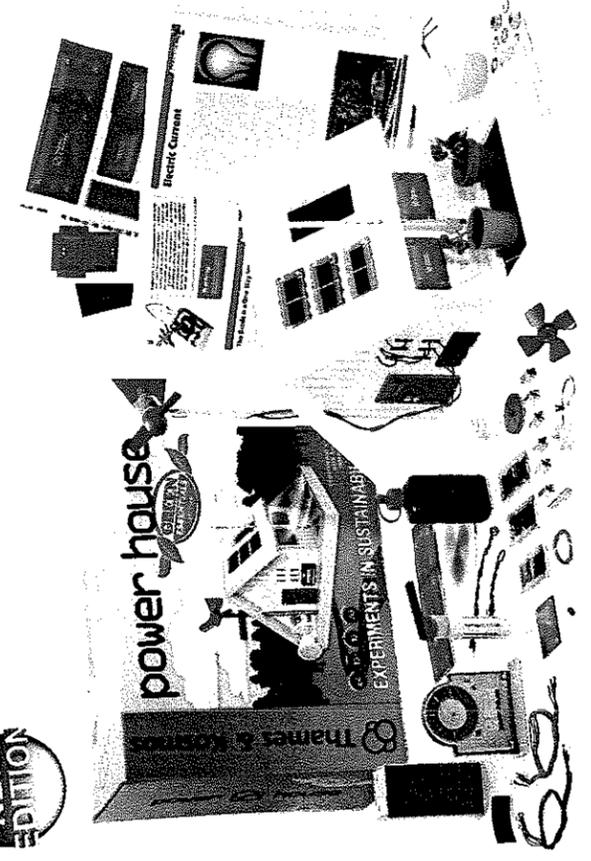
This kit creatively integrates physical science lessons with the story of a group of young adults learning to live sustainably on a remote island. To survive, they must learn how to harness the power of the sun and the wind, and other natural resources. As you read their story, you work on the same

projects alongside them. The full-color, 96-page manual guides your experiments and activities. Ages 12 and up.

- build a model house and 20 other energy-related devices, including a windmill, solar water heater, solar oven, solar grid, greenhouse, refrigerator, and air conditioner
- grow plants and preserve food
- collect the sun's rays to heat water
- cook a potato with sunlight
- make fresh water from salt water
- learn how the heat of evaporation provides cooling



Ages 12+ | 96 p. | 626112



Power House

Green Essentials Edition

To live sustainably, we must use Earth's resources at a rate at which they can be replenished, and thus provide for future generations to live as we have. In this kit, you can learn about alternative energy and sustainable living by conducting experiments and building energy-related models. Thirty of the best experiments and the ten most important building projects from the original Power House kit are presented in this new Green Essentials Edition.

The ten building projects include: the power house itself, a greenhouse, a solar cell array, a passive solar collector, a solar oven, an air conditioner, a refrigerator, a hydro-meter, a lemon battery, and a wind power generator.

Experiment with the heating, cooling, and insulation of the house and greenhouse. Test passive solar collection methods with a solar collector. Assemble a solar power array to explore active solar power with photovoltaics. Build a model refrigerator and air conditioner to learn about heat transfer. Experiment with a lemon battery to learn about power storage. Set up a wind turbine to generate electricity from the wind.

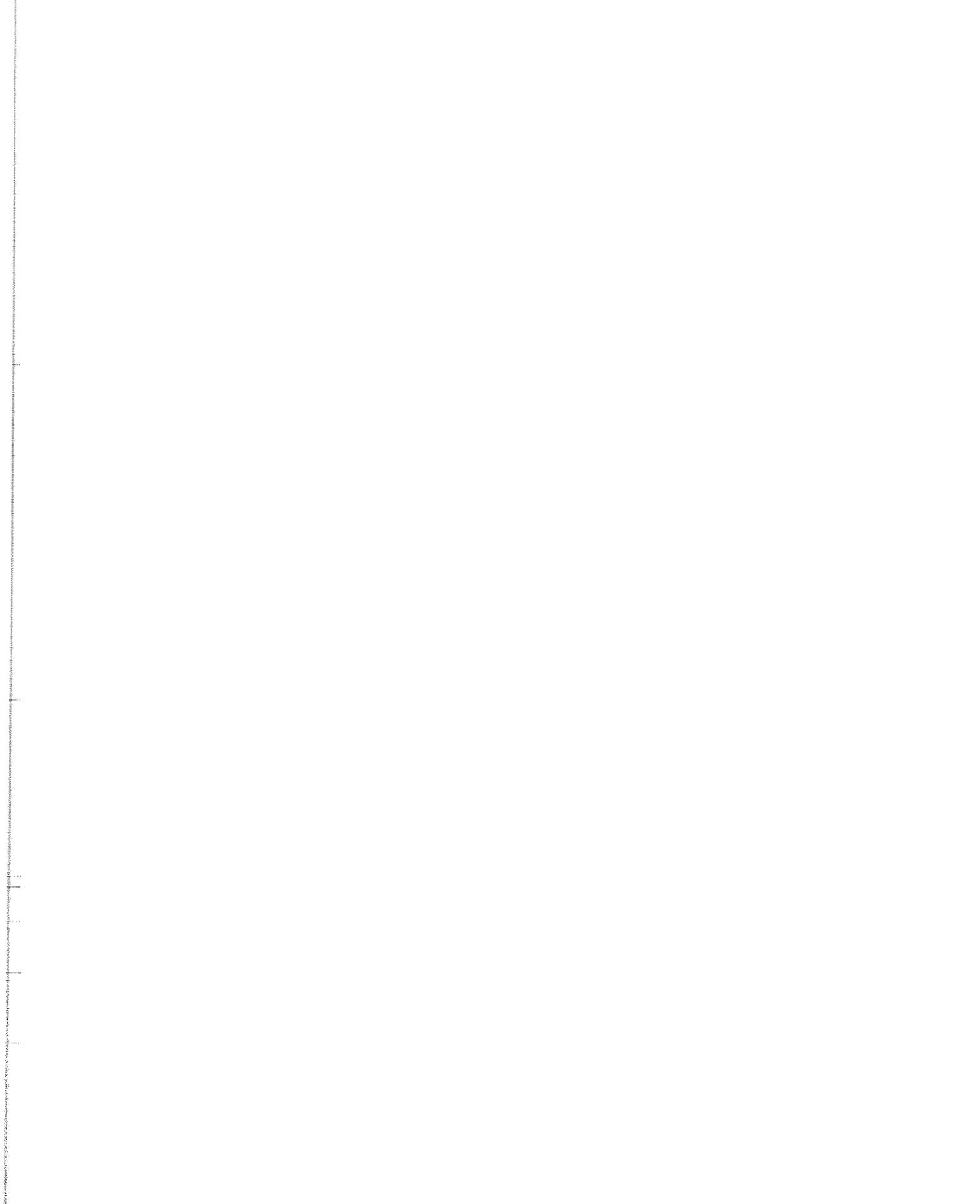
As you perform the experiments, you will read the diary entries of a group of young explorers who are learning to live a sustainable existence on an island. To survive, they must implement real-world versions of the projects you are doing in the kit. Ages 10 and up.

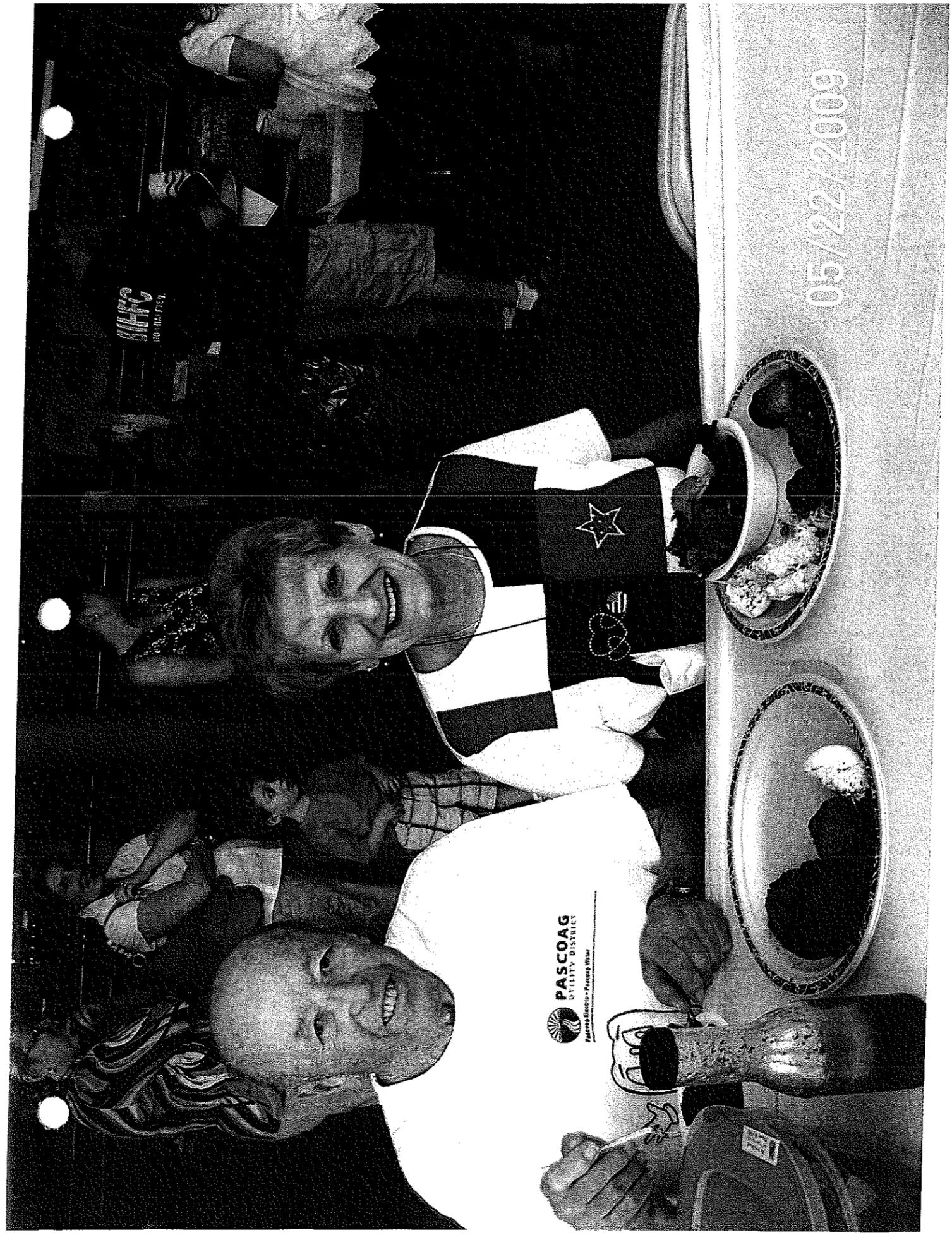


Ages 10+ | 64 p. | 626114



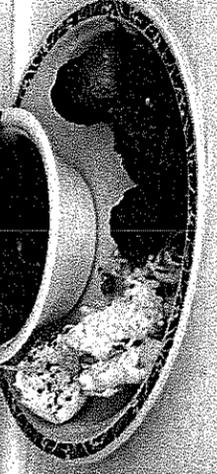
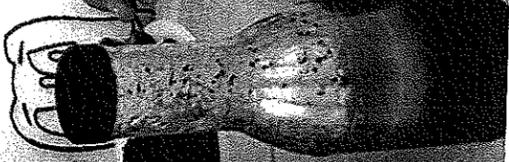
Burrillville High School Cookout





05/22/2009

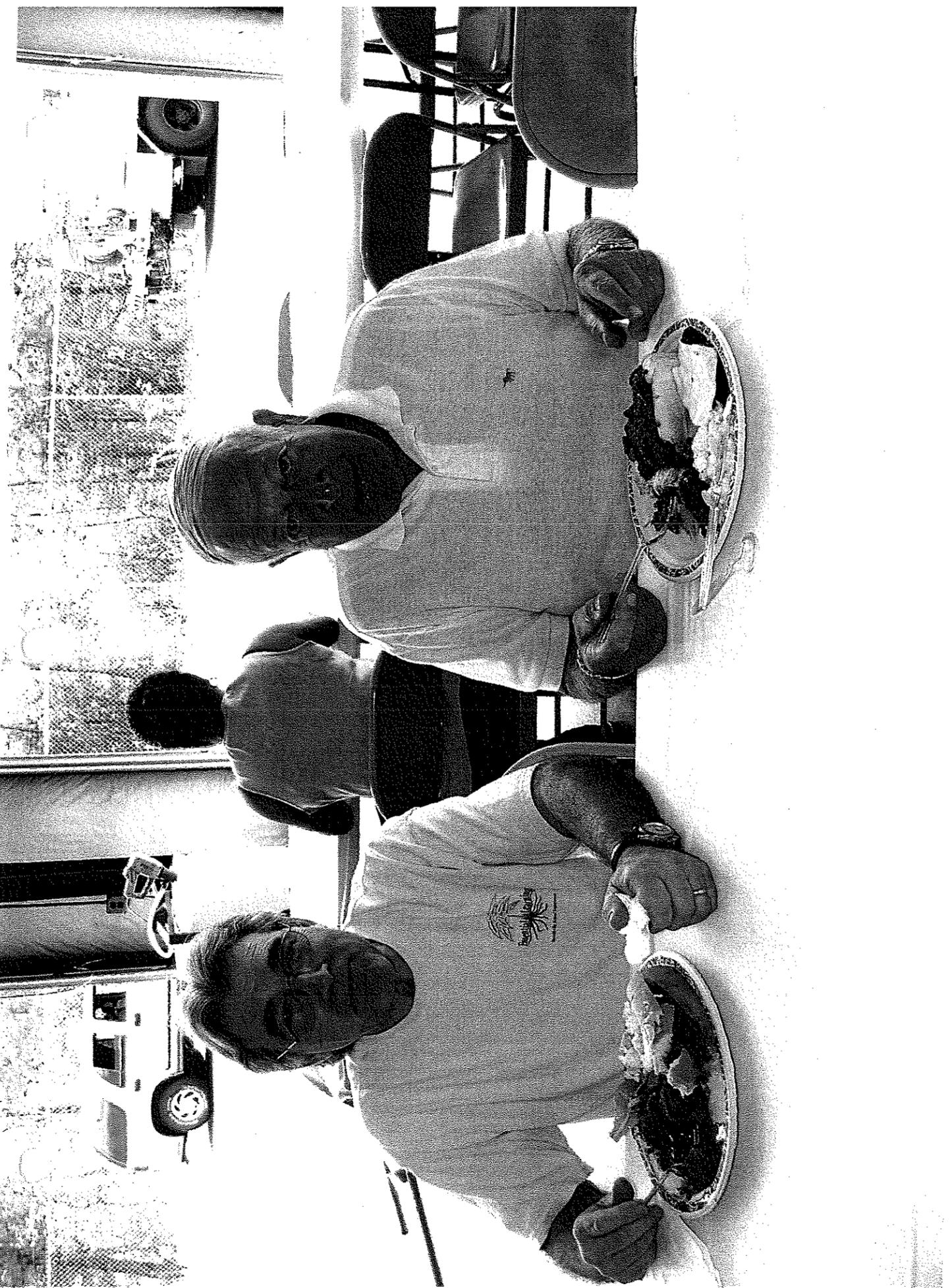
PASCOAG
UTILITY DISTRICT
Pascoag - Pascoag Water



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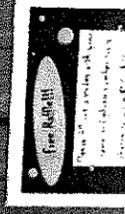
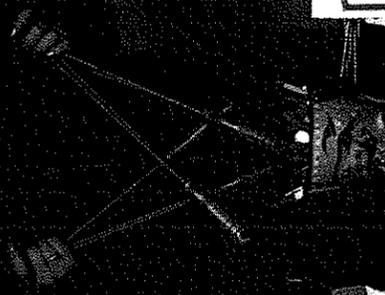




Open House



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PASCOAG
UTILITY DISTRICT

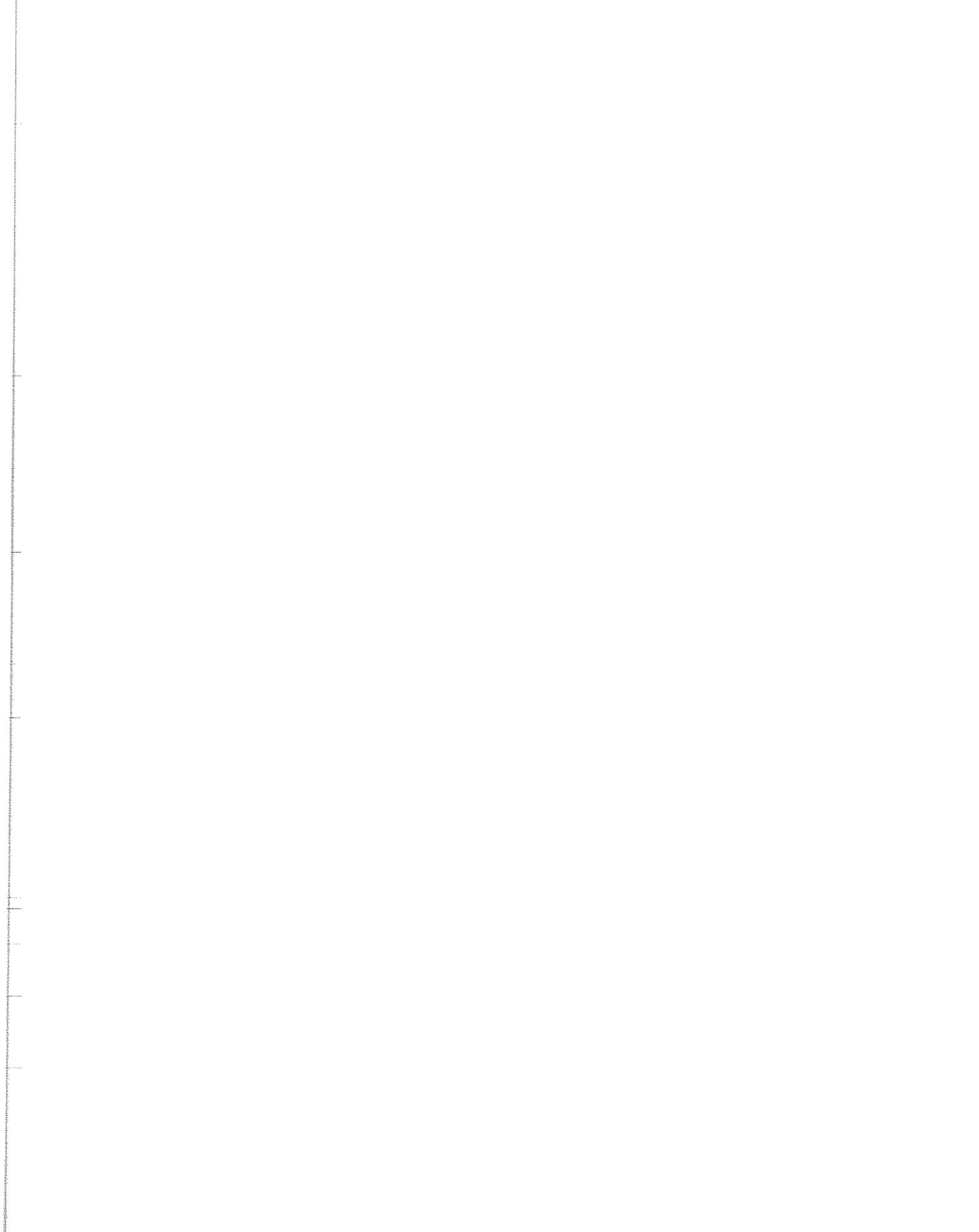
Register For

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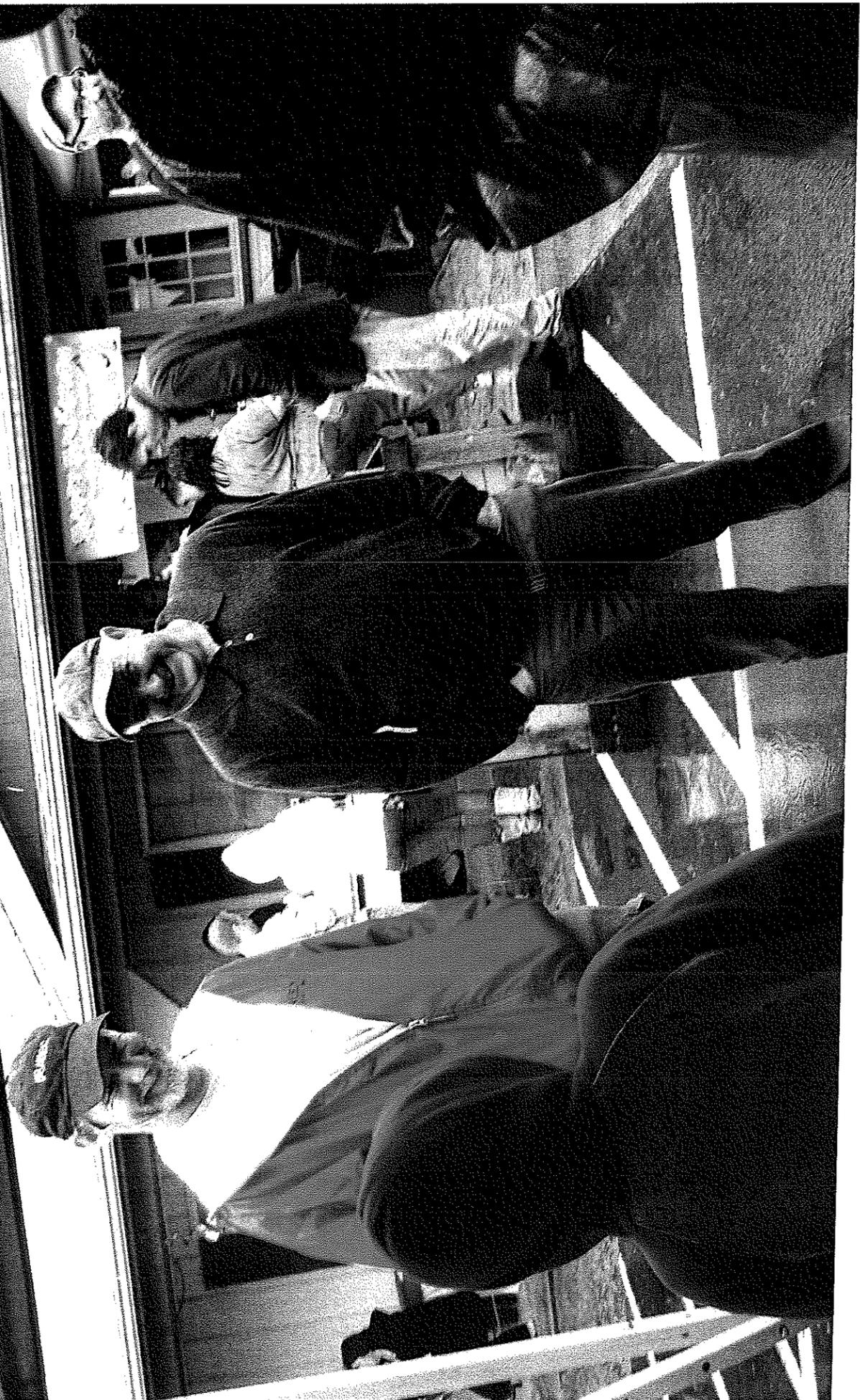






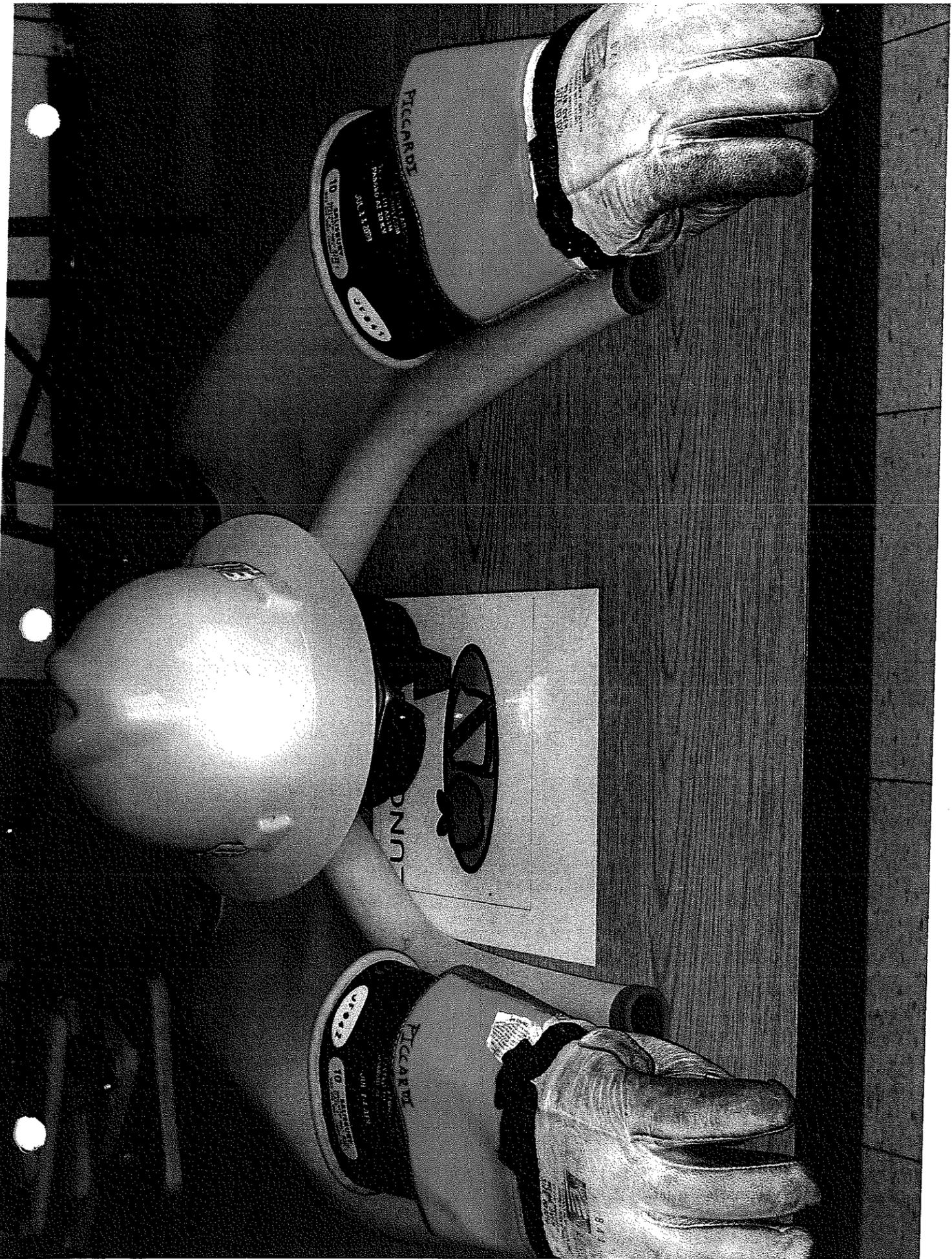


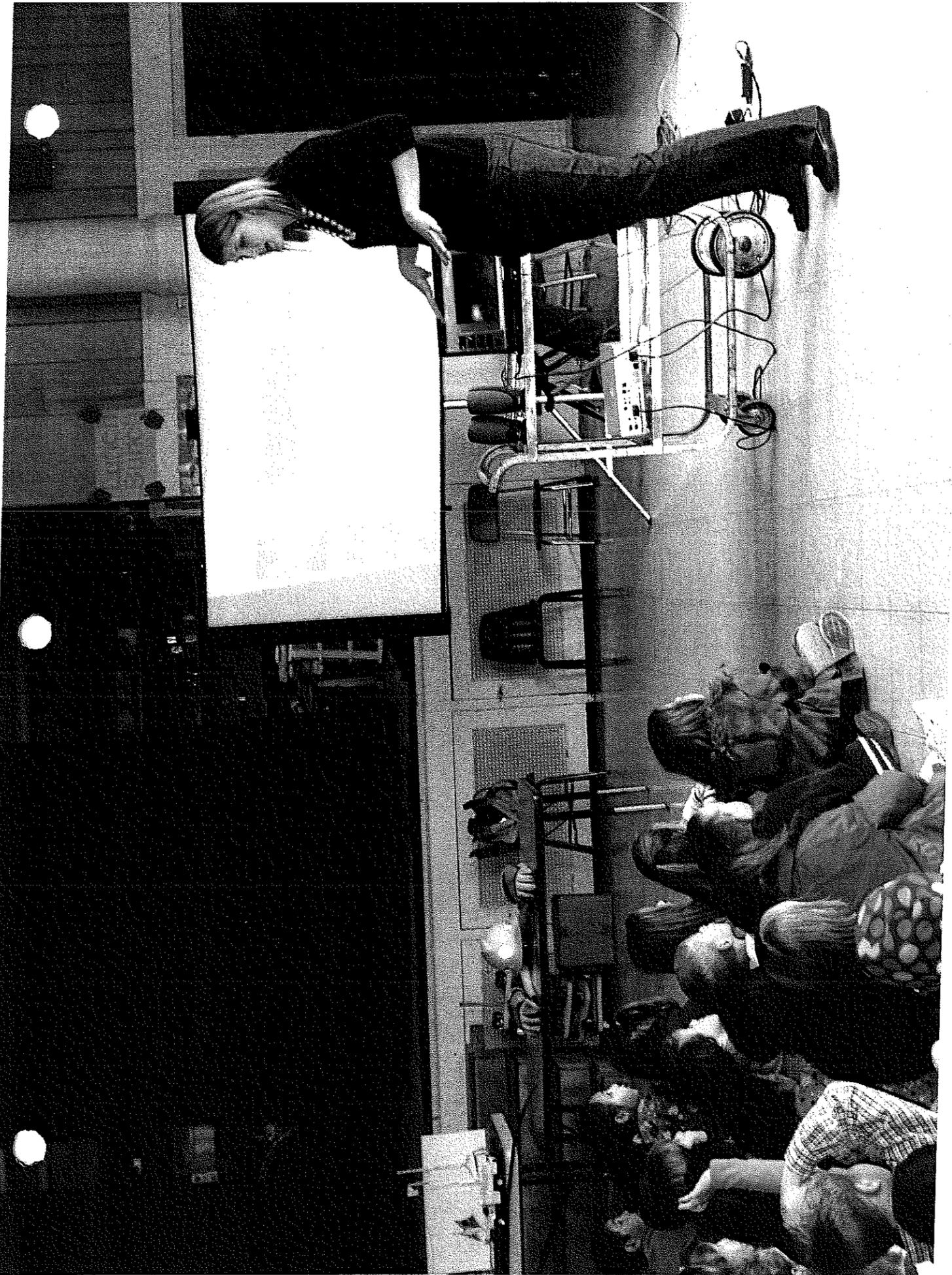






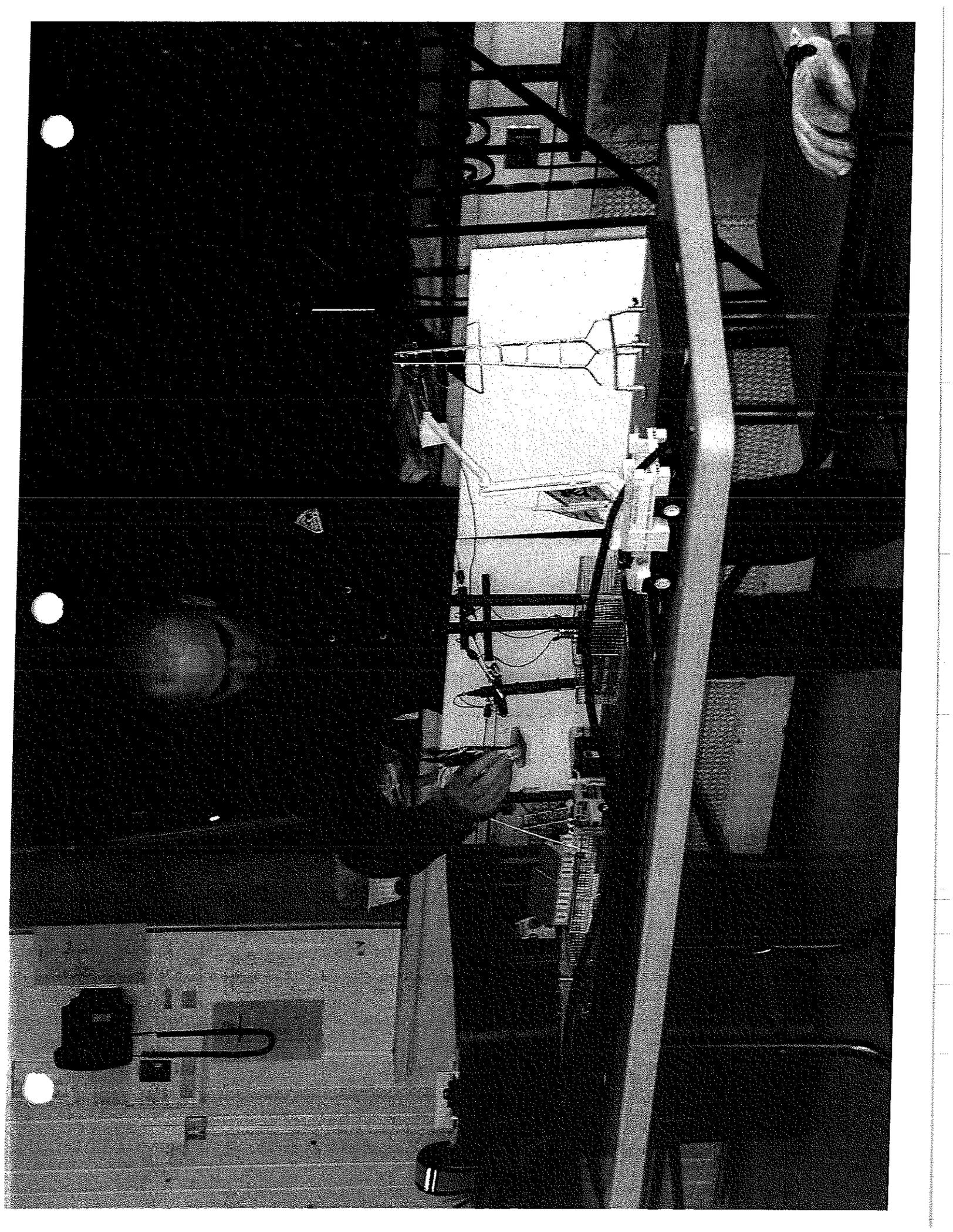
Public Power Week with the A T Levy School



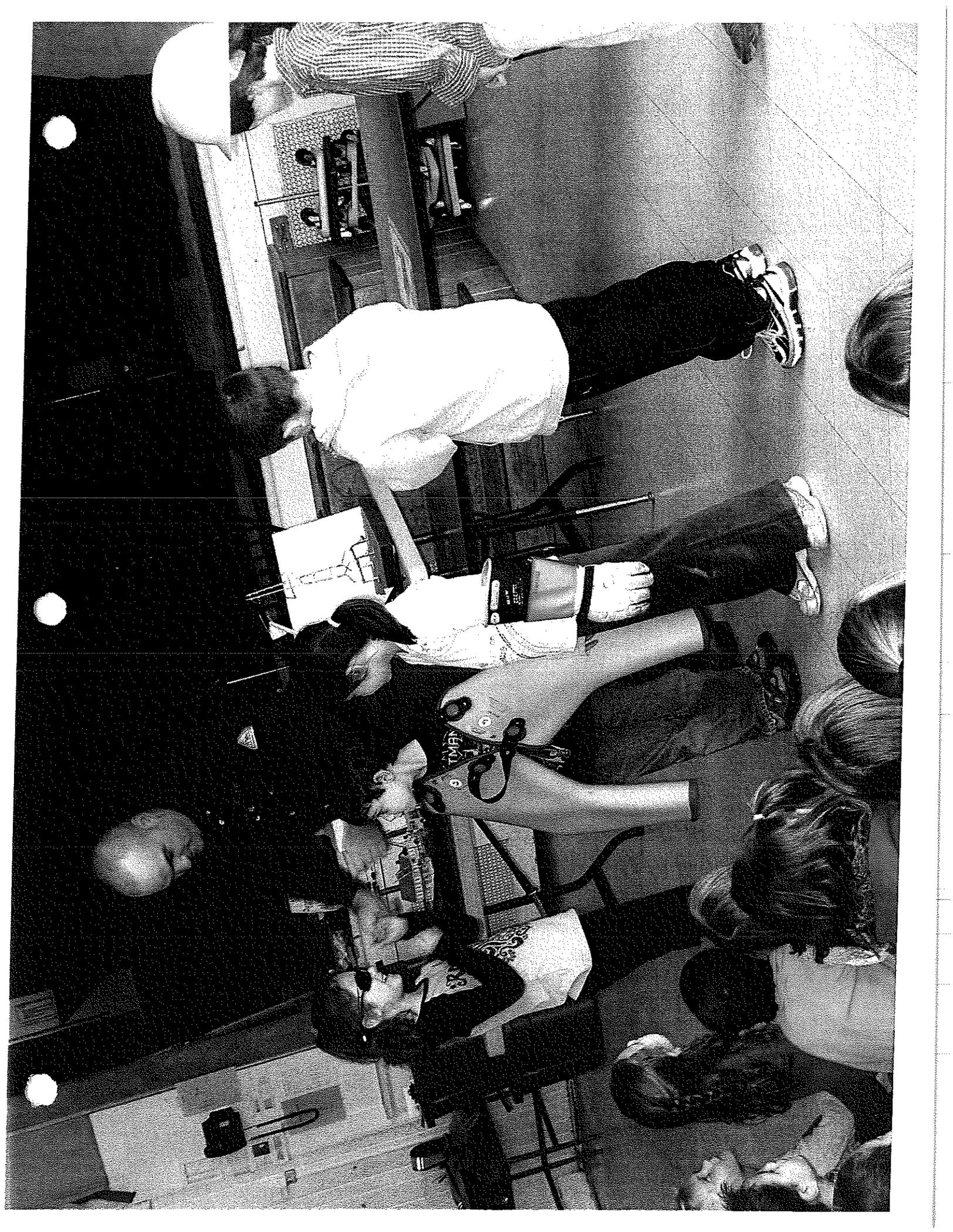




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Tips on Weatherstripping

Warmed or air-conditioned air mixes with outside air through gaps in your home's thermal envelope—exterior walls, windows, doors, the roof, and the floors. These kinds of air leaks can waste large amounts of energy. Weatherstripping and caulking is an effective way to rid your home of costly drafts, saving you energy and money.

Most experts agree that the time and money invested in weatherstripping and caulking windows and doors can pay off faster than almost any other home improvement you can make, even when your home is well insulated. This tip sheet will focus on weatherstripping in particular.

Besides keeping out moisture, wind, and hot or cold air, weatherstripping will block entry of dust and noise, resulting in a cleaner, quieter home. Both weatherstripping and caulking are economical and, usually do-it-yourself jobs.

Loose fitting windows should be weatherstripped to keep warm air from escaping and make you feel more comfortable. The most vulnerable windows are swinging windows, and double hung windows. Some effective types of weatherstripping are spring-plastic, metal-backed vinyl and adhesive-backed foam.

Weatherstripping around exterior doors can be checked with a flashlight. From outside the closed door, move the flashlight slowly around the door edge. A "helper" inside the house can see the light shining in where weatherstripping is needed.

To determine how much weatherstripping is needed, add the perimeters of all windows and doors to be weatherstripped. Then add about 5-10 percent to accommodate any waste. Also take into consideration that weatherstripping comes in varying depths and widths.

Weatherstripping supplies and techniques range from simple to the technical. Consult the instructions on the weatherstripping package. Here are a few basic guidelines:

- ✓ *Weatherstripping should be applied to clean, dry surfaces in temperatures above 20 degrees F.*
- ✓ *Measure the area to be weatherstripped twice before you cut anything.*
- ✓ *Apply weatherstripping snugly against both surfaces. The material should compress when the window or door is shut.*

Brought to you by Pascoag Utility District



PASCOAG
UTILITY DISTRICT

For more information on Energy Conservation, please call the Energy Hotline at: 1-888-772-424

SPRING INTO ACTION. . . .
TO SAVE ENERGY AND ENERGY DOLLARS IN THE HOME

Spring is a great time to embark on a year-round plan to reduce energy use and household expenses. A realistic approach is to keep it simple to begin with - and go from there. Here are some places to start:

- ***BE A DRAFT DETECTIVE*** – check for any winter damage to window caulking and sealing. Left unchecked, the tiny cracks and invisible gaps around doors, windows, and baseboards are a big source of waste ***all year round***.
- Make sure to change the direction of airflow on ceiling fans. In the winter, let fans push warm air toward the floor and, in summer, switch the direction and draw air upward, cooling each room and ensuring constant airflow.
- When dust and pet hair build up on refrigerator condenser coils, the motor works harder and uses more electricity. As part of an annual spring-cleaning routine, coils should be cleaned so that air can circulate freely.
- With hot weather on the way, make sure any air conditioners have been serviced and are ready to go, and always remember to wash or replace any filters.
- Raising the setting on an air conditioner by just a couple of degrees is an effective way to save on energy costs without really noticing a change in temperature. Did you know...your air conditioner uses 3% more energy for each degree set below 75 degrees?
- Get rid of hot air. Use an exhaust fan to blow hot air out of the kitchen while cooking. The savings realized on cooling costs far outweigh the electricity used by the fan.
- Consider taking lukewarm showers and baths to reduce the amount of heat and humidity in the air.

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For more information on Energy Conservation, please call the toll-free Energy Hotline at 1-888-772-4242

Refrigerators & Freezers – Tips and Facts

Two major appliances with a voracious appetite for power are the refrigerator and the freezer. Refrigerators are power pigs, scarfing up to 7% of your electric bill and freezers are among the most significant energy-consuming appliances in the average home. In most cases only space conditioning (heating and cooling) and water heating use more energy. While most people are aware of the importance of saving energy on heating, cooling, and water heating, the energy consumed by refrigerators and freezers is often overlooked.

How much is that 6-Pack Costing you? If you have a second refrigerator in your garage or basement it's probably costing more than you think...as much as \$100 per year! That's a stiff price to pay to keep a few beverages cool.

The temperature of the air around a refrigerator significantly affects its energy usage. *Don't* keep a refrigerator in the garage, near heat sources such as ranges, stoves or dishwashers or in direct sunlight. A refrigerator or freezer located in a garage or area where temperatures reach 90° F or higher can use a significant amount of energy – as much as 45-50% more. Give a refrigerator space and allow for good air circulation around the coils.

Likewise, if ambient air temperature drops below about 40 degrees Fahrenheit, the thermostat on the refrigerator may not run its cooling and defrost cycles for the appropriate amount of time. And refrigerators are not designed to heat their interiors, so placing a refrigerator in an environment that is below freezing may result in the freezing of your foods.

As with refrigerators, the garage is a bad place to keep a freezer because they use a significant amount of energy in rooms with temperatures at or above 90° F. Because of less thermal spillage and better insulation, chest freezers do use less energy than upright models.

Refrigerator Maintenance - Because these appliances run every day, small steps taken to improve their efficiency can leap into giant savings over the course of a year.

- **Prolong the life of the refrigerator gasket sealing by wiping it regularly with warm water. Once the gasket starts deteriorating, you're in for a big waste of energy and money. Test the quality of the seal by closing the door on a sheet of paper. The sheet should be firmly anchored. Repeat the test along the length of the gasket. Adjust the door hinges or replace the gasket if the seal is bad.**
- **A dusty condenser coil reduces a refrigerator's efficiency and shortens it's life. Clean it several times a year with a coil brush or a soft bristle attachment on a canister-style vacuum cleaner. Unplug the refrigerator first. Cleaning coils regularly will help your refrigerator run more smoothly, which means lower energy usage.**
- **Always follow the manufacturer's recommendations, and disconnect the power before performing ANY maintenance on your refrigerator.**

Facts to Consider - A ten year-old refrigerator or freezer can cost considerably more to operate than a new energy-efficient model of the same size. Improvements in the design of compressors and cooling coils, better insulation, tighter door seals, and other design improvements all contribute to the higher efficiencies of newer

Energy Star qualified refrigerators and freezers provide energy savings without sacrificing the features you want. When considering the purchase of a new refrigerator or freezer, look for the **Energy Star** label. It looks like this:



The **Energy Star** label is designed to help consumers identify appliances that have been rated by the federal government as the most energy-efficient products on the market. Appliances with an **Energy Star** label exceed existing federal efficiency standards, typically by 13% to 20%, and as much as 110% for some appliances.

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KEEP YOUR COOL And Save Money Too!

The summer months mean baseball, lemonade, pool parties and usually *much* warmer temperatures..... Does the thought of keeping cool have you counting your pennies?

Be an energy smart consumer by getting the most from the energy you use. Here are some things you can do this time of year to save both energy and money. Most of these can be implemented for little or no cost. Remember..... energy smart doesn't necessarily mean expensive.

Since heating and cooling costs make up the single largest portion of your home energy bill, decreasing your heating and cooling needs should be your top priority for reducing energy bills.

Setting the air conditioner just a few degrees higher, saves both energy and \$\$'s

You can save 6 to 8 percent of cooling costs for each degree set above 78, and still be comfortable.

Clean your air filters, fresh air intakes, supply vents, and return grills. Dust and dirt cause your air conditioning unit to work harder and use more energy

Keep lamps or TV's away from the air conditioner thermostat. The heat they generate will cause your air conditioner to operate longer, running up bills unnecessarily.

Reduce the cooling load by effectively shading east and west windows.

Reducing air leaks in your home could save 10% or more on your utility bills

A few steps you can take range from changing air filters to sealing ducts. Inadequate insulation and air leakage are the leading causes of energy waste in most homes. Insulation prevents this waste by stopping the transfer of heat. In the winter, it helps keep the heat inside, and in the summer, it helps keep the heat outside, which reduces the number of times your heating or cooling systems need to cycle on.....saving you energy and money.

Turn off the juice when not in use.....and reduce wasted electricity

Computers, computer peripherals (printers, modems, scanners, etc.), home entertainment products (stereo, DVD player, televisions, etc.), and small appliances draw an idle electrical current even after they have been turned off. Some devices still draw the same amount of power even when turned off. To alleviate this, the device needs to be physically unplugged from the wall. Using a power strip allows multiple devices to be plugged into one unit. Rather than having to unplug multiple devices, you only need to unplug (and plug back in) the power strip in this case making it a much easier process that you are more likely to remember.

Use your appliances wisely and save

Save energy by putting dishes in the dishwasher during the day and turning it on only once in the evening when it is cooler. Do full loads when you run washers, dryers, and dishwashers.

Between 80 and 85 percent of the energy used to wash clothes comes from heating the water. Using warm or cool water instead of hot will save money and energy and get clothes just as clean.

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For more information call the Energy New England Hotline at: 1-888-772-4242

Heating Season....

Consumers can do more than hope for mild weather this winter as they turn on their heating systems. They can take actions that could help reduce their bills and offset soaring energy prices. The American Council for an Energy-Efficient Economy (ACEEE) offers 5 practical steps for consumers to take right now at little or no cost:

- ***Change furnace filters. Monthly replacement of furnace filters in forced-air heating systems can save as much as 5% on heating bills.***
- ***Insulate windows with coverings. Close blinds and drapes at night to keep cold air out and open them in the day to let warm sun in. Cover windows with insulating shades or plastic sheeting to cut down heat transfer from inside to outside.***
- ***Install a programmable thermostat to set different temperatures during the night and day. Program it to warm up the house in the morning, keep it cooler during the day while residents are away, and warm it up again in the evening until bedtime. Consumers can save about 2% on heating bills for every degree thermostats are turned down.***
- ***Seal doors with draft-reducing weatherstripping and door sweeps to cut down on spaces where cold air can enter the house.***
- ***Lower the water heater's thermostat to the lowest level that meets your hot water needs, typically to 120°F (midway between the "low" and "medium" setting on many units). Each 10-degree reduction could help you save 3% to 5% on water heating costs.***

In the face of a long heating season, consumers can use smart energy practices and energy-efficiency technologies to save significantly on their monthly energy bills, and contribute to energy conservation.

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For more information call the Energy New England Hotline at: 1-888-772-4242

How to be "Fridge" Frugal

Refrigerators use seven percent of the nation's electricity, the equivalent of more than 50 percent of the power generated by all U.S. nuclear power plants. Chances are your refrigerator is using more electricity than any other appliance in the kitchen and accounts for about 25% of your electric bill. Here are some ways to help you use it efficiently:

Refrigerator Coils

The condenser coils help it dissipate heat from the food compartment. When dust, dirt or pet hair collect on the coils, they don't work as efficiently and the refrigerator uses more energy to power the motor. This could cause the refrigerator to run continuously or it may stop completely as a result of an overheated compressor. Keep condenser coils clean and unobstructed for maximum energy savings.

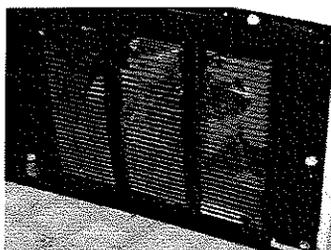
At least once every six months carefully clean the condenser coils of your refrigerator using either a long handled brush or the crevice tool attachment of the vacuum cleaner. The coils are located either behind or beneath the refrigerator.

IMPORTANT: Before cleaning the condenser coils, unplug the refrigerator to avoid a shock hazard **AND** remember to plug in and turn on the refrigerator once you have finished.

To clean refrigerators with coils located underneath, remove the kick plate/grill at the floor on the front of the refrigerator by pulling on it firmly. Behind this grill dust covers the refrigerator coils, which extend back under the refrigerator. First use the

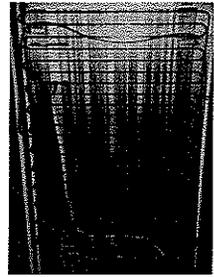


brush to loosen the dirt on the coils by rubbing it gently under the refrigerator and brushing back and forth until you can see the metal coils underneath the dirt. Using a vacuum cleaner attachment, vacuum up the resulting dust bunnies. Replace the grill when you're finished. Replacing the grill is usually easier if you open the refrigerator door so you can see the slots the grill fits into.



If you have coils under your refrigerator, don't forget to clean off the fan grill as well. This grill can be found behind the refrigerator. Slide the refrigerator out from the wall until you can squeeze in there with a vacuum cleaner attachment. Be careful not to scratch the floor under the refrigerator.

Some refrigerators have coils in the back. Slide the refrigerator carefully out from the wall until you can reach the coils. Clean them completely with the vacuum cleaner's dusting attachment, then slide the refrigerator back into place.



Refrigerator coils are fragile! Be careful when cleaning or moving the refrigerator not to dent or damage them. Don't use a sharp instrument that might puncture the coils. Refrigerators are heavy, never tip one forward or backward, and do not attempt to move a refrigerator without help.

Gaskets

Check the gasket (rubber seal) around the door for cracks and dried-on food. To test the seal: close the door on a sheet of paper and try to pull the paper out. If it slides out easily, cold air is escaping from the compartment. Adjust or replace the seal.

More is Better

A full refrigerator uses less energy than an empty one. For efficient chilling, keep your refrigerator and freezer as full as possible, and remove things stored on top of it.

Energy Star

Consider replacing that old refrigerator. A refrigerator made before 1993 could be costing \$140 a year in electricity. Even those refrigerators built between 1993 and 2001 cost about \$60 a year to run. A new *Energy Star* rated model runs on about \$20 worth of electricity. A new refrigerator will last for decades and could pay for itself in less than five years.

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For more information call the Energy New England Hotline at: 1-888-772-4242

ENERGY SAVING TIPS FOR USING HUMIDIFIERS AND DEHUMIDIFIERS

Typically humidifiers are run during colder months when various types of heating systems have a tendency to dry out the air in a home.

Dehumidifiers remove excess moisture from the air and are usually run during the warmer, more humid months. Basements are prime areas for dehumidifiers.

Here are a few ways to save energy and stay comfortable when using these appliances:

- Purchase a low wattage unit. If your comparing dehumidifiers with the same capacity, check the wattages on the nameplates. A lower wattage unit that does the same job is a better value.
- Look for a humidifier with adjustable humidistat to maintain desired humidity and set so the appliance does not run continuously.
- It's estimated that a 175-watt humidifier running 240 hrs. per month (approx. 8 hrs. per day) uses 42 Kwh per month. At a rate of .14 cents per Kwh, that equates to roughly \$5.88 per month to run the appliance.
- When using a dehumidifier adjust to lowest setting that still provides adequate dehumidification.
- Clean the unit. Dust or vacuum the dehumidifier at least once a year before you plug it in. If the unit is difficult to clean, check the owner's manual. Most portable humidifiers on the other hand, require cleaning or sanitizing on a very frequent and regular basis. Check owner's manual.
- Keep in mind that a 700-watt dehumidifier running 240 hrs. per month (approx. 8 hrs. per day) uses 168 Kwh per month. Based on .14 cents per Kwh, it costs approximately \$23.50 per month to run this appliance.
- Both humidifiers and dehumidifiers work best when air can circulate freely through the appliance. Place away from walls and bulky furniture.
- When shopping for appliances look for the Energy Star label. Energy Star appliances have been identified as being significantly more energy efficient than average comparable models

For more information call the Energy New England Hotline at: 1-888-772-4242



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ENERGY SAVING TIPS FOR AROUND THE HOUSE

Here is some helpful advice on how to conserve on the amount of electricity used in your home.

- ☑ Remember to turn off lights in that are not needed, for instance, in unused rooms.
- ☑ Replace incandescent light bulbs with new, energy efficient fluorescent lights. Compact fluorescent lights (CFL's) save energy, and last longer.
- ☑ When purchasing appliances, look for the Energy Star logo. The Energy Star is only awarded to appliances that significantly exceed the minimum national efficiency standards.
- ☑ Use your microwave oven in place of your range when possible. Microwave ovens reduce energy consumption and cook food in a fraction of the time.
- ☑ When you do use your oven, bake several dishes that can be cooked at the same temperature together in the oven.
- ☑ Regularly check your refrigerator or freezer door gasket for signs of deterioration.
- ☑ Every few months it's a good idea to vacuum or brush the cooling coils in the back of your refrigerator.
- ☑ Whenever possible, try cold-water washing when using your washing machine
- ☑ Wash a full load of laundry at a time, likewise dry full loads – but avoid overloading.
- ☑ Clean the lint screen in your dryer before every

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For more information, please call the Energy New England Hotline at: 888-772-4242

ENERGY SAVING TIPS FOR AIR CONDITIONING

Did you know.....

Air conditioners work on the same operating principles and basic components as your refrigerator?

Cooling your home with central air conditioning can use almost as much energy as heating your home?

Here are a few suggestions that can help you reduce the amount of energy used by your air conditioner, control your cooling costs and help the environment.

- When running the central air, set the thermostat as high as is comfortable. The minimum recommended temperature for energy efficiency is 78 degrees F. Each degree setting below 78 degrees F will increase energy consumption by approximately 8%.
- Shade windows that get direct sunlight in order to reduce radiant heat in the room while using air conditioning.
- Help to reduce the cooling load by deferring heat generating activities such as clothes washing, running the dishwasher, cooking on the stove or in the oven during the hottest part of the day.
- When cooling the home, keep the house closed tight during the daytime. Don't let in unwanted heat and humidity. If practical, ventilate at night either naturally or with fans.
- Professionally inspect, clean and tune central air conditioning unit in order to save energy and to help it last longer. Inquire about the proper maintenance schedule with a service technician.
- When shopping for a new central air conditioning unit, buy the correct size. A properly sized unit cools air and removes humidity more effectively, and costs less to operate.
- We hope you will consider Energy Star label central air conditioning when purchasing a new unit. Energy Star appliances have been identified as being significantly more energy efficient than average comparable models.

For more information call the Energy New England Hotline at: 1-888-772-4242



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PROJECT: DI0902-BHS gym retrofit

TYPE	CHK#	TRAN DT REF #	VOUCH#	VEND #	BUDGET	PROJECT-TO-DATE	DESCRIPTION	YEAR-TO-DATE	ENCUMBERED	ENCUMBERED	STATUS
AF	01-0000-214.24-20	02/19/2009	000168	216	0.00	12,039.30	DEMAND SIDE MANAGE	12,039.30	.00	.00	ACTIVE
							CPI High school gym	12,039.30	.00	.00	
							39 T5 lights	12,039.30	.00	.00	
							TRANSACTION TOTAL:	12,039.30	.00	.00	

PROJECT: DI0902 PROJECT TOTALS

CLASSIFICATION TOTALS:												
										LIABILITIES:		12,039.30
TRANSACTION TOTAL:												12,039.30
ESTIMATE COMPARISON:												.00
(ACTUAL) SUMMARY TOTAL:												.70
												12,039.30-

ELECTRIC DEPARTMENT
VENDOR # 216 BURRILLVILLE, TOWN OF

CHECK # 416009

INVOICE #	DESCRIPTION	DATE	AMOUNT
BURR SCHL DPT	CIP High School gym light	0219/2009	12,039.30

12,039.30

PASCOAG UTILITY DISTRICT
ELECTRIC DEPARTMENT
P.O. BOX 107
PASCOAG, RI 02859

FREEDOM BANK
GREENVILLE OFFICE
GREENVILLE, RI

416009

03/19/2009

CHECK NUMBER
416009

AMOUNT
\$***12,039.30

TWELVE THOUSAND THIRTY NINE AND 30/100 DOLLARS *****

NOT VALID AFTER 90 DAYS

Helen F. Moroney MP

TOWN OF BURRILLVILLE
105 HARRISVILLE MAIN STREET
HARRISVILLE RI 02830

PA
TO THE
ORDER
OF

⑈416009⑈ ⑆011501705⑆ 0000101966⑈

#5025

CIP

Invoice

Eastland Electric, Inc.
35 Moshassuck Rd.
Lincoln, RI 02865

DATE	INVOICE #
10/7/2008	8849

BILL TO

Burrillville School Department
Business Office
2300 Bronco Hwy.
Harrillville, RI 02830

Ref
Rebate
Town of Burrillville
Note CIP - School

44241749-532310

Job Name	Job Address
Contract	High School

ITEM	DATE OF SERVICE	AMOUNT
Services	As per contract dated 7/3/08 in the amount of \$20,065.50 to provide and install 39 T5 light fixtures as specified in contract. Job completed: 10/7/08 Eastland Electric, Inc. is requesting payment in full at this time. Final Inspection performed 2-19-09 Hail Bound <i>[Signature]</i> <i>[Signature]</i>	20,065.50
		20% Rebate = \$12039.30

Thank you for choosing Eastland Electric, Inc.

PHONE # (401) 334-1931
FAX # (401) 334-0322

Terms: Net 30

[Signature]

Total	\$20,065.50
Payments/Credits	\$0.00
Balance Due	\$20,065.50



Industrial Lighting Products

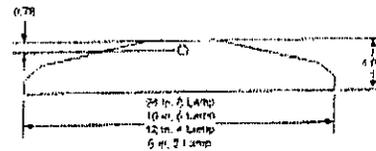
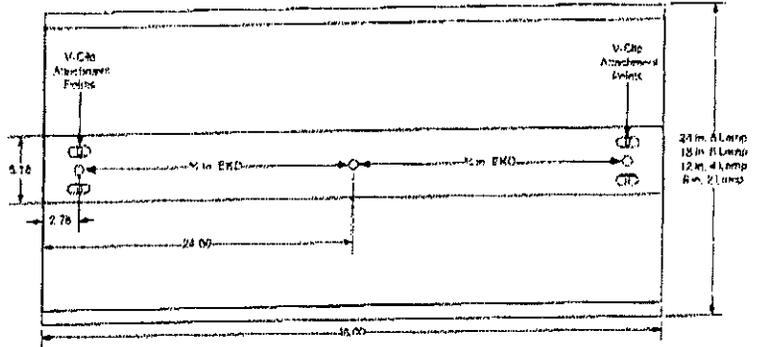
CATALOG NUMBER	
PROJECT NAME	TYPE
VOLTAGE	LAMPS

HIMALAYAN 2

T5HO & T8 High Bay

MOUNTING OPTIONS

- V-Clips for dual point chain or cable hanging
- Dual point pendant mount (KOs)
- Center pendant
 - 6 and 8 lamp fixture have 3/4in center hole for pendant or hook
 - 2 and 4 lamp fixture do not have center hole
 - Select extra ballast option to have balanced fixture around center hole
 - Select off-set ballast to have single ballast off-set from the middle to clear center hole
 - Mounting Kit will attach to all types
- Available Accessories
 - Mounting kit - Rigid box that attaches to fixture with a threaded nipple for more rigid center mount
 - Grippler - Includes 2 Grippler cable hangers
 - Swivel Bracket - Used at ceiling to attach pendant for self leveling



HS-4T5-UH

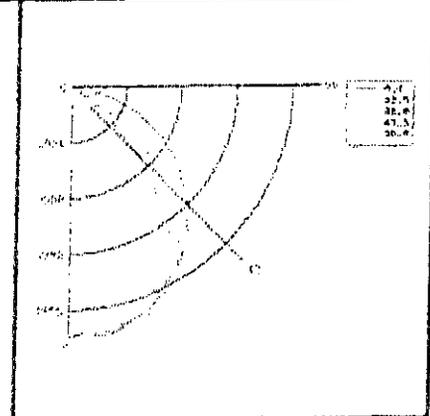
Coefficients of Utilization

Room Index	0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
	0.70	0.80	0.70	0.80	0.70	0.80	0.70	0.80	0.70	0.80	0.70	0.80	0.70	0.80	0.70	0.80	0.70	0.80
0	111	111	111	111	108	108	108	108	103	103	103	103	98	98	98	98	93	93
1	103	100	97	94	101	96	95	95	89	89	89	87	81	81	81	81	74	74
2	89	84	81	74	89	87	85	85	78	78	78	77	71	71	71	71	64	64
4	82	73	68	60	80	80	79	79	71	71	71	70	65	65	65	65	58	58
5	76	66	62	53	74	74	73	73	65	65	65	64	59	59	59	59	52	52
6	71	60	57	47	69	69	68	68	60	60	60	59	54	54	54	54	47	47
7	66	55	52	42	65	65	64	64	56	56	56	55	50	50	50	50	43	43
8	62	50	47	37	60	60	59	59	51	51	51	50	45	45	45	45	38	38
9	58	46	43	33	57	57	56	56	48	48	48	47	42	42	42	42	35	35
10	54	42	39	29	53	53	52	52	44	44	44	43	38	38	38	38	31	31

Luminaire Properties

Number of Lamps: 4
 Lumens Per Lamp: 5000
 Input Watts: 236
 Distribution: Down
 Symmetry: Quadrilateral
 Photometric Type: Type C
 Luminaire Shape: Rectangle
 Units: Feet
 Luminaire Dimensions:
 0-180 Axis: 3.0
 90-270 Axis: 1.1
 Height: 0.28

Candle Plot



Beam Lumens Summary

Beam	Lumens	% Lumens	% Fixture
0-90	7080	15	38
0-40	11700	25	60
0-00	17000	35	92
0-00	18500	40	100
90-120	0	0	0
90-180	0	0	0
90-180	0	0	0
0-180	16200	35	100



Industrial Lighting Products

CATALOG NUMBER	
PROJECT NAME	TYPE
VOLTAGE	LAMPS

SPECIFICATIONS

- Precision formed, pre-painted enclosure
 - .040 aluminum (HA)
 - .032 steel (HS)
- 95% reflective enhanced aluminum, roll formed reflectors
- Electronic ballast, program start, rated class P

HIMALAYAN 2 T5HO & T8 HIGH BAY



APPLICATIONS

- Warehouse
- Retail
- Distribution
- Manufacturing Plant
- Gymnasium
- Parking Garage



ORDERING GUIDE:

HS

2T5

UH

BB

SERIES

- HS - HIGH BAY STEEL
- HA - HIGH BAY ALUMINUM

LAMP TOTAL

- 2T5 - 2 F54
- 4T5 - 4 F54
- 6T5 - 6 F54
- 8T5 - 8 F54
- 2T8 - 2 F32
- 4T8 - 4 F32
- 6T8 - 6 F32
- 8T8 - 8 F32

BALLAST CONFIG

- UL - 120/277 T8 LBF
- UR - 120/277 T8 NBF
- UH - 120/277 T8 HBF
- UH - 120/277 T5HO
- 4H - 480V (T5)

OPTIONS

- BB - BATTERY BACKUP
- WC - 11 GA WIRE CAGE
- CA - ACRYLIC CLEAR LENS
- PC - POLYCARBONATE LENS
- PM - PRISMATIC LENS
- OS - OCCUPANCY SENSOR
- UP - UP LIGHT
- LJ - LAMPS INSTALLED
- CORD - SPEC LENGTH
- EX - EXTRA BALLAST
- OF - OFF-SET BALLAST

Eastland Electric, Inc.



Eastland Electric, Inc.
35 Moshassuck Rd.
Lincoln, RI 02865

Phone: (401) 334-1931
Fax: (401) 334-0322

Date: July 3, 2008

To: Burrillville School Dept.
Business Office
2300 Bronco Hwy.
Harrisville, RI 02830

Job: Lighting
Job location: Burrillville High School

Attn: Bob Richards
Phone: 568-1309
Fax: 568-1337

PROPOSAL

Eastland Electric, Inc. for the sum of \$20,065.50 will provide and install 39 light fixtures, 6 bulb T-5 fluorescent energy efficient types.

This price includes material, lift fee, hardware, and prevailing labor rate.

Breakdown: \$514.50 per fixture x 39 fixtures
\$299.00 fixture
\$180.00 labor
\$15.00 fixture whip and hardware
\$20.50 lift fee
\$514.50 Total

Please note: We will be using the existing light locations and existing switching means. If we can complete this quote for under the quoted price we will credit you the difference in the final bill.

Total Amount of Proposal: \$20,065.50

_____ (Signature)

_____ (Print name)

Authorized Representative of:

_____ (Date)

(If you choose to accept this proposal as a contract, please sign and return to Eastland Electric, Inc. by mail or fax so that we may schedule work accordingly. Thank you.
Please be advised, all invoices must be paid within 30 days of invoice date. All past due balances will incur a monthly service charge of 1 1/2 % plus any attorney fees if required.
Please note- if applicable: Our rates do not reflect prevailing rate. We do not provide lighting fixtures unless otherwise specified in proposal. We are not responsible for patching or painting holes. Clean up after each job will be done to the best of our ability. If you should have any questions regarding this proposal, please contact the office.)

Energy Initiative

Lighting - Systems & Controls

2007 Project Information Form for Rhode Island

This *Project Information Form* provides a template to collect project systems and equipment information and specifications. In addition, this form serves as a guide to lighting system and controls terms and identifies energy efficiency improvement products and incentives. Prior to the start of any installation of equipment or systems, call your **Business Services representative** to arrange a convenient time to perform an inspection of the existing equipment or systems. This inspection is required for all applications.

Customer Facility Information

Customer Facility Name: Burrillville School Dept. Date of Application: November 27, 2007
Burrillville High School Sq. Ft. Covered by Application: 8000sq.ft. (appr
 Contact Person: Bob Richards Federal ID Number: _____
 Street Address: 425 East Avenue Company Type:
 Incorporated Exempt Not Incorporated
 City: Harrisville State: RI Zip: 02830 Phone Number: 401-568-1365
 E-mail Address: _____ Fax Number: 401-568-1353
 Facility Description: Gym/Burrillville High School
 Customer of Record Information: LOC ID: _____ Account Number: _____ *Internal Use only*

Installation Contractor Information

Installation Performed By: * Customer Installation Contractor Project Expediter Other (Vendor)
Complete this section if installation is not by the customer
 Installation Company: Eastland Electric, Inc. Street Address: 35 Moshassuck Rd.
 Contact Person: Jim Miller City: Lincoln
 E-mail Address: ESTLNDELEC@AOL.COM State: RI Zip: 02865
 Phone Number: 401-334-1931
 * If contractor has not been selected, select Customer

Application Information

Application Funding Type: AAP Other *Internal Use only*
 Expected Completion Date: 12/31/07
 Proposed Incentive Recipient: Customer (Account Credit or Check) Installation Contractor** Project Expediter
 ** *Complete this section if Installation Contractor has been selected*
 Federal ID Number: _____ Company Type: Incorporated Exempt Not Incorporated

This Form Was Completed By:

Name: Kathy Macchioni
 Phone Number: 401-334-1931 E-mail Address: ESTLNDELEC@AOL.COM

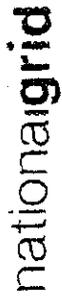
More Information

Phone: 1-800-787-1706

Internet: www.nationalgridus.com/narragansett

Energy Initiative Lighting Systems Inventory Worksheet

Building and Room Identification (Installation Site): Burrillville High School Gymnasium



Line Item	Location	Existing/Proposed	Measure Code (Appendix A)	Device Code (Appendix C)	Watts per Fixture (Watts per Device) (Appendix C)	Device Quantity	Annual Hours of Operation*	Minimum Watts Saved
Ex	Room 202, first floor	Existing	--	3F0SEE	90	8	---	---
		Proposed	10	2F32SSE	60	8	3100	30
	Gym	Existing	--	1M0400S	455	39	1872	
		Proposed	57	6F54HSE	351	39	1872	49
		Existing	--					
		Proposed						
		Existing	--					
		Proposed						
		Existing	--					
		Proposed						
		Existing	--					
		Proposed						
		Existing	--					
		Proposed						
		Existing	--					
		Proposed						
		Existing	--					
		Proposed						

* 1000 hours minimum

Ballast Disposal Service Option

I elect to have the Company's disposal contractor take possession and dispose of the fluorescent lighting ballasts from my facility in order to install energy efficient lighting in my facility. Please estimate the total number of PCB ballasts being recycled:
 I am not interested in having the Company provide any fluorescent lighting ballast disposal service.



STATE OF RHODE ISLAND
DEPARTMENT OF ADMINISTRATION — DIVISION OF TAXATION
SALES AND USE TAX

EXEMPTION CERTIFICATE

I hereby certify that the School Department of the Town of Burrill-
ville -----
is exempt from the Rhode Island Sales or Use Tax pursuant to the Rhode Island
Sales and Use Tax Act. This governmental agency is specifically exempted under
Section 44-18-301.

"There are exempted from the taxes imposed by this chapter the
following gross receipts:

"* * *

"1. State and Political Subdivisions. From the sale to, and
from the storage, use or other consumption by this State, any
city, town, district, or other political subdivision of this
State. Every redevelopment agency created pursuant to Chapter
31 of Title 45 shall be deemed to be a subdivision of the
municipality where it is located."

Tangible personal property purchased from: any vendor -----

will be used by said agency.

Governmental agencies are not issued exemption certificate numbers, because
they are not subject to the qualification stipulation established by the
Division of Taxation for other exempt organizations and institutions.

This blanket exemption certificate under the Rhode Island Sales and Use Tax
Act shall apply to all future purchases from the above-mentioned retailer.

Authorized R. I. Tax Division Signature

Marvin M. Lawrence

Title Chief, Excise Tax Section

Dated: March 6, 1979

ELECTRIC DEPARTMENT
VENDOR # 216 BURRILLVILLE, TOWN OF

CHECK # 416011

INVOICE #	DESCRIPTION	DATE	AMOUNT
PARKS & REC	RETRO FIX LIGHING PROJECT	0313/2009	612.49

612.49

PASCOAG UTILITY DISTRICT
ELECTRIC DEPARTMENT
P.O. BOX 107
PASCOAG, RI 02859

FREEDOM BANK
GREENVILLE OFFICE
GREENVILLE, RI

416011

03/19/2009

CHECK NUMBER
416011

AMOUNT
\$*****612.49

SIX HUNDRED TWELVE AND 49/100 DOLLARS *****

NOT VALID AFTER 90 DAYS

Helen A. Moroney

MP

MP

PAY TO THE ORDER OF
TOWN OF BURRILLVILLE
105 HARRISVILLE MAIN STREET
HARRISVILLE RI 02830

⑈ 416011 ⑈ ⑆ 011501705 ⑆ 0000101966 ⑈



Division of
THIELSCH ENGINEERING, INC.
1341 Elmwood Avenue
Cranston, RI 02910

RISE
ENGINEERING

Invoice Number 075621
Invoice Date February 19, 2009

Project RIS-88-08-6653
Page 1 of 1
NET 30

DE 0903

Town of Burrillville ✓ 216
Board of Administration
144 Main Street Box 502
Harrisville, RI 02830

Lighting installation work completed pursuant to contract September 12, 2008 at Parks and Recreation.

Invoice Total

1,671.00

rebate
\$ 612.49

REMIT TO: THIELSCH ENGINEERING, INC. P.O BOX 845327 BOSTON, MA 02284-5327

Tel.: (401) 467-6454 • Fax: (401) 467-2398

Federal ID #050405629

Town of Burrillville Parks and Recreation Department

82 N Main St
 Pascoag, RI 02859
 Mike Woods
 (401) 566-4300



Line Item	Building	Room Name	Fixture Type	Existing Qty	Proposed Qty	Notes	Installed Qty	Comments
1	Parks & Recreation	Office	B2	3	New 4' T8 Wrap		3	✓
2	Parks & Recreation	Files/Rest Room	B1	2	2 Lamp Re-Lamp & Re-Ballast		2	✓
3	Parks & Recreation	Hallway	I1	3	15w CF Mini Twist		3	✓
4	Parks & Recreation	Copy Room	D1	1	No Recommendation		NR	✗
5	Parks & Recreation	Lunch Room	B2	1	New 4' T8 Wrap		1	✓
6	Parks & Recreation	Stairs	I1	1	15w CF Mini Twist		1	✓
7	Parks & Recreation	Conference	C1	5	New 3 lamp Prismatic 2X4		5	✓
8	Parks & Recreation	Conference	B3	1	No Recommendation		NR	✗
0	0	0	0	17	0		17	



Division of Thielsch Engineering, Inc

RISE

1341 Elmwood Avenue

ENGINEERING

Cranston, Rhode Island 02910

Town of Burrillville Parks and Recreation

Department

92 N Main St

Pascoag, RI 02859

Mike Woods

(401) 568-4300

2009

Proposal Summary

7/1/2008

Estimated Current Lighting Load (Wattage)	1,472	Watts
Estimated Proposed Lighting Load (Wattage)	789	Watts
Estimated Lighting Load Savings (Wattage)	683	Watts

Estimated Current Lighting Usage (kWh)	2,548	kWh
Estimated Proposed Lighting Usage (kWh)	1,364	kWh
Estimated Lighting Usage Savings (kWh)	1,184	kWh

Estimated Current Annual Lighting Bill:	$\text{kWh} \times 0.09$	\$	229
Estimated Proposed Annual Lighting Bill:	$\text{kWh} \times 0.09$	\$	123
Estimated Proposed Annual Lighting Bill Savings:		\$	107 \$165.76

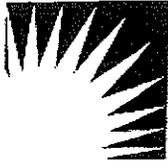
Estimated Total Job Cost	\$	1,670.68
Estimated Utility Incentive	\$	(612.49)
Estimated Customer Net Cost	\$	1,058.19
Maintenance Savings	\$	51
Net Heating and AC Savings	\$	-
Simple Payback (Customer Share/Bill Savings):	Years =	6.7



Town of Burnsville Parks and Rec
 92 N Main St
 Pascoag, RI 02859
 Mike Woods

Department

Line Item	Building	Room Name	Fixture Type	Existing Fixture Type				Proposed Fixture Type				SAVINGS					
				Fixture Type	Hours	Watts	KW	KWh	Fixture Type	Hours	Watts	KW	KWh	KW Saved	KWh Saved		
1	Parks & Recreation	Office	B2	2 lamp T12	3	2,080	70	0.21	437	New 4' T8 Wrap	3	2,080	47	0.141	293	0.07	144
2	Parks & Recreation	Files/Rest Room	B1	2 lamp T12	2	2,080	70	0.14	291	2 Lamp Re-Lamp & Re-Ballast	2	2,080	47	0.094	196	0.05	96
3	Parks & Recreation	Hallway	I1	60w Inc	3	2,080	60	0.18	374	15w CF Mini Twist	3	2,080	15	0.045	94	0.14	281
4	Parks & Recreation	Copy Room	D1	22w Circine	1	2,080	24	0.024	50	No Recommendation	1	2,080	24	0.024	50	0.00	0
5	Parks & Recreation	Lunch Room	B2	2 lamp T12	1	1,040	70	0.07	73	New 4' T8 Wrap	1	1,040	47	0.047	49	0.02	24
6	Parks & Recreation	Stairs	I1	60w Inc	1	1,560	60	0.06	94	15w CF Mini Twist	1	1,560	15	0.015	23	0.05	70
7	Parks & Recreation	Conference	C1	4 lamp T12 Prismatic 2X4	5	1,560	140	0.7	1,092	New 3 lamp Prismatic 2X4	5	1,560	67	0.335	523	0.37	569
8	Parks & Recreation	Conference	B3	3 Lamp T8	1	1,560	88	0.088	137	No Recommendation	1	1,560	88	0.088	137	0.00	0
				TOTALS				17	1,472	2,548	17	1,560	88	0.789	1,364.48	0.68	1,184



RISE Division of Thielsch Engineering, Inc
 1341 Elmwood Avenue
ENGINEERING Cranston, Rhode Island 02910

CONTRACT

This contract is entered into between RISE Engineering
 and Customer for work as described below:

DATE	July 1, 2008
CUSTOMER	Town Of Burrillville Parks & Rec
ATTENTION	Ron Wood
TELEPHONE	401-568-4300
STREET	50 Lodge St
CITY, STATE AND ZIP CODE	Burrillville, RI 02859

RISE Engineering agrees to furnish and install Energy Efficient lighting as described in the Proposal Summary Dated July 1, 2008. This Proposal includes Installation and Electrical Permit Fee.

Total installed project cost:	\$1,670.68
Estimated Incentive:	<u>\$612.49</u>
Customer Net Cost	<u>\$1,058.19</u>

1. Upon final inspection and approval by RISE ENGINEERING and Customer, Customer agrees to remit amount due in Full. Interest of 1% will be charged monthly on any unpaid balance after 30 days.
2. Any defect in materials, design, or installation found within one (1) year of installation date will be remedied without charge and within a reasonable period of time.
3. All work to be completed in a workmanlike manner according to standard practices.
4. Contract cost includes any permit(s) required by law for this installation. Prior to, or during installation, RISE Engineering (at its sole discretion) may choose not to proceed further with the installation for reasons relative to Safety or discovery of unforeseen conditions
5. Any change from the above specifications involving extra costs will be executed only on written orders, and will become an extra charge over and above the contract amount.
6. In the absence of alternate arrangements, disposal of disabled materials is the responsibility of the Customer.
7. This contract is subject to Utility company approval of any Utility program incentives incorporated herein. All applicable Utility program incentives shall be assigned to RISE ENGINEERING.
8. Pricing is valid for 30 days from above date.

NOTE: THIS CONTRACT MAY BE WITHDRAWN BY US IF NOT EXECUTED WITHIN 30 DAYS.

AUTHORIZED SIGNATURE _____

DATE _____

Acceptance of Contract – The above prices, Specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payments will be made as outlined above.

DATE OF ACCEPTANCE _____

SIGNATURE _____

PROJECT: DI0904-Legion Hall
 TYPE: DM-DEMAND MANAGEMENT SUB-TYPE: IC-INDUSTRIAL/COMMERCIAL STATUS: ACTIVE
 BUDGET PROJECT-TO-DATE YEAR-TO-DATE ENCUMBERED BALANCE
 01-0000-214.24-20 DEMAND SIDE MANAGE .00 232.05 232.05 .00 232.05-
 AP 416000 03/13/2009 000294 468 BOARD OF ADMINISTRATION .00 2009 03
 RETRO FIT LIGHTING LEGION HALL
 TRANSACTION TOTAL: 232.05 .00

PROJECT: DI0904 PROJECT TOTALS

CLASSIFICATION TOTALS:

LIABILITIES:	232.05
TRANSACTION TOTAL:	232.05
ESTIMATE COMPARISON:	.00
(ACTUAL) SUMMARY TOTAL:	9.05-
	232.05-

233
~~233.00~~
 .00

ELECTRIC DEPARTMENT
VENDOR # 468 BOARD OF ADMINISTRATION

CHECK # 416000

INVOICE #	DESCRIPTION	DATE	AMOUNT
LEGION HALL	RETRO FIT LIGHTING	0313/2009	232.05

232.05

PASCOAG UTILITY DISTRICT
ELECTRIC DEPARTMENT
P.O. BOX 107
PASCOAG, RI 02859

FREEDOM BANK
GREENVILLE OFFICE
GREENVILLE, RI

416000

03/19/2009

CHECK NUMBER

416000

AMOUNT

\$*****232.05

TWO HUNDRED THIRTY TWO AND 05/100 DOLLARS *****

NOT VALID AFTER 90 DAYS

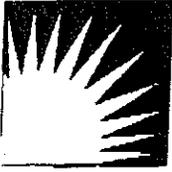
Helen A. Moroney

MP

MP

PAY TO THE ORDER OF
BOARD OF ADMINISTRATION
144 MAIN STREET
HARRISVILLE RI 02830

⑈ 416000 ⑈ ⑆ 0115017051 ⑆ 0000101966 ⑈



Division of
THIELSCH ENGINEERING, INC.
1341 Elmwood Avenue
Cranston, RI 02910

RISE
ENGINEERING

Invoice Number 075738
Invoice Date February 27, 2009

Project RIS-88-08-6677
Page 1 of 1
NET 30

Town of Burrillville
Board of Administration ✓
144 Main Street Box 502
Harrisville, RI 02830

DI0904

Furnish and install energy efficient lighting pursuant to contract
September 2, 2008 at:

Burrillville Legion Hall
95 Main Street
Pascoag, RI

Revised contract amount 820.00

Invoice Total

820.00

Rebate \$ 232.05

REMIT TO: THIELSCH ENGINEERING, INC. P.O BOX 845327 BOSTON, MA 02284-5327

Tel.: (401) 467-6454 • Fax: (401) 467-2398

Federal ID #050405629

Town of Burrillville Legion Hall
 92 N Main St
 Pascoag, RI 02859
 Mike Woods
 (401) 588-4300



Item	Room Name	Room Type	Quantity	Notes	ADDED ONLY	PROPOSED	INSTALLED	COMMENTS
1	Legion Hall Hall	B1	2 lamp T12		4			
2	Legion Hall Entry	I1	100w Inc		1	2 Lamp Re-Lamp & Re-Ballast	4	
3	Legion Hall Coat Room	I1	100w Inc		2	15w CF Mini Twist	1	
4	Legion Hall Rest Room	I1	100w Inc		2	15w CF Mini Twist	2	
5	Legion Hall Office	B1	2 lamp T12		2	15w CF Mini Twist	2	
6	Legion Hall Exit Rear	I2	100w Incandescent		1	2 Lamp Re-Lamp & Re-Ballast	1	
0		0			11	26w CF Black Carriage Fixture w/ PE	1	Installed 2 CF 16W
					0		11	

BR30

2009



RISE Division of Thielsch Engineering, Inc
ENGINEERING 1341 Elmwood Avenue
Cranston, Rhode Island 02910

Town of Burrillville Legion Hall
92 N Main St
Pascoag, RI 02859
Mike Woods
(401) 568-4300

Proposal Summary

7/1/2008

Estimated Current Lighting Load (Wattage)	950	Watts
Estimated Proposed Lighting Load (Wattage)	325	Watts
Estimated Lighting Load Savings (Wattage)	625	Watts

Estimated Current Lighting Usage (kWh)	728	kWh
Estimated Proposed Lighting Usage (kWh)	299	kWh
Estimated Lighting Usage Savings (kWh)	429	kWh

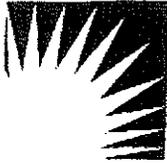
Estimated Current Annual Lighting Bill:	^{C=14} kWh * 0.09	\$	66
Estimated Proposed Annual Lighting Bill:	kWh * 0.09	\$	27
Estimated Proposed Annual Lighting Bill Savings:		\$	39 60.06

Estimated Total Job Cost	\$	681.97
Estimated Utility Incentive	\$	(232.05)
Estimated Customer Net Cost	\$	449.92
Maintenance Savings	\$	33
Net Heating and AC Savings	\$	-
Simple Payback (Customer Share/Bill Savings):	Years =	6.3



Town of Burrillville Legion Hall
 92 N Main St
 Pascoag, RI 02859
 Mike Woods

Line Item	Building	Room Name	Fixture Type	Existing Fixture Type				Proposed Fixture Type				SAVINGS				
				Fixt. Qty	Existing Hours	Watts	kW	kWh	Proposed Fixture Type	Fixt Qty	Proposed Hours	Watts	kW	kWh	kW Saved	kWh Saved
1	Legion Hall	Hall	B1	4	1,040	70	0.28	291	2 Lamp Re-Lamp & Re-Ballast	4	1,040	47	0.188	196	0.09	96
2	Legion Hall	Entry	I1	1	1,040	100	0.1	104	15w CF Mini Twist	1	1,040	15	0.015	16	0.09	88
3	Legion Hall	Coat Room	I1	2	520	100	0.2	104	15w CF Mini Twist	2	520	15	0.03	16	0.17	88
4	Legion Hall	Rest Room	I1	2	520	100	0.2	104	15w CF Mini Twist	2	520	15	0.03	16	0.17	88
5	Legion Hall	Office	B1	1	1,040	70	0.07	73	2 Lamp Re-Lamp & Re-Ballast	1	1,040	47	0.047	49	0.02	24
6	Legion Hall	Exit Rear	I1	1	520	100	0.1	52	15w CF Mini Twist	1	520	15	0.015	8	0.09	44
TOTALS				11			0.95	728		11			0.325	299	0.63	429



RISE Division of Thielsch Engineering, Inc
 1341 Elmwood Avenue
ENGINEERING Cranston, Rhode Island 02910

CONTRACT

This contract is entered into between RISE Engineering and Customer for work as described below:

DATE	July 1, 2008
CUSTOMER	Town Of Burrillville Legion Hall
ATTENTION	Ron Wood
TELEPHONE	401-568-4300
STREET	50 Lodge St
CITY, STATE AND ZIP CODE	Burrillville, RI 02859

RISE Engineering agrees to furnish and install Energy Efficient lighting as described in the Proposal Summary Dated July 1, 2008. This Proposal includes Installation and Electrical Permit Fee.

Total installed project cost:	\$681.97
Estimated Incentive:	\$232.05
Customer Net Cost	\$449.92

1. Upon final inspection and approval by RISE ENGINEERING and Customer, Customer agrees to remit amount due in Full. Interest of 1% will be charged monthly on any unpaid balance after 30 days.
2. Any defect in materials, design, or installation found within one (1) year of installation date will be remedied without charge and within a reasonable period of time.
3. All work to be completed in a workmanlike manner according to standard practices.
4. Contract cost includes any permit(s) required by law for this installation. Prior to, or during installation, RISE Engineering (at its sole discretion) may choose not to proceed further with the installation for reasons relative to Safety or discovery of unforeseen conditions
5. Any change from the above specifications involving extra costs will be executed only on written orders, and will become an extra charge over and above the contract amount.
6. In the absence of alternate arrangements, disposal of disabled materials is the responsibility of the Customer.
7. This contract is subject to Utility company approval of any Utility program incentives incorporated herein. All applicable Utility program incentives shall be assigned to RISE ENGINEERING.
8. Pricing is valid for 30 days from above date.

NOTE: THIS CONTRACT MAY BE WITHDRAWN BY US IF NOT EXECUTED WITHIN 30 DAYS.

AUTHORIZED SIGNATURE _____

DATE _____

Acceptance of Contract – The above prices, Specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payments will be made as outlined above.

DATE OF ACCEPTANCE _____

SIGNATURE _____

PROJECT: DI0905-Town Hall
 TYPE: DM-DEMAND MANAGEMENT SUB-TYPE: IC-INDUSTRIAL/COMMERCIAL STATUS: ACTIVE
 BUDGET PROJECT-TO-DATE YEAR-TO-DATE ENCUMBERED BALANCE
 TYPE CHK# TRAN DT REF # VOUCH# VEND # DESCRIPTION TRANS AMT TRANS ENCUMBERED FISC YR PERIOD
 01-0000-214.24-20 DEMAND SIDE MANAGE .00 3,275.54 .00 3,275.54-
 AP 416001 03/13/2009 000295 468 BOARD OF ADMINISTRATION 3,275.54 .00 2009 03
 RETRO FIX LIGHING PROJECT TOWN HALL
 TRANSACTION TOTAL: 3,275.54 .00

PROJECT: DI0905 PROJECT TOTALS 3,275.54

CLASSIFICATION TOTALS: LIABILITIES: 3,275.54

TRANSACTION TOTAL: 3,275.54
 ESTIMATE COMPARISON: .00
 (ACTUAL) SUMMARY TOTAL: 3,275.54-46

ELECTRIC DEPARTMENT
VENDOR # 468 BOARD OF ADMINISTRATION

CHECK # 416001

INVOICE #	DESCRIPTION	DATE	AMOUNT
TOWN HALL	RETRO FIX LIGHING PROJECT	0313/2009	3,275.54

3,275.54

PASCOAG UTILITY DISTRICT
ELECTRIC DEPARTMENT
P.O. BOX 107
PASCOAG, RI 02859

FREEDOM BANK
GREENVILLE OFFICE
GREENVILLE, RI

416001

03/13/2009

CHECK NUMBER
416001

AMOUNT
\$****3,275.54

THREE THOUSAND TWO HUNDRED SEVENTY FIVE AND 54/100 DOLLARS *****

NOT VALID AFTER 90 DAYS

Helen A. Moroney

MP

MP

PAY TO ORDER OF
BOARD OF ADMINISTRATION
144 MAIN STREET
HARRISVILLE RI 02830

⑈ 416001 ⑈ ⑆01⑆50⑆705⑆ 0000⑆10⑆966⑈



Division of
 THIELSCH ENGINEERING, INC.
 1341 Elmwood Avenue
 Cranston, RI 02910

Invoice Number 075749
 Invoice Date March 03, 2009
 Project RIS-88-08-6652
 Page 1 of 1
 NET 30

Town of Burrillville
 Board of Administration ✓
 144 Main Street Box 502
 Harrisville, RI 02830

DI0905

Furnish and install energy efficient lighting pursuant to contract
 September 2, 2008 at Town Hall.

Invoice Total

6,928.00

\$ Rebate \$ 3275.54

*Oh
 will*

REMIT TO: THIELSCH ENGINEERING, INC. P.O BOX 845327 BOSTON, MA 02284-5327

Tel.: (401) 467-6454 • Fax: (401) 467-2398
 Federal ID #050405629



CF13CL

7:00 AM
See list

Town of Burrillville Town Hall
105 Harrisville Main St
Harrisville, RI 02859
Mike Woods
(401) 568-4300

Jeannie

Item #	Location	Room Name	Room Type	Existing Fixture	AUDITED QUANTITY		Description	REMARKS	REASON FOR CHANGE	UNINSTALLED QUANTITY	COMMENTS
					Proposed	Existing					
1	Town Hall	Town Manager	C1	4 Lamp T8 2X4	2	2	4 Lamp T8 Re-Lamp & Re-Ballast			1	
2	Town Hall	Uni-sex Restroom	B1	2 Lamp T8 2X4	2	2	2 Lamp T8 Re-Lamp & Re-Ballast			0	
3	Town Hall	Manager Assistant	C1	4 Lamp T8 2X4	1	1	4 Lamp T8 Re-Lamp & Re-Ballast			0	
4	Town Hall	Clerk Office	D1	2 Lamp T8 2X2 6" U Tube	12	12	2 Lamp T8 Re-Lamp & Re-Ballast 6" U Tube			0	
5	Town Hall	Vault	C1	4 Lamp T8 2X4	8	8	4 Lamp T8 Re-Lamp & Re-Ballast			0	
6	Town Hall	Vault	C1	4 Lamp T8 2X4	2	2	4 Lamp T8 Re-Lamp & Re-Ballast			0	
7	Town Hall	Entry Hall	C1	4 Lamp T8 2X4	3	2	4 Lamp T8 Re-Lamp & Re-Ballast			1	
8	Town Hall	Town Clerk	C1	4 Lamp T8 2X4	1	3	4 Lamp T8 Re-Lamp & Re-Ballast			0	
9	Town Hall	Hallway	H1	90w Incandescent	13	1	4 Lamp T8 Re-Lamp & Re-Ballast			0	
10	Town Hall	Financial Director	D1	2 Lamp T8 2X2 6" U Tube	5	8	New 3 Lamp Parabolic 2X2			0	
11	Town Hall	Ladies/Mens	B1	2 Lamp T8 2X4	2	5	2 Lamp T8 Re-Lamp & Re-Ballast 6" U Tube			0	
12	Town Hall	Ladies/Mens	I2	90w Incandescent	2	2	2 Lamp T8 Re-Lamp & Re-Ballast			2	
13	Town Hall	Tax Collector	D1	2 Lamp T8 2X2 6" U Tube	6	2	18w CF Screw In Twist			0	
14	Town Hall	Treasurers Office	D1	2 Lamp T8 2X2 6" U Tube	5	6	2 Lamp T8 Re-Lamp & Re-Ballast 6" U Tube			0	
15	Town Hall	File	I3	60w Incandescent	2	5	2 Lamp T8 Re-Lamp & Re-Ballast 6" U Tube			0	
16	Town Hall	Rest Room	I2	90w Incandescent	2	2	20w CF Screw In Twist			0	
17	Town Hall	Assessors Office	C1	4 Lamp T8 2X4	8	2	18w CF Screw In Twist			0	
18	Town Hall	Lower Stair	I4	120w Incandescent	1	8	4 Lamp T8 Re-Lamp & Re-Ballast			0	
9A					1	1	2X13w Drum fixture			0	

need 14
13w mini-tubes

2

2009



RISE Division of Thielsch Engineering, Inc
ENGINEERING 1341 Elmwood Avenue
Cranston, Rhode Island 02910

Town of Burrillville Town Hall
105 Harrisville Main St
Harrisville, RI 02859
Mike Woods
(401) 568-4300

Proposal Summary 7/2/2008

Estimated Current Lighting Load (Wattage)	9,934	Watts
Estimated Proposed Lighting Load (Wattage)	5,803	Watts
Estimated Lighting Load Savings (Wattage)	4,131	Watts

Estimated Current Lighting Usage (kWh)	20,966	kWh
Estimated Proposed Lighting Usage (kWh)	12,238	kWh
Estimated Lighting Usage Savings (kWh)	8,728	kWh

Estimated Current Annual Lighting Bill:	kWh * 0.09 ^{.14}	\$	1,887
Estimated Proposed Annual Lighting Bill:	kWh * 0.09	\$	1,101
Estimated Proposed Annual Lighting Bill Savings:		\$	786 \$1221.92

Estimated Total Job Cost	\$	6,928.38
Estimated Utility Incentive	\$	(3,275.54)
Estimated Customer Net Cost	\$	3,652.83
Maintenance Savings	\$	393
Net Heating and AC Savings	\$	-
Simple Payback (Customer Share/Bill Savings):	Years =	3.1

Town of Burrillville Town Hall
 105 Harrisville Main St
 Harrisville, RI 02859
 Mike Woods



Line Item	Building	Room Name	Fixture Type	Existing Fixture Type	Fist. Qty	Existing Hours	Watts	KW	kWh	Proposed Fixture Type					Sensor					Savings
										Proposed Hours	Watts	KW	kWh	Sensor Model #	Sensor Qty	KW Saved	kWh Saved			
1	Town Hall	Town Manager	C1	4 Lamp T8 2X4	2	2,340	110	0.22	515	4 Lamp T8 Re-Lamp & Re-Ballast	2	1,521	89	0.178	271	PW-100	1	0.04	244	
2	Town Hall	Uni-sex Restroom	B1	2 Lamp T8 2X4	2	1,300	60	0.12	155	2 Lamp T8 Re-Lamp & Re-Ballast	2	1,300	47	0.094	122		0	0.03	34	
3	Town Hall	Manager Assistant	C1	4 Lamp T8 2X4	1	2,340	110	0.11	257	4 Lamp T8 Re-Lamp & Re-Ballast	1	2,340	89	0.089	208		0	0.02	49	
4	Town Hall	Clerk Office	D1	2 Lamp T8 2X2 6" Ulube	12	2,340	52	0.624	1,460	2 Lamp T8 Re-Lamp & Re-Ballast 6" U Tube	12	2,340	46	0.552	1,292		0	0.07	168	
5	Town Hall	Vault	C1	4 Lamp T8 2X4	8	2,340	110	0.88	2,059	4 Lamp T8 Re-Lamp & Re-Ballast	8	2,340	89	0.712	1,666		0	0.17	393	
6	Town Hall	Vault	C1	4 Lamp T8 2X4	2	2,340	110	0.22	515	4 Lamp T8 Re-Lamp & Re-Ballast	2	1,521	89	0.178	271	W1000A	1	0.04	244	
7	Town Hall	Entry Hall	C1	4 Lamp T8 2X4	3	2,340	110	0.33	772	4 Lamp T8 Re-Lamp & Re-Ballast	3	2,340	89	0.267	625		0	0.06	147	
8	Town Hall	Town Clerk	C1	4 Lamp T8 2X4	1	2,340	110	0.11	257	4 Lamp T8 Re-Lamp & Re-Ballast	1	2,340	89	0.089	208		0	0.02	49	
9	Town Hall	Hallway	I1	90w Incandescent	13	2,340	90	1.17	2,738	New 3 Lamp Parabolic 2X2	8	2,340	53	0.424	992		0	0.75	1,746	
10	Town Hall	Financial Director	D1	2 Lamp T8 2X2 6" Ulube	5	2,340	52	0.26	608	2 Lamp T8 Re-Lamp & Re-Ballast 6" U Tube	5	2,340	46	0.23	538		0	0.03	70	
11	Town Hall	Ladies/Mens	B1	2 Lamp T8 2X4	2	1,820	60	0.12	218	2 Lamp T8 Re-Lamp & Re-Ballast	2	1,183	47	0.084	111	PW-100	2	0.03	107	
12	Town Hall	Ladies/Mens	I2	90w Incandescent	2	1,820	90	0.18	328	18w CF Screw In Twist	2	1,183	20	0.04	47		0	0.14	280	
13	Town Hall	Tax Collector	D1	2 Lamp T8 2X2 6" Ulube	6	2,340	52	0.312	730	2 Lamp T8 Re-Lamp & Re-Ballast 6" U Tube	6	2,340	46	0.276	646		0	0.04	84	
14	Town Hall	Treasurers Office	D1	2 Lamp T8 2X2 6" Ulube	5	2,340	52	0.26	608	2 Lamp T8 Re-Lamp & Re-Ballast 6" U Tube	5	2,340	46	0.23	538		0	0.03	70	
15	Town Hall	File	I3	60w Incandescent	2	2,340	60	0.12	281	20w CF Screw In Twist	2	2,340	22	0.044	103		0	0.08	178	
16	Town Hall	Rest Room	I2	90w Incandescent	2	1,560	90	0.18	281	18w CF Screw In Twist	2	1,560	20	0.04	62		0	0.14	218	
17	Town Hall	Assessors Office	C1	4 Lamp T8 2X4	8	2,340	110	0.88	2,059	4 Lamp T8 Re-Lamp & Re-Ballast	8	2,340	89	0.712	1,666		0	0.17	393	
18	Town Hall	Lower Stair	I4	120w Incandescent	1	2,340	120	0.12	281	2X13w Drum fixture	1	2,340	28	0.028	66		0	0.09	215	
19	Town Hall	Basement Office	D1	2 Lamp T8 2X2 6" Ulube	6	2,080	52	0.312	649	2 Lamp T8 Re-Lamp & Re-Ballast 6" U Tube	6	2,080	46	0.276	574		0	0.04	75	
20	Town Hall	Service Tech	D1	2 Lamp T8 2X2 6" Ulube	5	2,080	52	0.26	541	2 Lamp T8 Re-Lamp & Re-Ballast 6" U Tube	5	1,352	46	0.23	311	W1000A	1	0.03	230	
21	Town Hall	Basement Hall	D1	2 Lamp T8 2X2 6" Ulube	3	2,080	52	0.156	324	2 Lamp T8 Re-Lamp & Re-Ballast 6" U Tube	3	2,080	46	0.138	287		0	0.02	37	
22	Town Hall	Records	D1	2 Lamp T8 2X2 6" Ulube	7	2,080	52	0.364	757	2 Lamp T8 Re-Lamp & Re-Ballast 6" U Tube	7	2,080	46	0.322	670		0	0.04	87	
23	Town Hall	Basement	I5	60w Incandescent	6	2,080	60	0.36	749	15w CF Screw In Mini	6	2,080	15	0.09	187		0	0.27	562	
24	Town Hall	Records	I6	67w Incandescent	2	1,560	67	0.134	209	20w CF Screw In Twist	2	1,560	22	0.044	69		0	0.09	140	
25	Town Hall	Meeting Room	I7	67w Incandescent	16	1,560	67	1.072	1,672	15w CF Screw In Mini	16	1,560	15	0.24	374		0	0.83	1,298	
26	Town Hall	Cans	I8	90w Incandescent	10	1,560	90	0.9	1,404	15w CF Screw In BRF 30	10	1,560	15	0.15	234		0	0.75	1,170	
27	Town Hall	Wall	I5	60w Incandescent	2	1,560	60	0.12	187	15w CF Screw In Mini	2	1,560	15	0.03	47		0	0.09	140	
28	Town Hall	Exits	E1	20 w Incandescent Exit	2	8,736	20	0.04	349	3w LED Exit Kit	2	8,736	3	0.006	52		0	0.03	297	
TOTALS										135		9.934	20,866	131		5.803	12,237.9	5	4.13	8,728

PROJECT: DI0906-Beckwith Lodge		TYPE: DM-DEMAND MANAGEMENT		SUB-TYPE: IC-INDUSTRIAL/COMMERCIAL		STATUS: ACTIVE	
TYPE	CHK#	TRAN DT REF #	VOUCH#	VEND #	BUDGET PROJECT-TO-DATE	YEAR-TO-DATE	BALANCE
		DESCRIPTION		TRANS AMT		ENCUMBERED	
		FISC YR PERIOD		TRANS ENCUMBERED		FISC YR PERIOD	
01-0000-214.24-20		DEMAND SIDE MANAGE	.00		1,419.98		
AP 416012	03/13/2009	000297		216 BURRILLVILLE, TOWN OF	1,419.98	.00	1,419.98-
		RETRO FIX LIGHTING PROJECT		BECKWITH LODGE		.00	2009 03
		TRANSACTION TOTAL:			1,419.98	.00	

PROJECT: DI0906 ===== P R O J E C T T O T A L S

CLASSIFICATION TOTALS:		LIABILITIES:	
TRANSACTION TOTAL:	1,419.98	TRANSACTION TOTAL:	1,419.98
ESTIMATE COMPARISON:	.00	ESTIMATE COMPARISON:	.00
(ACTUAL) SUMMARY TOTAL:	.00	(ACTUAL) SUMMARY TOTAL:	.02
			1,419.98-

ELECTRIC DEPARTMENT
VENDOR # 216 BURRILLVILLE, TOWN OF

CHECK # 416012

INVOICE #	DESCRIPTION	DATE	AMOUNT
BECKWITH LODGE	RETRO FIX LIGHING PROJECT	0313/2009	1,419.98

1,419.98

PASCOAG UTILITY DISTRICT
ELECTRIC DEPARTMENT
P.O. BOX 107
PASCOAG, RI 02859

FREEDOM BANK
GREENVILLE OFFICE
GREENVILLE, RI

416012

DATE
03/19/2009

CHECK NUMBER
416012

AMOUNT
\$****1,419.98

ONE THOUSAND FOUR HUNDRED NINETEEN AND 98/100 DOLLARS *****

NOT VALID AFTER 90 DAYS

Helen F. Moroney

MP

MP

PAY TO THE ORDER OF
TOWN OF BURRILLVILLE
105 HARRISVILLE MAIN STREET
HARRISVILLE RI 02830



Division of
THIELSCH ENGINEERING, INC.
1341 Elmwood Avenue
Cranston, RI 02910

RISE
ENGINEERING

Invoice Number 075630
Invoice Date February 19, 2009

Project RIS-88-08-6651
Page 1 of 1
NET 30

DI 0 966

Town of Burrillville
Board of Administration
144 Main Street Box 502
Harrisville, RI 02830

Lighting installation work completed pursuant to contract September 12, 2008 at:

Beckwith Lodge
50 Lodge Street
Pascoag, RI

Invoice Total

2,487.43

Rebate \$ 1419.98

REMIT TO: THIELSCH ENGINEERING, INC. P.O BOX 845327 BOSTON, MA 02284-5327

Tel.: (401) 467-6454 • Fax: (401) 467-2398

Federal ID #050405629



Town of Burrillville Beckwith Lodge
 50 Lodge Rd
 Pascoag, RI 02859
 Mike Wood
 (401) 568-4300

Line Item	Building	Room Name	Fixture Type	AUDITED QTY	Proposed Fixtures	AUDITED QTY	INTEGRATED PROPOSED QTY	COMMENTS
1	Beckwith Lodge	Kitchen	B1	6	2 Lamp Re-Lamp & Re-Ballast	6	6	✓
2	Beckwith Lodge	Stage	B1	3	2 Lamp Re-Lamp & Re-Ballast	3	3	✓
3	Beckwith Lodge	Side Entry	B1	1	2 Lamp Re-Lamp & Re-Ballast	1	1	✓
4	Beckwith Lodge	Office	B1	2	2 Lamp Re-Lamp & Re-Ballast	2	2	✓
5	Beckwith Lodge	Main Entry	B1	2	2 Lamp Re-Lamp & Re-Ballast	2	3	✓
6	Beckwith Lodge	Main Hall	B1	24	2 Lamp Re-Lamp & Re-Ballast	24	24	✓
7	Beckwith Lodge	Exit Door	I1	3	3 Lamp PL 13 Wall Pack w Photo Cell	3	3	✓
0	0	0	0	0		41	41	

#1 RL RB



Division of Thielsch Engineering, Inc

RISE 1341 Elmwood Avenue
ENGINEERING Cranston, Rhode Island 02910

2009

Town of Burrillville Beckwith Lodge
50 Lodge Rd
Pascoag, RI 02859
Mike Wood
(401) 568-4300

Proposal Summary

7/1/2008

Estimated Current Lighting Load (Wattage)		2,580	Watts
Estimated Proposed Lighting Load (Wattage)		1,921	Watts
Estimated Lighting Load Savings (Wattage)		659	Watts
Estimated Current Lighting Usage (kWh)		4,274	kWh
Estimated Proposed Lighting Usage (kWh)		2,911	kWh
Estimated Lighting Usage Savings (kWh)		1,363	kWh
Estimated Current Annual Lighting Bill:	$\text{kWh} * 0.09$	\$	385
Estimated Proposed Annual Lighting Bill:	$\text{kWh} * 0.09$	\$	262
Estimated Proposed Annual Lighting Bill Savings:		\$	123 \$190.82
Estimated Total Job Cost		\$	2,487.43
Estimated Utility Incentive		\$	(1,419.98)
Estimated Customer Net Cost		\$	1,067.45
Maintenance Savings		\$	103
Net Heating and AC Savings		\$	-
Simple Payback (Customer Share/Bill Savings):	Years =		4.7

0.14



Town of Burrillville Beckwith Lodge
 50 Lodge Rd
 Pascoag, RI 02859
 Mike Wood

Line Item	Building	Room Name	Fixture Type	Existing				Proposed				SAVINGS					
				Existing Fixture Type	Fixt. Qty	Existing Hours	Watts	kW	kWh	Proposed Fixture Type	Fixt. Qty	Proposed Hours	Watts	kW	kWh	kW Saved	kWh Saved
1	Beckwith Lodge	Kitchen	B1	2 Lamp T8	6	1,300	60	0.36	468	2 Lamp Re-Lamp & Re-Ballast	6	1,300	47	0.282	367	0.08	101
2	Beckwith Lodge	Stage	B1	2 Lamp T8	3	1,300	60	0.18	234	2 Lamp Re-Lamp & Re-Ballast	3	1,300	47	0.141	183	0.04	51
3	Beckwith Lodge	Side Entry	B1	2 Lamp T8	1	1,300	60	0.06	78	2 Lamp Re-Lamp & Re-Ballast	1	1,300	47	0.047	61	0.01	17
4	Beckwith Lodge	Office	B1	2 Lamp T8	2	1,300	60	0.12	156	2 Lamp Re-Lamp & Re-Ballast	2	1,300	47	0.094	122	0.03	34
5	Beckwith Lodge	Main Entry	B1	2 Lamp T8	2	1,300	60	0.12	156	2 Lamp Re-Lamp & Re-Ballast	2	1,300	47	0.094	122	0.03	34
6	Beckwith Lodge	Main Hall	B1	2 Lamp T8	24	1,300	60	1.44	1,872	2 Lamp Re-Lamp & Re-Ballast	24	1,300	47	1.128	1,466	0.31	406
7	Beckwith Lodge	Exit Door	I1	100w Inc	3	4,368	100	0.3	1,310	3 Lamp PL 13 Wall Pack w Photo Cell	3	4,368	45	0.135	590	0.17	721
				TOTALS	41			2.58	4,274		41		1.921	2911.48	0.66	1,363	



RISE Division of Thielsch Engineering, Inc
 1341 Elmwood Avenue
ENGINEERING Cranston, Rhode Island 02910

CONTRACT

This contract is entered into between RISE Engineering and Customer for work as described below:

DATE	July 1, 2008
CUSTOMER	Town Of Burrillville Beckwith Lodge
ATTENTION	Ron Wood
TELEPHONE	401-568-4300
STREET	50 Lodge St
CITY, STATE AND ZIP CODE	Burrillville, RI 02859

RISE Engineering agrees to furnish and install Energy Efficient lighting as described in the Proposal Summary Dated July 1, 2008. This Proposal includes Installation and Electrical Permit Fee.

Total installed project cost:	\$2,487.43
Estimated Incentive:	\$1,419.98
Customer Net Cost	\$1,067.45

1. Upon final inspection and approval by RISE ENGINEERING and Customer, Customer agrees to remit amount due in Full. Interest of 1% will be charged monthly on any unpaid balance after 30 days.
2. Any defect in materials, design, or installation found within one (1) year of installation date will be remedied without charge and within a reasonable period of time.
3. All work to be completed in a workmanlike manner according to standard practices.
4. Contract cost includes any permit(s) required by law for this installation. Prior to, or during installation, RISE Engineering (at its sole discretion) may choose not to proceed further with the installation for reasons relative to Safety or discovery of unforeseen conditions
5. Any change from the above specifications involving extra costs will be executed only on written orders, and will become an extra charge over and above the contract amount.
6. In the absence of alternate arrangements, disposal of disabled materials is the responsibility of the Customer.
7. This contract is subject to Utility company approval of any Utility program incentives incorporated herein. All applicable Utility program incentives shall be assigned to RISE ENGINEERING.
8. Pricing is valid for 30 days from above date.

NOTE: THIS CONTRACT MAY BE WITHDRAWN BY US IF NOT EXECUTED WITHIN 30 DAYS.

AUTHORIZED SIGNATURE _____

DATE _____

Acceptance of Contract – The above prices, Specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payments will be made as outlined above.

DATE OF ACCEPTANCE _____

SIGNATURE _____

PROJECT: DI0909-Committed Funds-Lighting
 TYPE: DM-DEMAND MANAGEMENT SUB-TYPE: IC-INDUSTRIAL/COMMERCIAL STATUS: ACTIVE

TYPE	CHK#	TRAN DT REF #	VOUCH#	VEND #	BUDGET	PROJECT-TO-DATE	YEAR-TO-DATE	ENCUMBERED	ENCUMBERED	FISC YR PERIOD	BALANCE
01-0000-214.24-20		DEMAND SIDE MANAGE			.00	4,015.22	4,015.22	.00	.00	2009	4,015.22-
AP	416010	03/13/2009	000293	216	BURRILLVILLE, TOWN OF	4,015.22	4,015.22	.00	.00	2009	03
		RETRO FTI LIGHTING									
TRANSACTION TOTAL:						4,015.22		.00			

PROJECT: DI0909 PROJECT TOTALS

CLASSIFICATION TOTALS:

LIABILITIES: 4,015.22

TRANSACTION TOTAL: 4,015.22

ESTIMATE COMPARISON: 4,015.22

(ACTUAL) SUMMARY TOTAL: 4,015.22

2,484.78

4,015.22-

4015
~~6,500.00~~
 .00

ELECTRIC DEPARTMENT
VENDOR # 216 BURRILLVILLE, TOWN OF

CHECK # 416010

INVOICE #	DESCRIPTION	DATE	AMOUNT
HIGHWAY GARG	RETRO FIT LIGHTING	0313/2009	4,015.22

4,015.22

PASCOAG UTILITY DISTRICT
ELECTRIC DEPARTMENT
P.O. BOX 107
PASCOAG, RI 02859

FREEDOM BANK
GREENVILLE OFFICE
GREENVILLE, RI

416010

DATE
03/19/2009

CHECK NUMBER
416010

AMOUNT

\$****4,015.22

FOUR THOUSAND FIFTEEN AND 22/100 DOLLARS *****

NOT VALID AFTER 90 DAYS

Helen A. Moroney

MP

MP

PAY TO THE ORDER OF
TOWN OF BURRILLVILLE
105 HARRISVILLE MAIN STREET
HARRISVILLE RI 02830

⑈ 4 16010 ⑈ ⑆ 011501705 ⑆ 0000101966 ⑈



Division of
THIELSCH ENGINEERING, INC.
1341 Elmwood Avenue
Cranston, RI 02910

Invoice Number 075740
Invoice Date March 02, 2009

Project RIS-88-08-6650
Page 1 of 1
NET 30

DI 0909

Town of Burrillville ✓
Board of Administration
144 Main Street Box 502
Harrisville, RI 02830

Furnish and install energy efficient lighting pursuant to contract
September 25, 2008 at:

Burrillville Highway Garage
65 Union Avenue
Burrillville, RI

Revised contract amount

7,231.00

Invoice Total

7,231.00

Rebate \$4015.22

REMIT TO: THIELSCH ENGINEERING, INC. P.O BOX 845327 BOSTON, MA 02284-5327

Tel.: (401) 467-6454 * Fax: (401) 467-2398

Federal ID #050405629

Burrillville Highway Garage
 65 Union Ave
 Burrillville, RI 02830
 Richard Bernardo
 (401) 568-9469



LINE NO.	ROOM NAME	DESCRIPTION	QUANTITY	UNIT	REMARKS	QUANTITY	UNIT	REMARKS
1	OFFICE	4 LAMP 4' T-12	10		4 LAMP RELAMP AND REBALLAST	10		10
2	GARAGE	2 LAMP 8' T 12	6		4 LAMP RETROFIT KIT	6		6
3	GARAGE	2 LAMP 4' T-12	2		NEW 2 LAMP 4' WRAP	2		2
4	GARAGE	4 LAMP 4' T-12	1		NEW 4 LAMP 8' INDUSTRIAL	1		1 2 lamp included
5	GARAGE	2 LAMP 8' T 12	3		NEW 4 LAMP 8' STRIP	3		3
6	LUNCH ROOM	60 WATT INCANDESCENT	3		15W SCREW IN	3		3
7	REST ROOM	2 LAMP 4' T-12	1		2 LAMP RELAMP AND REBALLAST	1		1
8	COMPRESSOR ROOM	T8 EXISTING	0		NO RETROFIT	0		0
9	SERVICE BAY / STORAGE	2 LAMP 8' T 12	8		4 LAMP RETROFIT KIT	8		8
10	REPAIR BAY	2 LAMP 8' T 12	9		4 LAMP RETROFIT KIT	9		9
11	REPAIR BAY	4 LAMP 4' T-12	1		4 LAMP RELAMP AND REBALLAST	1		1
0			0			0		44

Robert Jordan

From: Joe Conlon

Sent: Friday, February 27, 2009 1:44 PM

To: Robert Jordan

Cc: Todd Blanchard; Gene Medley

Bob,

Please pull these lamps out and have them dropped on Todd Blanchard's desk for Burrillville Town Hall.

INSTALL (14) ON 3/2/09



RISE
ENGINEERING

Division of Thielsch Engineering, Inc
1341 Elmwood Avenue
Cranston, Rhode Island 02910

Burrillville Highway Garage
65 Union Ave
Burrillville, RI 02830
Richard Bernardo
(401) 568-9469

200

Proposal Summary

6/10/2008

Estimated Current Lighting Load (Wattage)	5,268	Watts
Estimated Proposed Lighting Load (Wattage)	3,568	Watts
Estimated Lighting Load Savings (Wattage)	1,700	Watts

Estimated Current Lighting Usage (kWh)	11,281	kWh
Estimated Proposed Lighting Usage (kWh)	7,718	kWh
Estimated Lighting Usage Savings (kWh)	3,563	kWh

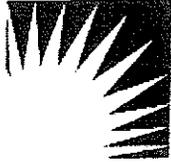
Estimated Current Annual Lighting Bill:	^{.14} kWh * 0.156	\$	1,760
Estimated Proposed Annual Lighting Bill:	kWh * 0.156	\$	1,204
Estimated Proposed Annual Lighting Bill Savings:		\$	556 \$498.82

Estimated Total Job Cost	\$	7,335.90
Estimated Utility Incentive	\$	(4,015.22)
Estimated Customer Net Cost	\$	3,320.68
Maintenance Savings	\$	132
Net Heating and AC Savings	\$	-
Simple Payback (Customer Share/Bill Savings):	Years =	4.8



Burrillville Highway Garage
 65 Union Ave
 Burrillville, RI 02830
 Richard Bernardg

Line Item	Room Name	Fixture Type	Existing Fixture Type					Proposed Fixture Type					SAVINGS				
			Fixture Qty	Existing Hours	Watts	KW	kWh	Proposed Fixture Type	Fixture Qty	Proposed Hours	Watts	kW	kWh	KW Saved	kWh Saved		
1	OFFICE	C1	10	2,340	140	1.4	3,276	4 LAMP 4' T-12	10	2,340	89	0.89	2,083	0.51	1,193		
2	GARAGE	A1	6	1,820	123	0.738	1,343	2 LAMP 8' T 12	6	1,820	89	0.534	972	0.20	371		
3	GARAGE	B1	2	1,820	70	0.14	255	2 LAMP 4' T-12	2	1,820	47	0.094	171	0.05	84		
4	GARAGE	A2	1	1,820	140	0.14	255	4 LAMP 4' T-12	1	1,820	89	0.089	162	0.05	93		
5	GARAGE	A3	3	1,820	123	0.369	672	2 LAMP 8' T 12	3	1,820	89	0.267	486	0.10	186		
6	LUNCH ROOM	I1	3	1,040	60	0.18	187	60 WATT INCANDESCENT	3	1,040	15	0.045	47	0.14	140		
7	REST ROOM	B2	1	1,040	70	0.07	73	2 LAMP 4' T-12	1	1,040	47	0.047	49	0.02	24		
8	COMPRESSOR ROOM	NR	0	0	0	0	0	T8 EXISTING	0	0	0	0	0.00	0			
9	SERVICE BAY / STORAGE	A1	8	2,340	123	0.984	2,303	2 LAMP 8' T 12	8	2,340	89	0.712	1,666	0.27	636		
10	REPAIR BAY	A1	9	2,340	123	1.107	2,590	2 LAMP 8' T 12	9	2,340	89	0.801	1,874	0.31	716		
11	REPAIR BAY	C1	1	2,340	140	0.14	328	4 LAMP 4' T-12	1	2,340	89	0.089	208	0.05	119		
TOTALS			44			5,268	11,281		44			3,568	7,717.84	1.70	3,563		



RISE Division of Thielsch Engineering, Inc
 1341 Elmwood Avenue
ENGINEERING Cranston, Rhode Island 02910

CONTRACT

This contract is entered into between RISE Engineering
 and Customer for work as described below:

DATE	June 11, 2008
CUSTOMER	Burrillville Highway Department
ATTENTION	Richard Bernardo
TELEPHONE	401-568-4440
STREET	65 Union Ave
CITY, STATE AND ZIP CODE	Burrillville, RI 02830

RISE Engineering agrees to furnish and install Energy Efficient lighting as described in the Proposal Summary Dated June 10, 2008. This Proposal includes Installation and Electrical Permit Fee.

Total installed project cost:	\$7,335.90
Incentive:	\$4,015.22
Customer Net Cost	\$3,320.68

1. Upon final inspection and approval by RISE ENGINEERING and Customer, Customer agrees to remit amount due in Full. Interest of 1% will be charged monthly on any unpaid balance after 30 days.
2. Any defect in materials, design, or installation found within one (1) year of installation date will be remedied without charge and within a reasonable period of time.
3. All work to be completed in a workmanlike manner according to standard practices.
4. Contract cost includes any permit(s) required by law for this installation. Prior to, or during installation, RISE Engineering (at its sole discretion) may choose not to proceed further with the installation for reasons relative to Safety or discovery of unforeseen conditions
5. Any change from the above specifications involving extra costs will be executed only on written orders, and will become an extra charge over and above the contract amount.
6. In the absence of alternate arrangements, disposal of disabled materials is the responsibility of the Customer.
7. This contract is subject to Utility company approval of any Utility program incentives incorporated herein. All applicable Utility program incentives shall be assigned to RISE ENGINEERING.
8. Pricing is valid for 30 days from above date.

NOTE: THIS CONTRACT MAY BE WITHDRAWN BY
 US IF NOT EXECUTED WITHIN 30 DAYS.

AUTHORIZED SIGNATURE _____

DATE _____

Acceptance of Contract – The above prices, Specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payments will be made as outlined above.

DATE OF ACCEPTANCE _____

SIGNATURE _____

1042 & 1084 series

1084 kits include (2) 1042 kits to convert 8' fixture

Standard Applications

- Relamp or delamp 1' x 4' and 1' x 8' fixtures
- Enhance light levels on existing strip fixtures
- Substantial energy savings with excellent payback
- Light level flexibility
 - Material choice determines fixture efficiency
 - Ballast factor lamp lumen output
 - One, two and three lamp options
- Convert 8' lamps to 4' lamps
 - Energy Policy Act 1992
- Reduced lamp replacement cost

Features

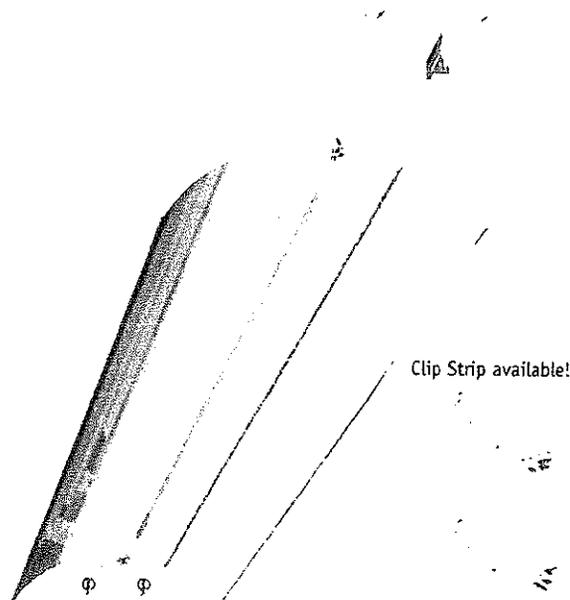
- No replacement necessary for up to 25 years
- Bends designed for maximum efficiency
- Reflector is UL Classified as a ballast cover
- Reversible brackets for lamp flexibility

Installation

- 4.0 thru 5.25" standard channel sizes
- Adjustable spread "Clip Strip" brackets available
- Quarter turn reflector for easy installation
- Tek screw slots for easy 48" bracket centering
- Rounded edge brackets for installer safety

Maintenance

- Tool less ballast access
- Easily cleaned



Energy Policy Act Eliminated in 1995
F96T12 HO double contact base
F96T12 slimline single pin base

Standard 1042 Kit includes:

- (1) 1040 reflector made from specified material/channel width
- (2) 1000 series brackets
- (2) Quarter turns
- (5) Tek screws
- (4) Twist lock shunted bi pin lampholders

Standard 1084 Kit includes:

- (2) 1040 reflectors made from specified material/channel width
- (4) 1000 series brackets
- (4) Quarter turns
- (10) Tek screws
- (8) Twist lock shunted bi pin lampholders

Lamps and electronic ballasts are also available.



1042 & 1084 specifications

Standard Dimensions

Reflector length:	48.5"
Reflector width:	10.25"
Reflector depth:	2.0"
Lamp spread:	2.5"
Channel size:	Cost-A-Mized

Cost-A-Mized or Custom Kits also available.

Shipping weight per 4' kit: 1.40 lbs.

Material Choices

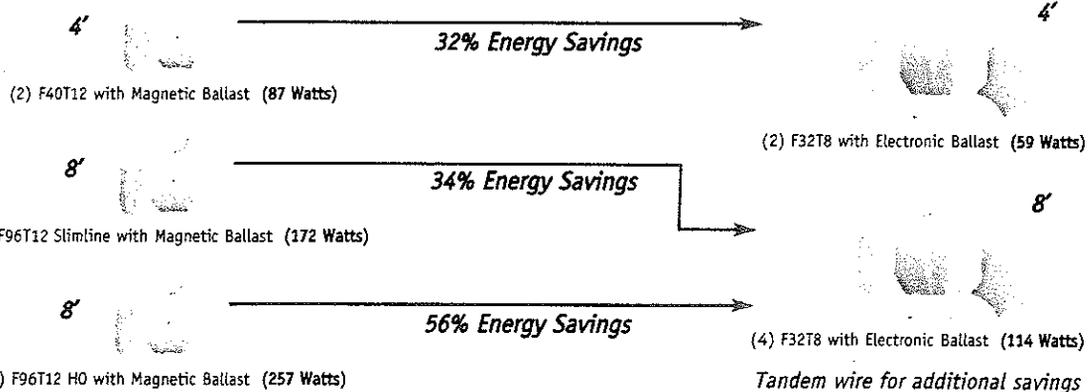
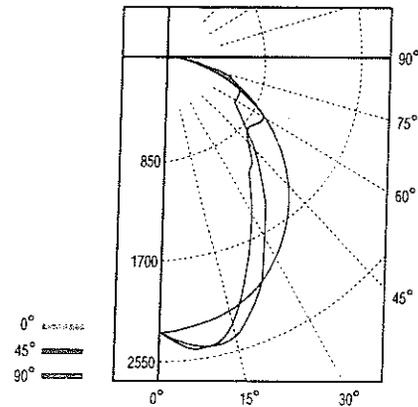
- 91% White Paint
- 87% Anodized Aluminum
- 95% Enhanced Aluminum
- 93% Micro Matte

Fixture Efficiency = 97.5%

Spacing Criteria: 0° = 1.3 90° = 1.0

Please call for a complete photometric report.

(1042/E/CS/T8/TL3 used for test)



Ordering Information

Sample number: 1084-E-CS-T8-TL7

(Lamps not included)

