



SURE BET POLICIES AND PROCEDURES 2009



RETROFIT AND NEW CONSTRUCTION

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P.1. PROGRAM BACKGROUND

KEMA is offering the Sure Bet Energy Efficiency Program (Sure Bet) to NV Energy customers. This program offers financial incentives for electric energy-efficiency measures to qualifying commercial applicants within the utility’s northern and southern service territories. This document covers the Policies and Procedures for the Sure Bet Program.

Funding for the Sure Bet Program is provided by NV Energy as approved by the Public Utilities Commission of Nevada (PUCN). Additionally, California applicants are eligible to participate in certain parts of the Program as approved by the California Public Utilities Commission (CPUC). The pilot program began in 2003 and the full program is currently authorized through calendar year 2009 in the southern service territory and 2010 in the northern service territory. The Policies and Procedures contained herein apply only to the 2009 Program.

This document is intended to convey the rules, policies and procedures that govern program administration and applicants participation.

P.2. PROGRAM OVERVIEW

An overview of the various program offerings is summarized below. The sections that follow provide detailed information on the actual measures and specific program details related to each of the various offerings.

P.2.1 Commercial Incentives (Retrofit)

Prescriptive Incentives are available for electric energy efficiency equipment upgrades and improvements including lighting, cooling, commercial kitchens and refrigeration and miscellaneous measures. Incentives are provided for qualified equipment commonly installed in a retrofit or equipment replacement.

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Custom Incentives are available to applicants for qualified retrofit and equipment replacement electric energy saving measures not included in the list of qualifying prescriptive measures.

P.2.2 New Construction

Prescriptive Incentives are available for electric energy efficient equipment installations including lighting controls (occupancy sensors and dimmers only), cooling and commercial kitchens/refrigeration and other miscellaneous measures. Incentives are provided for qualified equipment commonly installed in a major renovation or new construction project that exceeds specified minimum efficiencies.

Lighting Density Incentives are available for facilities documenting a lighting power density at least 10% lower than the density required under the International Energy Conservation Code 2006 version (IECC 2006) standards on a whole building using a building area type approach.

Performance-Based Incentives are available for major renovation and new construction projects or qualifying equipment that is not included in the list of qualified prescriptive measures.

LEED Bonus - A \$200 bonus is available for projects that achieve LEED certification.

Application forms for all programs are available on the Sure Bet website (<http://www.nvenergy.com/surebet/>). The appropriate Prescriptive or Custom Retrofit application should be used for equipment replacement and retrofit projects. The applicable section(s) of the New Construction application should be used for all new construction, major renovation or building addition projects.

P.3 PROGRAM EFFECTIVE DATES

Sure Bet energy efficiency incentives are offered on a **first-come, first-served** basis until approved funds are exhausted or December 1, 2009, whichever comes first. The effective dates of the Sure Bet Program and application submittal requirements are as follows:

- 2009 Sure Bet Program incentives are available for eligible energy efficiency projects completed after January 1, 2009 and before December 1, 2009 (the program year);
- Pre-notification Application forms shall be submitted to Sure Bet (postmarked) no later than November 1, 2009;
- **All 2009 Sure Bet projects shall be completed and Requests for Payment submitted no later than December 1, 2009.**

P.4 APPLICANT ELIGIBILITY

The following rules pertain to applicant eligibility for the Sure Bet Program:

- This program is available to existing or new nonresidential NV Energy applicants;

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- Non-customer applicants are also eligible for an incentive in those cases where the applicant owns the equipment. All such applications require the approval of the program manager;
- For each facility/campus, there shall be at least one meter that is on an eligible rate schedule or (in the case of New Construction projects) will be an eligible meter once the project is complete;
- **Eligible** rate schedules are as follows:
 - Southern Territory: GS, OGS-TOU, LGS-1, OLGS-1, LGS-2, LGS-3, and LGS-X
 - Northern Territory: GS-1, GS-2, GS-2-TOU, OGS-1-TOU, OGS-2-TOU, GS-3, GS-4, IS-1, and IS-2; California Rates A-1, A-2, and A-3;
- **Ineligible** rate schedules are as follows:
 - Any residential rate or standby service tariff
 - An exception is that churches, chapels other than marriage chapels, and other buildings used for religious worship owned and operated by some recognized religious society or corporation that are on the Northern Territory D-1 rate are also eligible.
 - Measures installed in any area of a facility/campus that is served by a residential meter are generally not eligible for funding under the Sure Bet Program. However residential energy efficiency measures may be eligible under the Utility's other efficiency programs. Sure Bet staff will refer applicants to the appropriate program representative when incentives are not available under the Sure Bet program.
 - Another exception to this rule is for mixed use facilities where the energy end use crosses between the commercial and residential parts of the facilities. On a case-by-case basis and with the written approval of the Utility's Senior Program Manager, projects for residential facilities may be approved for custom incentives providing there is no duplication by residential incentives or incentives offered under any of the NV Energy's other energy efficiency programs.

P.5 PROJECT REQUIREMENTS

Project requirements under the Sure Bet Program include the following:

- Projects shall involve a capital improvement that results in a permanent reduction in electrical energy usage (kWh);
- Capital improvements must be owned, leased-to-own, or on a minimum 5-year lease.
- Project savings shall result from the installation of permanent or fixed equipment and be sustainable for a period of five years (except for screw-in compact fluorescent lamps (CFLs));
- Projects that are covered under the Sure Bet Prescriptive Incentive Program are NOT eligible for a Custom incentive for the same measure (See Section P.2.1);
- Commercial (Retrofit) projects are eligible for incentives included under the Sure Bet Prescriptive Lighting, Cooling & Miscellaneous, Refrigeration, Commercial Kitchens and Custom Application;

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- New construction and major renovation projects are eligible for incentives under the Sure Bet New Construction Application;
- Projects that are **NOT** eligible for an incentive include the following:
 - Fuel switching (e.g. electric to gas);
 - Changes in operational and/or maintenance practices or simple control modifications not involving capital costs;
 - On-site electricity generation;
 - Projects involving gas-driven equipment in place of electric equipment (such as a chiller);
 - Projects that involve load-shifting (with no kWh savings);
 - Measures installed with funding from or under another utility incentive program;
 - Air Cooled air conditioning (A/C) Units and High Efficiency Motors (these are covered under a separate program element.) Exceptions to this are for packaged terminal air conditioners/heat pumps (PTAC/PTHP, see sections P.7.1.2 and P.9.4) and room AC units (sections P.7.1.2 and P.9.4), motors greater than 200 hp as well as electronically commutated motors for refrigeration (sections P.7.1.5 and P.9.6)
- **Portfolio Energy Credits/Conservation Credits:** In return for the consideration received through the Sure Bet Incentives, the applicant acknowledges that the energy efficiency credits that may result from the energy efficiency measures for which the incentive is paid inures to the benefit of NV Energy for compliance with the State of Nevada's renewable energy portfolio standard. Credits referenced here refer to the Portfolio Energy Credits authorized under the Renewable Energy Act in the Nevada Revised Statutes, chapter 704, sections 7801 through 7828 (NRS 704.7801-7828). Owners still retain ownership of environmental credits, other tax benefits, or other credits not specifically created under NRS 704.7801 - 7828.
- Any measures installed at a facility or campus shall be sustainable and provide 100% of the energy benefits as stated in the application for a period of five (5) years or for the life of the product, whichever is less, except for compact fluorescent lamps. If the applicant ceases to be a distribution customer of NV Energy or removes the equipment or systems at any time during the 5 year period, the applicant may be required to return a prorated amount of incentive funds to NV Energy based on the actual period of time in which the applicant had provided the related energy benefits as an electric customer of NV Energy.

P.6 INCENTIVE LIMITS

Incentive funds have tiered limits in order to encourage equitable distribution of the funds among utility applicants.

P.6.1 Applicant Limits

The total incentive amount will be tiered in the following way:

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- The program will pay 100% of the calculated value of eligible incentives up to \$100,000 per calendar year per applicant;
- 50% of the eligible value of incentives from \$100,001 to \$500,000;
- 20% of the eligible value of incentives from \$500,001 to \$1,000,000;
- 10% of the eligible value of incentives above \$1,000,001.

The tiered incentive limits are based on actual payments per applicant, **and also apply when payments for some or all projects applied for are being paid to one or more contractors.** For the purposes of the tier calculation, “Applicant” is defined as a business entity that is covered by a unique Federal tax ID number.

These limits are applied separately for retrofit projects and new construction projects; they are also applied separately for each service territory, i.e., a separate limit is available for the Southern Service Territory, the Northern Service Territory, and the California Service Territory.

P.6.2 Project Incentive Limits

In addition to the tier limitations given above, incentives are limited by the fully documented incremental project cost to the owner, including labor and materials.

P.7 COMMERCIAL INCENTIVE (RETROFIT) PROGRAM INCENTIVES

The Sure Bet program offers incentives for energy efficiency measures under **Prescriptive** and **Custom** Measures.

- **Prescriptive Measures** are measures for relatively standard items with generally well known impacts. Incentives are paid on based on the quantity, size and efficiency of the equipment. Prescriptive measures are applied for under the application for Lighting, Cooling & Miscellaneous, Refrigeration, and Commercial Kitchen Equipment.
- **Custom Measures** include most measures that reduce electric energy use that are not included in the prescriptive application. Custom measure incentives are paid based on the energy (annual kWh) savings. Incentive amounts are described in more detail below.

Measures that are covered by the Sure Bet Prescriptive application are NOT eligible for an incentive under the Sure Bet Custom application. **For prescriptive applications with energy savings value expected to exceed 750,000 kWh, a pre-inspection is required and the actual site-specific savings will need to be calculated.** The Sure Bet Team will work with applicants in these instances to complete this requirement. The incentive amount, however, will still be calculated at the prescriptive rate.

Incentives for air cooled AC units and high efficiency motors are not available to retail applicants; incentives for this equipment are paid to the equipment distributor through the “Upstream Incentive” program element (see the definition of “Upstream Incentive” in Section P.14.)

P.7.1 Prescriptive Incentives

The Sure Bet Commercial Incentive Program offers Prescriptive incentives for improvements in the following categories:

P.7.1.1 Prescriptive – Lighting

An incentive is paid for the replacement or permanent removal of common lamp types. Incentives are paid on a per lamp basis, except for the hardwired compact fluorescent fixtures and high bay T5s/T8s (paid on a per fixture basis), LED exit signs (paid on a per unit basis) and occupancy sensors (paid on a per sensor basis). Detailed specifications are provided in Sections P.8.1-P.8.12.

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Table 7-1
Prescriptive Lighting Incentives

Prescriptive Lighting Measures	
Equipment Type	Incentive/Unit
Replace T12 magnetic ballast with T8/T5 electronic ballast fixtures (per lamp)	
2-foot lamp	\$4.00
3-foot lamp	\$5.00
4-foot lamp	\$5.00
8-foot lamp	\$4.00
Replace HID fixture with T8/T5 fixture (per watt reduced; max \$100/fixture)	
New T8/T5 Fixture	\$0.35
De-lamping (per T-12 lamp)	
2-foot lamp	\$4.00
3-foot lamp	\$4.00
4-foot lamp	\$6.00
8-foot lamp	\$9.00
High Performance 4-foot T8	
T-12 to HP 4 Ft T8	\$7.00
4-foot lamp only	\$1.00
Screw-in Compact Fluorescent Lamps (per lamp)*	
Up to 14 watts	\$2.00
15-26 watts	\$2.00
27-38 watts	\$3.00
Hardwired Fluorescent Fixtures (per fixture)	
Up to 14 watts	\$9.00
15-27 watts	\$11.00
28-65 watts	\$12.50
66-90 watts	\$18.00
> 90 watts	\$22.50
Cold Cathode (per lamp)	
<= 8 watts	\$3
Exit Signs (per unit)	
LED or Electroluminescent	\$22.00
Traffic Signals (per lamp)	
LED Signal - Red	\$35.00
LED Signal - Green	\$25.00
LED Signal - Yellow	\$2.00
LED Signal - Pedestrian	\$15.00
Occupancy Sensors (per sensor)	
Wall Box	\$12.00
Wall or Ceiling Mount	\$30.00
High Bay for T8/T5 fixtures	\$20.00

*Hotel/Motel guest rooms shall be listed separately from other non-guest room applications.

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P.7.1.2 Prescriptive – Cooling & Miscellaneous

Installation of high efficiency water or evaporatively cooled split system or single packaged units, Packaged Terminal Air Conditioners (PTAC), room air conditioning units, and Variable Speed Drives (VSDs) for heating, ventilation, and air conditioning (HVAC) fans and pumps are eligible for incentives. Reflective window film, which can decrease the cooling load of a facility, programmable thermostats, and hotel HVAC occupancy sensors are also eligible as prescriptive cooling measures. Escalator motor controllers and pool/spa variable speed pumping are eligible as prescriptive miscellaneous measures. Detailed product specifications are discussed in Sections P.8.13-P.8.21. Cooling equipment shall meet the minimum qualifying efficiency levels as shown in the Qualifying Efficiency column of Table 7-2.

Table 7-2
Prescriptive Cooling Incentives

Equipment Type	Size Category	Qualifying Efficiency*	South Equipment Incentive** (per ton***)	South Efficiency Incentive** (per unit Eff. over Qual. Eff. per ton***)	North Equipment Incentive** (per ton***)	North Efficiency Incentive** (per unit Eff. over Qual. Eff. per ton***)
Water Cooled Units (Split System and Single Package Units)	All Sizes	14.0 EER	\$25.00	\$10.00	\$15.00	\$6.00
Packaged Terminal Units (PTAC/HP)	All Sizes	20% above Federal Minimum****	\$50.00	\$20.00	\$35.00	\$15.00
Room Air Conditioners	All Sizes	10 EER	\$35.00	\$20.00	\$25.00	\$15.00
Programmable (Setback) Thermostats	NA	NA	\$25.00 per Unit	NA	\$25.00 per Unit	NA
Window Film	NA	NA	\$0.70 per Square Foot	NA	\$0.50 per Square Foot	NA
Hotel HVAC Occupancy Sensor	NA	NA	\$75.00 per Guest Room	NA	\$55.00 per Guest Room	NA
VSD on fans and pumps	All Sizes	NA	\$60.00 per HP	NA	\$45.00 per HP	NA

* EER = Energy Efficiency Ratio

** South incentives are for measures installed in the Southern service territory, North incentives are for measures installed in the Northern service territory (see Section P.14)

***1 Ton = 12,000 Btuh (or Btu/hr)

****See specifications in Section P.8.14 for efficiency requirements

For water cooled units, packaged terminal units, and room air conditioners, the total incentive is determined by two components – an equipment incentive and an efficiency incentive. Both the

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equipment and efficiency incentives are applied per ton of cooling installed. The equipment qualifies for an equipment incentive if the qualifying efficiency is met. In addition, the efficiency incentive is added on a prorated basis if the equipment exceeds the minimum qualifying efficiency for the equipment size category. The measure cooling incentive is calculated as follows:

$$\text{Incentive} = \{\text{Equipment Incentive} + \text{Efficiency Incentive} * (\text{EER}_{\text{new}} - \text{EER}_{\text{min}})\} * \text{tons}$$

A Southern applicant installs an 11 EER 6,000 Btuh (Btu/hr) room air conditioner, then the following steps are taken to calculate the Sure Bet incentive:

1. What is the qualifying efficiency for this unit?
 - The qualifying efficiency for this equipment type is a minimum of 10 EER.
2. Calculate the tons
 - Divide equipment rated output in Btuh by 12,000 Btuh/ton
 - This unit is 6,000 Btuh/12,000Btuh/ton = 0.5 tons.
3. Calculate the rebate as follows:

$$\begin{aligned} \text{Incentive} &= \{\$35/\text{ton}_{\text{Equip. Incen.}} + \$20/\text{ton}_{\text{Eff. Incen.}} * (11 \text{ EER}_{\text{new}} - 10 \text{ EER}_{\text{min}})\} * 0.5 \text{ tons} \\ &= \$27.50 \end{aligned}$$

All EER values shall be rated according to ARI standards at 95°F outdoor dry-bulb temperature.

P.7.1.3 Escalator Motor Controller

The Escalator Motor Controller (EMC) is a device used on escalators in hotels, casinos, shopping malls and other commercial facilities and on people movers typically seen in airports. This technology is designed to provide dynamic voltage damping control on AC induction motors and supply just the amount needed to maintain rated speed and torque for a particular load. Reducing the voltage applied to motors operating at less than full load reduces internal iron and copper losses, and improves the motor operating efficiency. Incentive is available for qualifying controllers applied to motors ranging from 10HP to 40HP. The requirements and specifications for this measure are covered in detail in Section P.8.20.

Table 7-3
Escalator Motor Controller Incentive

Escalator Motor Controller Incentive	
Equipment Type	Incentive/Controlled HP
Escalator Motor Controller (EMC)	\$20

P.7.1.4 Commercial Pool/Spa Variable Speed Pumping

Incentives are paid for installation of programmable variable-speed or multiple-speed systems that vary swimming pool and spa pump speed to minimum permitted flow rates resulting in a reduction in pumping power. Incentives are based on the horsepower of the pump that is replaced or the new pump, **whichever is smaller**. The base incentive assumes continuous operation. If the base pump system does not operate continuously, the incentive is also reduced proportionally as described in Section P.8.21. Additional requirements and specifications for this measure are covered in detail in Section P.8.21.

Table 7-4
Commercial Pool Variable and Multi-Speed Incentive

Commercial Pool Pump Incentive	
Equipment Type	Incentive/Controlled HP
VFD Speed and Scheduling Control	\$150
Multi-Speed and Scheduling Control	\$100

P.7.1.5 Prescriptive – Commercial Kitchens / Refrigeration

- Incentives are paid for common methods of reducing energy usage in commercial kitchens and refrigeration. These measures are typically implemented in restaurants and grocery stores, but may be applicable in other situations. The incentives are shown in 3 tables, Table 7-5 shows the incentives for high efficiency ice makers, Table 7-6 shows the incentives for Efficient Refrigerators and Freezers, and Table 7-7 shows the incentives for various other commercial kitchen/refrigeration measures. The specifications for these measures are provided in Sections P.8.22-P.8.38.

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Table 7-5
Prescriptive Incentives-High Efficiency Ice Makers

Commercial Kitchen Measures-High Efficiency Ice Makers		
Size (Lbs/Day)	Unit	Incentive/Unit
CEE Tier 2		
< 300	Machine	\$50
300-500	Machine	\$75
500-1000	Machine	\$125
1,000-1,500	Machine	\$200
>1,500	Machine	\$250
CEE Tier 3		
< 300	Machine	\$100
300-500	Machine	\$150
500-1000	Machine	\$250
1,000-1,500	Machine	\$400
>1,500	Machine	\$500

Table 7-6
Prescriptive Incentives-Efficient Refrigerators/Freezers

Commercial Kitchen Measures- Efficient Refrigerators/Freezers		
CEE Tier II		
Type / Size (Cubic Feet)	Unit	Incentive/Unit
Solid Door		
Refrigerator, <19	Refrigerator	\$75
Refrigerator, 19-30	Refrigerator	\$100
Refrigerator, 31-60	Refrigerator	\$150
Refrigerator, 61-90	Refrigerator	\$225
Freezer, <19	Freezer	\$100
Freezer, 19-30	Freezer	\$200
Freezer, 31-60	Freezer	\$325
Freezer, 61-90	Freezer	\$500
Glass Door		
Refrigerator, <19	Refrigerator	\$75
Refrigerator, 19-30	Refrigerator	\$100
Refrigerator, 31-60	Refrigerator	\$125
Refrigerator, 61-90	Refrigerator	\$150

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Table 7-7
Prescriptive Commercial Kitchen and Refrigeration Miscellaneous Incentives

Commercial Kitchen and Refrigeration Measures- Miscellaneous		
Measure	Unit	Incentive/Unit
HE Fryers	Vat	\$200
Large Vat Fryers	Vat	\$200
HE Griddles	Griddle	\$300
Convection Ovens	Oven	\$350
Combination Ovens	Oven	\$1,000
Steam Cookers	Steamer	\$750
HE Holding Cabinets, Full Size	Cabinet	\$300
HE Holding Cabinets, 3/4 Size	Cabinet	\$250
HE Holding Cabinets, Half Size	Cabinet	\$200
Ventilation Control - Retrofit	HP	\$350
Ventilation Control - New Hood	HP	\$300
Auto Door Closers-Freezers	Door	\$50
Auto Door Closers-Coolers	Door	\$40
Door Gaskets	Linear Foot	\$4
Strip Curtains on Walk-ins	Square Foot	\$3
Anti-Sweat Heater Controls	Door	\$40
Night Covers	Per Linear Foot	\$8
Vending Machine Controls	Per Controller	\$90
EC Motors: Walk-In Boxes	Per Motor	\$40
EC Motors: Refrigerated Cases	Per Motor	\$30

P.7.2 Custom Incentives

The Sure Bet Program offers Custom incentives for those eligible improvements not included under the Sure Bet Prescriptive measures that result in a reduction of electrical energy usage. The improvements shall:

- involve a capital investment
- have savings that are sustainable for at least 5 years
- produce a reduction in energy usage while the system provides the same basic function

A simple shutdown of equipment is not eligible for an incentive.

Examples of Custom measures include but are not limited to the following:

- Economizers – Air-side or water-side;

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- High Intensity Discharge (HID) or fluorescent light fixture improvements not covered under the prescriptive measures;
- VSDs on motors serving variable-capacity loads that are not HVAC pumps or fans or pool/spa pumps which are a Prescriptive cooling measure;
- Improved Automatic Controls (time switches, sensors, etc.);
- Day lighting (combined with appropriate lighting controls);
- Building envelope improvements (solar screens, cool roofs etc.);
- Variable speed drives for chillers;
- Components of LEED Existing Building (EB) Projects.

Measures that involve switching from one form of energy to another and renewable energy projects are not eligible.

Incentives for Custom measures are based on the electrical energy savings that result from the energy efficiency measure installation and are calculated based on the estimated first year's savings. The applicant shall provide sufficient back up descriptive information, equipment performance data, operating assumptions, measurements and calculations to support the energy savings estimates. Further information is given in Section P.8.39.

The incentives are shown in Table 7-10, and are based on the time of use periods in which the savings will be realized. The periods are On Peak and Non On-Peak as defined in Section P-14.

Table 7-10
Custom Incentives

Custom Incentives	
Annual kWh On-peak	Annual kWh Non On-Peak
\$0.10	\$0.05

Measures that are eligible for Prescriptive incentives may **NOT** be applied for through a Sure Bet Custom Application.

P.8 RETROFIT EQUIPMENT SPECIFICATIONS

LIGHTING

P.8.1 Fluorescent Fixture Upgrades

This measure shall involve a T12 with magnetic ballast retrofit to T8/T5 with electronic ballast.

The T12 to T8/T5 retrofit shall result in lamps that have a color rendering index (CRI) greater than or equal to 70 and electronic ballasts. The electronic ballast shall be high frequency (>20 kHz), UL listed, and warranted against defects for 5 years. Ballasts shall have a power factor

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greater than or equal to 0.90. Ballasts for 4-foot lamps shall have total harmonic discharge (THD) $\leq 20\%$ at full light output. For 2-, 3-, and 8-foot lamps, ballasts shall have THD $\leq 32\%$ at full light output to be eligible. Retrofit projects where the existing lamps are T12HO or where the new lamps will be T5HO are not eligible for this prescriptive measure and shall be applied for as a custom measure.

Note: PCB ballasts and lamps containing hazardous materials shall be disposed of properly. The Sure Bet staff may request documentation of proper disposal.

P.8.2 HID to T5/T8 (High Bay)

This incentive applies to new high bay fixtures, using T5HO or T8 lamps. The retrofit shall replace existing incandescent or high intensity discharge (HID) fixtures of any wattage in interior high bay installations (over 15'). All new fixtures shall have a reflector or be installed in a fixture with a minimum of 90% reflectivity. The incentive is based on the total wattage reduced, the wattage of the existing fixtures multiplied by the number of existing fixtures minus the wattage of the new fixtures times the number of new fixtures. The maximum allowed incentive is \$100/new fixture. Please contact the Sure Bet team to determine if a pre and post inspection is required to verify existing fixture wattages.

P.8.3 De-lamping

Prescriptive de-lamping is only eligible for T12 to T8/T5 retrofits, as well as for T12 to HP T8 retrofits (see Section P.8.4), and shall involve the permanent removal of existing lamps in combination with the replacement of remaining lamps with high-efficiency types. This includes the permanent removal of unused lamps, tombstones, and ballasts. In some cases, the applicant and/or contractor may find that the use of reflectors in combination with de-lamping is needed to maintain adequate lighting levels. Applications that include savings due to **de-lamping shall have a pre-inspection by Sure Bet staff prior to beginning the work.** All other de-lamping should be requested on a custom application.

P.8.4 T-12 Conversion to High Performance 4-foot T8

Incentives are available for replacing 4-foot T-12 lamps and magnetic ballasts with high performance T8 lamps and electronic ballasts. The lamps shall be reduced wattage in accordance with the Consortium for Energy Efficiency (CEE) specification (www.cee1.org). The nominal wattage shall be 28W (≥ 2585 Lumens) or 25W (≥ 2400 Lumens) to qualify. The mean system efficacy shall be ≥ 90 mean lumens per watt (MLPW), CRI ≥ 80 , and lumen maintenance equal to or greater than 94%. A manufacturer's specification sheet shall accompany the application.

P.8.5 High Performance 4-foot T8 (Lamps Only)

Incentives are available for replacing regular T8 lamps with high performance T8 lamps when an electronic ballast is already present. The lamps shall be reduced wattage in accordance with

the Consortium for Energy Efficiency (CEE) specification (www.cee1.org). The nominal wattage shall be 28W (≥ 2585 lumens) or 25W (≥ 2400 lumens) to qualify. The mean system efficacy shall be ≥ 90 MLPW, CRI ≥ 80 , and lumen maintenance at 94%. This can be done on a per lamp basis and ballast replacement is not necessary. A manufacturer's specification sheet shall accompany the application. A pre-inspection is required for this measure.

P.8.6 Screw-In Compact Fluorescent Lamps (CFLs)

This measure applies to screw-in CFLs that are **replacing incandescent lamps**. The lamp/ballast configuration shall have an efficacy (lumens per watt, or LPW) greater than or equal to 40 (all ENERGY STAR[®]-labeled CFLs qualify). Electronic ballasts are required for lamps greater than or equal to 18 W. Installations where the CFL wattage is greater than 38 watts shall use the custom application to apply for an incentive.

The application form requires that separate quantities to be given for guest room (hotels/motels) installations and for all other installations. The incentive paid is the same in either case, but this information is vital for the Sure Bet Program to properly quantify the energy savings.

CFLs that are purchased at a retail location where an NV Energy buy-down has reduced the cost of the lamps are not eligible for an incentive through the Sure Bet Program.

P.8.7 Hold for future lighting measure

P.8.8 Hardwired Compact Fluorescent Lamps (CFLs)

This measure applies to hardwired CFL fixtures and is applicable to both incandescent or mercury vapor fixture replacement. Only complete, new fixtures and modular hardwired retrofits, where the lamp is only removable from the ballast with socket removal, qualify. The lamp/ballast configuration shall have an efficacy greater than or equal to 40 lumens per watt (LPW) (all ENERGY STAR[®]-labeled CFLs qualify). Electronic ballasts are required for lamps greater than or equal to 18 W.

P.8.9 Cold Cathode CFL

This measure applies to installation of cold cathode type fluorescent lamps. Shall replace incandescent lamps of greater than or equal to 10 watts and less than or equal to 40 watts. Cold cathode lamps may be medium (Edison) or candelabra base. Product shall be rated for at least 18,000 average life hours. Cold cathode CFLs that replace incandescent lamps greater than 40W shall use the custom application to apply for an incentive.

P.8.10 Exit Signs

This measure applies to high efficiency exit signs replacing an existing incandescent exit sign. Electroluminescent and light emitting diode (LED) exit signs are eligible under this category.

Non-electrified and remote exit signs are not eligible. All new or retrofit exit signs shall be UL- or ETL-listed, have a minimum lifetime of 10 years, and have an input wattage \leq 5 watts.

P.8.11 Occupancy Sensors

Only passive infrared and/or ultrasonic detectors are eligible. Wallbox and wall- or ceiling-mounted sensors shall be hard-wired and control interior lighting fixtures. Wallbox lighting occupancy sensors, defined as self-contained (no exterior switchpack or relay) units designed to replace a standard wall switch, shall not control more than 500 watts. Wall- or ceiling-mounted remote sensors shall not control more than 1000 watts. Sensors for high bay fluorescent fixtures are also eligible; they shall control fixtures eligible under the "HID to T5/T8" category. It is recommended that programmable-start ballasts be used whenever occupancy sensors are being employed.

P.8.12 Traffic Signals

LED traffic signals shall replace or retrofit an existing incandescent traffic signal. Lights shall have a maximum LED module wattage of 35. Lights shall be hardwired, with the exception of pedestrian hand signals. Incentives are not available for spare lights or new signals.

COOLING & MISCELLANEOUS

P.8.13 Water-Cooled Air Conditioning Units

This measure applies to the installation of new air conditioning or heat pump units that are water or evaporatively cooled. All single packaged and split system cooling equipment is eligible for an incentive and shall meet Air-conditioning and Refrigeration Institute (ARI) standards, be UL listed, use a non ozone depleting refrigerant (e.g. HFC) or minimum ozone depleting refrigerant (e.g. HCFC). All equipment shall meet specified energy efficiency qualifications (listed in Section P.7.1.2); the rated efficiency, at full load for the entire system, shall be greater than or equal to the stated minimum. The minimum efficiencies are based on the Consortium for Energy Efficiency (CEE) Tier 1 requirements (www.cee1.org).

Swamp coolers are not eligible under this program.

P.8.14 Package Terminal Air Conditioning Units

Package terminal air conditioners and heat pumps are through-the-wall self-contained units¹ that are two tons (24,000 Btuh or less). These units cool small areas and are commonly used for individual rooms. Only units that are 20% above the federal minimum standard efficiency

¹ These units have a combination of heating and cooling assemblies intended for mounting through the wall. It includes refrigeration, outdoor louvers, forced ventilation, and may connect to external heating source or have electric resistance heating.

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(EER) qualify for the incentive. All EER values shall be rated at 95 °F outdoor dry-bulb temperature. Minimum requirements are shown in the Table 8-1.

Table 8-1
PTAC Minimum Efficiency Requirements

Capacity	Federal Minimum Efficiency (EER)	Sure Bet Minimum Efficiency (EER)
7,000 Btuh and below	8.88	10.66
7,000 – 15,000 Btuh	$10 - (0.16 \times \text{Btuh}/1000)$	$1.2 \times [10 - (0.16 \times \text{Btuh}/1000)]$
15,000 Btuh and above	7.6	9.12

P.8.15 Room Air Conditioners

Room air conditioning units are through-the-wall (or built-in) self-contained units that are two tons or less. These units cool small areas and are commonly used for individual rooms. The minimum efficiency for an incentive is an EER of 10, with an additional incentive for each EER point higher than 10. These units are with and without louvered sides, without reverse cycle (i.e., heating), and casement.

P.8.16 Programmable (Setback) Thermostats

ENERGY STAR[®]-labeled programmable thermostats are required when applying for an incentive to replace any non-programmable thermostat to automatically adjust the temperature. To meet ENERGY STAR[®] standards, they shall be capable of maintaining two separate programs (to address the different comfort needs of weekdays and weekends) and up to four temperature settings for each program. Thermostat must be programmed at the time of installation.

P.8.17 Window Film

Film shall have a minimum 5-year manufacturer's warranty (to be provided with application for payment). Rebates are not available for film on windows with a northern exposure². Film shall meet one of the following requirements:

- For clear, single-pane glass, the solar heat gain coefficient (SHGC) of the window film shall be less than 0.39;
- For clear, double-pane glass, the SHGC of the window film shall be less than 0.25;
- For applications that do not meet either of the above requirements, the film shall have an SHGC ≤ 0.47 and visible transmittance/solar heat gain coefficient (VT/SHGC) ratio > 1.3.

Specification and square footage installed of each film type and the side of building the film is installed shall be clearly documented on the invoice.

² Northern exposure is defined any direction +/- 45° of true North.

P.8.18 Hotel HVAC Occupancy Sensor

Incentives are available for sensors that control PTAC or heat pump units for individual hotel rooms. Sensors controlled by a front desk system are not eligible. Sensors shall be controlled by automatic occupancy detectors, and it is recommended that during unoccupied periods, the default setting for controlled units differ by at least 8 degree from the operating set point. The incentive is per guest room controlled, not per sensor; for multi-room suites the incentive is available per room controlled, if a sensor is installed in each room. Replacement or upgrades of existing occupancy-based controls are not eligible as a prescriptive incentive.

P.8.19 Variable Speed Drive on HVAC Fans and Pumps

This incentive is available for Variable Speed Drive (VSD) devices which are installed to serve active heating ventilating and air conditioning fans or pumps. The VSD shall be installed in association with controls capable of automatically varying the capacity of the driven equipment. The installation shall be shown to reduce the system energy use as compared to the pre-retrofit capacity control technology.

Permanent removal or disabling of any pre-existing throttling devices such as inlet vanes, bypass dampers, and throttling valves shall accompany the installation of the VSD. For instances where VSDs are installed on redundant/backup systems (such as secondary chilled water pumps) only active units are eligible for an incentive. Incentives will be approved only for equipment that can be reasonably demonstrated to operate more than 500 hours per year. VSDs for equipment that does not meet this criterion will not be eligible for incentives.

Incentives for VSDs that do not qualify under this measure (such as VSDs on specialty or process equipment) may be applied for under the custom application. Additionally, VSDs for commercial pool pumps are covered in section P.8.21.

P.8.20 Escalator Motor Controller

Escalator Motor Controllers (EMC) eligible for incentive are units that control electric escalator or people mover operation. This incentive is restricted to controllers that meet the following criteria:

- Applies only to electric escalator applications, including ascending and descending configurations and to horizontal people movers (such as typically seen in airports);
- Does not apply to baggage moving equipment or any other constant speed varying load situation; those can be applied for as a custom incentive;
- Shall install EMC device on three-phase, 480V AC induction motors, ranging in size from 10 HP to 40 HP;
- Installation of EMC device shall meet all applicable local, state, and federal codes;
- Cannot use in bypass mode.

To be eligible for this prescriptive measure, products/vendors shall be pre-qualified by the Sure Bet Team. Two products have met this pre-qualification as of the date of this document's publishing, they are:

- Power Efficiency Corporation (Power Genius™)
- Somar (Motorboss)

Contact the Sure Bet Team for an updated list of qualified products/vendors.

Other EMC vendors requesting their product be eligible for this incentive under the prescriptive program shall provide a written request; with documentation to prove the product meets the criteria listed above and shall provide the following:

- Written description and documentation showing that the device reduces actual kWh. The minimum savings required to be eligible is 352 kWh/HP annually;
- Letter by a nationally recognized testing lab demonstrating product safety certification;
- Letter stating that EMC device cannot void end use equipment manufacturer's warranty;

At the discretion of the Sure Bet Team submit to testing/monitoring to verify savings claims. This discretion will depend on the information (description and documentation) provided, so any testing of the device already performed should be submitted. If required, testing will involve having pre- and post- installation measurements completed on 1-3 projects. Cost of testing to become a qualified vendor will be incurred by the vendor.

P.8.21 Commercial Pool Pump Variable Speed and Multi Speed Control

Incentives will be paid for the replacement or conversion of existing single speed pump systems with variable-speed capability for controlling the flow rate of commercial pool/spa pumps, based on the following requirements:

- Applies to swimming pool or spa pump systems of all sizes. Non-pool pump systems such as decorative fountains, wells, will not be prescriptive. Incentives for these other pump types will be handled under the custom application.
- If the replacement system is larger in horsepower than the original system the replacement system shall be capable of being dialed back to match the flow of the original system; this capability must be activated.
- The replacement system shall have an operating automatic programmable scheduling and capacity control capability.
- The incentive applied for under the prescriptive measure applies to simple replacement of the pump system only. Additional savings or savings reductions may result from piping, filter or other system modifications. These impacts will be calculated separately. Added energy use will be deducted from or added to the prescriptive incentive through a separate custom application.

If the pump system does not operate 8,760 hours per year, the prescriptive incentive will be proportioned by the pre-retrofit hours of operation (e.g. if the pump is found to operate 6,000 hours per year, the incentive would be 6,000/8,760 of the prescriptive amount.) In the case of an intermittently operating spa booster pump, 1,500 hours will be used unless documentation is provided showing greater operating hours.

COMMERCIAL KITCHENS / REFRIGERATION

Incentives are offered for high efficiency commercial cooking and refrigeration equipment as described in the following sections. For commercial kitchen equipment such as ovens and fryers, only electric equipment qualifies for incentives. All equipment shall replace existing

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electric equipment or be new equipment. Replacement of gas equipment does not qualify for an incentive. The equipment must be owned, leased-to-own, or on a minimum 5-year lease.

Energy Star and CEE maintains a list of most qualifying products and specifications at www.energystar.gov/cfs or www.CEE1.org. To determine if non-Energy Star or non-CEE models meet the applicable ASTM standard, contact your manufacturer's representative.

P.8.22 High Efficiency Ice Makers

This specification covers machines generating 60 grams (2 oz.) or lighter ice cubes, as well as flaked, crushed and fragmented ice makers. Performance data is based on ARI Standard 810. Air-cooled machines (self contained, ice making heads, or remote condensing) or water-cooled machines with an independent and isolated compressor and ice formation on a closed-chilled fluid loop are eligible. The efficiency specifications for the two qualifying tiers are equivalent to ENERGY STAR® (CEE Tier II) or CEE Tier III. To qualify, the entire ARI tested Ice making system shall be purchased to qualify. Remote machines shall be purchased with qualifying remote condenser or remote condenser/compressor unit.

Visit www.ari.org for product information and testing procedures. Specifications are available at www.energystar.gov/cfs or www.cee1.org. The test method shall be in accordance with the Air-Conditioning and Refrigeration Institute (ARI) Standard 810.

P.8.23 Efficient Refrigerators/Freezers

The refrigeration system, cooler or freezer, shall be a new built-in (packaged) unit. Cases with remote refrigeration systems do not qualify as a prescriptive incentive. Applicants shall provide proof that the appliance meets the CEE Tier II energy-efficiency specifications using ASHRAE Standard 117-1992 (38°F +/- 2°F). These specifications are given in Table 8-2.

Table 8-2
Efficient Refrigerators/Freezers Energy Usage Specifications

Type	CEE Tier II Maximum Daily Energy Use
Solid Door Refrigerator	$\leq 0.06 * V + 1.22$ kWh/day
Solid Door Freezer	$\leq 0.28 * V + 0.97$ kWh/day
Glass Door Refrigerator	$\leq 0.086 * V + 2.39$ kWh/day

V = Volume in Cubic Feet

P.8.24 Vat/Large Vat Fryers

Incentives are offered for high efficiency vat/fryers subject to the following criteria. The commercial fryer shall have a tested heavy load (French fry for large vats) cooking energy efficiency of > 80% utilizing American Society for Testing and Materials (ASTM) Standard

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F1361 for commercial fryers and ASTM Standard F2144 for large vat fryers. Multiple vat configurations are paid per qualifying vat.

P.8.25 Griddles

The griddle shall meet or exceed a heavy load cooking energy efficiency of > 70% utilizing ASTM Standard F1275.

P.8.26 Convection Ovens

The oven shall meet or exceed a heavy load potato cooking energy efficiency of > 70% utilizing ASTM Standard F1496.

P.8.27 Combination Ovens

The oven shall meet or exceed a heavy load cooking energy efficiency of > 60% utilizing ASTM Standard F1639.

P.8.28 Steam Cookers

The commercial steam cooker shall meet ENERGY STAR specifications for energy efficiency or shall have a tested heavy load potato cooking energy efficiency of > 50% utilizing ASTM Standard F1484.

P.8.29 Holding Cabinets

This measure does not include cook and hold equipment. All measures shall be electric hot food holding cabinets that are fully insulated and have solid doors in full, three-quarter and half sizes respectively as listed in Table 8-3. Qualifying cabinets shall not exceed the maximum idle energy rate of 20 Watts per cubic foot in accordance with the ASTM Standard F2140 test method.

Table 8-3
Efficient Holding Cabinets Energy Usage Specifications

Cabinet Size	Qualifying Energy Rate
Full Size	Insulated with ER ≤0.4 kW
³ / ₄ Size	Insulated with ER ≤0.3 kW
¹ / ₂ Size	Insulated with ER ≤0.2 kW

Cook and hold equipment and units < ¹/₂ size may be eligible and should be applied for as a custom incentive.

P.8.30 Ventilation Control-Retrofit

This incentive applies towards the purchase and installation of a new commercial kitchen

exhaust hood control system installed in an existing dedicated commercial kitchen exhaust hood and make-up air system. The control system shall be used in conjunction with variable speed fan motor controls. Only pre-approved control systems (shown in Table 8-4 below) will qualify for an incentive. A description of the pre-approval process is also given below.

P.8.31 Ventilation Control-New Hood

This incentive applies towards the purchase and installation of a new commercial kitchen exhaust hood control system installed in a new dedicated commercial kitchen exhaust hood and make-up air system. The control system shall be used in conjunction with variable speed fan motor controls. Only pre-approved control systems (shown in Table 8-4 below) will qualify for an incentive. A description of the pre-approval process is also given below.

Table 8-4
Pre-Approved Ventilation Control Systems

Company Name (Website)	Brand Name	Installation Type
Melink (www.melinkcorp.com)	Intelli-Hood	Existing Hood Retrofit
	Intelli-Hood	New Hood

Contact the Sure Bet Team for an updated list of qualified products/vendors.

Ventilation control system vendors requesting to become pre-approved shall provide a written request which includes the following:

- Written description and documentation showing that the device reduces kWh. The minimum savings required to be eligible is 850 kWh/HP annually;
- Letter stating that the system cannot void end use equipment manufacturer's warranty.

At the discretion of the Sure Bet Team, submit to testing/monitoring to verify savings claims. This discretion will depend on the information (description and documentation) provided, so any testing of the device already performed by an independent third party recognized testing lab should be submitted. If required, testing will involve having pre- and post- installation measurements completed on 1-3 projects. Cost of testing to become a qualified vendor will be incurred by the vendor.

P.8.32 Auto Door Closers

The auto-closer should be applied to the main insulated opaque door of a walk-in cooler or freezer or the glass door of a reach-in cooler or freezer. For reach-ins the door shall have a minimum perimeter of 16 feet. The auto-closer shall be able to firmly close that door when it is within one inch of full closure.

P.8.33 Door Gaskets

Door gaskets shall be installed on an insulated opaque door of a walk-in or reach-in cooler or freezer or a reach-in glass door of a cooler or freezer to either replace a worn gasket or where no gasket currently exists. Replacement gaskets shall meet the manufacturer's installation specifications, specifically regarding dimensions, materials, attachment method, style, compression, and magnetism. Incentive is based on total door perimeter in linear feet.

P.8.34 Strip Curtains on Walk-in Coolers or Freezers

Applicant shall install new strip curtains or clear plastic swinging doors on doorways of walk-in boxes and refrigerated warehouses. This incentive is not available for display cases or replacing existing strip curtains. Incentive is based on square footage of doorway.

P.8.35 Anti-Sweat Heater Controls

Applicant shall install a device that senses the relative humidity in the air outside of the display case and reduces the cycle time or turns off the glass door (if applicable) and frame anti-sweat heaters at low humidity conditions. Technologies that turn off anti-sweat heater based on sensing condensation (on inner glass pane) also qualify.

P.8.36 Night Covers

Applicant shall install a cover on an otherwise open vertical or horizontal refrigerated case to decrease cooling load. Applicant should also consider using proper compressor capacity modulation mechanisms (such as VSD or an unloader). Incentive is based on linear frontage length of case.

P.8.37 Vending Machine Controls

The device eligible for this incentive shall be used for refrigerated vending machines that only contain non-perishable food items such as bottled and canned beverages. Controller shall include a passive infrared occupancy sensor to turn off fluorescent lighting and compressor when surrounding area is unoccupied for 15 minutes or longer. Control logic should periodically power up machine to maintain product temperature and for compressor protection.

P.8.38 Evaporative EC Fan Motor (Walk-ins or Refrigerated Cases)

This measure is applicable to the replacement of an existing standard-efficiency shaded-pole evaporator fan motor in refrigerated walk-in boxes or cases (coolers or freezers). The replacement unit shall be an Electronically Commutated Motor (ECM). An ECM is a brushless DC motor with an electronically controlled commutator that allows the motor to operate much more efficiently than the shaded-pole motors with an electro-mechanical commutator typically used in refrigeration applications. Permanent split-core (PSC) motors are not eligible for this incentive.

CUSTOM

P.8.39 Custom Measures

The Sure Bet staff will review each Sure Bet custom application. These measures will be reviewed based on (but not limited to) the following criteria: energy savings, cost, reliability, and measure life. Applicants shall provide the calculations documenting the estimated electrical

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energy (kWh) savings. The calculations and assumptions supporting the kWh impact estimates and the resulting incentive amount are subject to Sure Bet program staff review and approval. Pre-notification is **required** for all custom incentive applications. The Applicant shall provide sufficient information and calculations to estimate the energy impacts. Sure Bet staff engineers will work with applicants or their installing contractor or consultant to develop a methodology and to identify the information necessary to support the savings estimate and to verify the savings after installation. Guidelines for the documentation required are given in Appendix A for different project types. By providing as much of the info given in these guidelines as possible the timeframe for project approval will likely be reduced, as well as providing an opportunity to maximize the available incentive.

Measurement and verification activities, including power measurements or monitoring for a period of time prior to and after the measure is installed, may be required to document that the energy impacts are consistent with the pre-approved estimates. In some cases monitoring the electric energy use of the base case (pre-retrofit) system as well as the post-retrofit system may be required to establish the pre-retrofit energy and demand requirements. See Sure Bet custom application for more details.

The final incentive amount will be based on the final savings documented through the post-retrofit measurement review. This may be greater or less than the savings and/or incentive amount originally estimated in the Pre-notification estimate, and may also be limited by fund availability. Projects should result in a minimum annual savings of 2,000 kWh before submitting a custom application.

P.9 NEW CONSTRUCTION PROGRAM INCENTIVES

This section covers the policies and procedures for the Sure Bet New Construction (NC) Program. The NC Program differs from the Commercial Incentive Program in that the NC program is specifically designed for buildings that are being newly constructed or existing buildings that are undergoing major renovation or expansion. Retrofits specifically done for energy conservation should apply under the Commercial (Retrofit) Incentive Program. The intent of the program is to encourage energy efficiency in newly constructed areas or buildings at the time of construction. New construction incentives are subject to same incentive limitations stated in Section P.6.1.

Incentives for the New Construction Program are available in any of the three following methods which are described in detail below:

- Lighting Incentives (Prescriptive or Lighting Density as applicable);
- Prescriptive Measure Incentives (Non-lighting);
- Performance Based Incentives.

The New Construction Program is available for applicants that meet the requirements of Section P.4. A New Construction Project Completion Form should be submitted within 60 days after

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project completion (see Section P.11.2). Project completion is defined as occurring when the permanent electric meter is set. Requests received more than 60 days after project completion will be evaluated on a case by case basis and will require approval by the program manager.

P.9.1 New Construction Lighting Incentives

For New Construction, lighting incentives are available in two possible ways. For occupancy sensors and dimming systems, prescriptive incentives are available according to Table 9-1. For incentives related to the installed lighting fixtures, the Lighting Density Approach shall be used as discussed below.

P.9.2 New Construction – Prescriptive Lighting (Sensors & Dimming only)

See Section P.10.1 & P.10.2 for specifications of these measures.

Table 9-1
New Construction Prescriptive Lighting Incentives

Measure	Unit	Incentive per Unit
Remote Mounted Occupancy Sensor	Per Sensor	\$30.00
Wall Mounted Occupancy Sensors	Per Sensor	\$12.00
Day Light Dimming System	Per Connected Watt	\$0.10

P.9.3 New Construction – Lighting Density Approach

A new construction project is eligible for an incentive based on the lighting density (watts per square foot). To be eligible for the lighting density incentive, the total lighting wattage shall be at least 10% lower than the lighting wattage calculated under the International Energy Conservation Code (IECC) 2006 standard. The incentive is calculated based on **\$0.35 for each watt** below the wattage required under the IECC standard. There is a minimum limit for the allowed actual lighting density used for this calculation at 50% of the IECC required value. For situations where an applicant has installed a lighting density less than 50% of the IECC standard value, projects will be evaluated on a case by case basis to determine the incentive, and will use either the performance based approach (section P.9.8) or the lighting density approach; whichever approach is used it will be for the entire incentive related to installed lighting fixtures.

A building using this approach is not eligible to use a performance based approach (discussed below) that considers the lighting in any manner.

Incentives will be paid **only on the square footage of the building where the lighting installation is completed and is ready for occupancy.** If a portion of a building is not completed such that final lighting installation is not complete and the space ready for occupancy then that portion is not eligible for an incentive. Portions of the building can become eligible for

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an incentive at the time they are completed and ready for occupancy, even if it is in a different year from which the building was constructed and/or the meter was set.

The calculation of actual lighting density, either from Comcheck or some other method, shall accompany the application.

As defined by IECC 2006, this incentive can only be applied using a Building Area Type Approach (in prior versions of IECC either a Whole Building Approach or a Space by Space Approach could be used). This Building Area Type Approach is very similar to the former "Space by Space" approach, but no longer referred to in that way by IECC. The required densities for different building area types are shown in the table below.

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Table 9- 2
Maximum Qualifying Lighting Power Densities

Interior Lighting Power Densities	IECC Standard	Sure Bet Design Maximum
Building Area Type ^a	Watts/Sq Ft	Watts/Sq Ft
Automotive Facility	0.90	0.81
Convention Center	1.20	1.08
Courthouse	1.20	1.08
Dining: Bar Lounge/Leisure	1.30	1.17
Dining: Cafeteria/Fast Food	1.40	1.26
Dining: Family	1.60	1.44
Dormitory	1.00	0.90
Exercise Center	1.00	0.90
Gymnasium	1.10	0.99
Healthcare-Clinic	1.00	0.90
Hospital	1.20	1.08
Hotel	1.00	0.90
Library	1.30	1.17
Manufacturing Facility	1.30	1.17
Motel	1.00	0.90
Motion Picture Theater	1.20	1.08
Multi-family	0.70	0.63
Museum	1.10	0.99
Office	1.00	0.90
Parking Garage	0.30	0.27
Penitentiary	1.00	0.90
Performing Arts Theaters	1.60	1.44
Police/Fire Station	1.00	0.90
Post Office	1.10	0.99
Religious Building	1.30	1.17
Restaurant	1.60	1.44
Retail	1.50	1.35
School/University	1.20	1.08
Sports Arena	1.10	0.99
Town Hall	1.10	0.99
Transportation	1.00	0.90
Warehouse	0.80	0.72
Workshop	1.4	1.26

^aIn cases where both a general building area type and a more specific building area type are listed, the more specific building area type shall apply.

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For example, a building contains the following area types

- Museum: 40,000 ft²
- Retail: 10,000 ft²
- Cafeteria: 10,000 ft²

If the installed watts for this building will be 65,000 then the following steps are taken to calculate the Sure Bet incentive:

1. What is the Sure Bet Design Maximum for this application?
 - Sum the individual (lighting power density X area square footage) values for Total Power Allowance
 - Museum: 40,000 ft² at 0.99 w/ft² = 39,600 w
 - Cafeteria: 10,000 ft² at 1.26 w/ft² = 12,600 w
 - Retail: 10,000 ft² at 1.35 w/ft² = 13,500 w
 - Total watts allowed = 65,700 w
 - This qualifies for a lighting density incentive since the actual is less than the Sure Bet Design Maximum.
2. What is the differential between the specified design and the IECC 2006 Standard
 - Sum the individual (lighting power density X area square footage) values for Total Power Allowance
 - Museum: 40,000 ft² at 1.1 w/ft² = 44,000 w
 - Cafeteria: 10,000 ft² at 1.4 w/ft² = 14,000 w
 - Retail: 10,000 ft² at 1.5 w/ft² = 15,000 w
 - Total watts allowed = 73,000 w
3. Calculate the rebate as follows:

<p>Watts Saved = 73,000 – 65,000 = 8,000 watts below IECC 2006 Standard Incentive = \$0.35/watts saved * 8,000 = \$2,800</p>
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P.9.4 New Construction Prescriptive – Cooling

See Section P.10.3-P.10.8 for specifications of these measures.

Table 9-3

New Construction Cooling Incentives

Equipment	Size	Qualification	Source	Source	North	North						
ipm e lityi th th th th	Water Cooling Units	Split System and Single Package Units	nc y Inc	nc y Inc	nc y Inc	nc y Inc	All Sizes	14.0 EER	\$25.00	\$10.00	\$15.00	\$6.00
Package Units			nc y Inc	nc y Inc	nc y Inc	nc y Inc	All Sizes	20% above Federal Minimum****	\$50.00	\$20.00	\$35.00	\$15.00
Room Air Conditioners			nc y Inc	nc y Inc	nc y Inc	nc y Inc	All Sizes	10.0 EER	\$35.00	\$20.00	\$25.00	\$15.00
Flat Plate Heat Exchanger			nc y Inc	nc y Inc	nc y Inc	nc y Inc	NA	NA	\$15.00 per HX Tons	NA	\$15.00 per HX Tons	NA
High Performance Glazing			nc y Inc	nc y Inc	nc y Inc	nc y Inc	NA	NA	\$0.35 per Square Foot of Glazing	NA	\$0.30 per Square Foot of Glazing	NA
Hotel HVAC Occupancy Sensor			nc y Inc	nc y Inc	nc y Inc	nc y Inc	NA	NA	\$75.00 per Guest Room	NA	\$55.00 per Guest Room	NA

* EER = Energy Efficiency Ratio

** South incentives are for measures installed in the Southern service territory, North incentives are for measures installed in the Northern service territory (see Section P.14)

***1 Ton = 12,000 Btuh (or Btu/hr)

****See Specifications in Section P.10.4 for efficiency requirements

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P.9.5 New Construction Prescriptive – Miscellaneous

See Section P.10.9 & P.10.10 for specifications of these measures.

Table 9-4
New Construction Miscellaneous Incentives

Measure	Unit	Incentive per Unit (South)*	Incentive per Unit (North)*
Building Commissioning	Per Square Foot of Conditioned Space	\$0.03	\$0.02
VSDs	Per HP	\$60.00	\$45.00

* South incentives are for measures installed in the Southern service territory, North incentives are for measures installed in the Northern service territory (see Section P.14)

P.9.6 New Construction Prescriptive – Commercial Kitchens / Refrigeration

The following are some common methods of reducing energy usage in commercial kitchens and refrigeration. These measures are typically implemented in restaurants and grocery stores, but can be applicable in other situations. The incentives are shown in 3 tables, Table 9-5 shows the incentives for high efficiency ice makers, Table 9-6 shows the incentives for Efficient Refrigerators and Freezers, and Table 9-7 shows the incentives for various other commercial kitchen/refrigeration measures. The specifications for these measures are provided in Sections P.10.11-P.10.24.

Table 9-5
Prescriptive Incentives-High Efficiency Ice Makers

Size (Lbs/Day)	Unit	Incentive/Unit
CEE Tier 2		
< 300	Machine	\$50
300-500	Machine	\$75
500-1000	Machine	\$125
1,000-1,500	Machine	\$200
>1,500	Machine	\$250
CEE Tier 3		
< 300	Machine	\$100
300-500	Machine	\$150
500-1000	Machine	\$250
1,000-1,500	Machine	\$400
>1,500	Machine	\$500

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Table 9-6
Prescriptive Incentives-Efficient Refrigerators/Freezers

Type / Size (Cubic Feet)	Unit	Incentive/Unit
Solid Door		
Refrigerator, <19	Refrigerator	\$75
Refrigerator, 19-30	Refrigerator	\$100
Refrigerator, 31-60	Refrigerator	\$150
Refrigerator, 61-90	Refrigerator	\$225
Freezer, <19	Freezer	\$100
Freezer, 19-30	Freezer	\$200
Freezer, 31-60	Freezer	\$325
Freezer, 61-90	Freezer	\$500
Glass Door		
Refrigerator, <19	Refrigerator	\$75
Refrigerator, 19-30	Refrigerator	\$100
Refrigerator, 31-60	Refrigerator	\$125
Refrigerator, 61-90	Refrigerator	\$150

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Table 9-7
New Construction Commercial Kitchen/Refrigeration Incentives

Measure	Unit	Incentive/Unit
HE Fryers	Vat	\$200
Large Vat Fryers	Vat	\$200
HE Griddles	Griddle	\$300
Convection Ovens	Oven	\$350
Combination Ovens	Oven	\$1,000
Steam Cookers	Steamer	\$750
HE Holding Cabinets, Full Size	Cabinet	\$300
HE Holding Cabinets, 3/4 Size	Cabinet	\$250
HE Holding Cabinets, Half Size	Cabinet	\$200
Ventilation Control - Exhaust Hood	HP	\$300
Auto Door Closers-Freezers	Door	\$50
Auto Door Closers-Coolers	Door	\$40
Strip Curtains on Walk-ins	Square Foot	\$3
Anti-Sweat Heater Controls	Door	\$40
Night Covers	Per Linear Foot	\$8
EC Motors: Walk-In Boxes	Per Motor	\$40
EC Motors: Refrigerated Cases	Per Motor	\$30

P.9.7 Performance-Based Approach

The performance-based approach pays incentives based on the annual energy savings that are calculated. It is a custom approach to determine the incentive for either a qualifying individual item, such as a higher efficiency chiller, a system, or on a whole building level that is not eligible for a prescriptive incentive. Documentation of savings in the form of a building performance model or appropriate engineering algorithms shall be provided by the applicant in order to qualify for this incentive. Guidelines for the documentation required are given in the Appendix for different project types. Providing as much of the info given in these guidelines as possible at the time of the application, will help reduce the timeframe for project review, as well as provide an opportunity to maximize the available incentive.

Custom

For individual items or for measures in which a whole building simulation may require excess effort relative to the project cost or the savings value, an alternative calculation of savings may be allowed. Included are any measures that result in a reduction in electric energy due to an improvement in system efficiency, i.e. a net decrease in energy use. The applicant shall provide sufficient back up descriptive information, equipment performance data, operating assumptions, measurements and calculations to support the energy savings estimates. Applications and supporting calculations will be reviewed and accepted on a case-by- case basis. The Sure Bet Team may require equipment monitoring after the installation is complete to verify performance

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claims made in the application. The Sure Bet Team will also work with the applicant to determine the appropriate baseline.

Measures with savings based on switching from one form of energy to another are not eligible for an incentive. Incentives are based on the electric energy savings that result from the energy efficiency measure installation and are calculated based on one year's estimated savings.

Whole Building

The whole building approach enables the design team to consider integrated, optimized energy efficiency solutions. The applicant shall provide the results of a building simulation model that shows that the annual energy consumption is at least 10% lower than the IECC 2006 minimum. The incentive is calculated at a varying rate for each kWh saved as compared to the IECC 2006 minimum.

The incentives are shown in Table 9-8, and are based on the time of use period in which the savings will be realized. The periods are On-Peak and Non On-Peak as defined in Section P-14. Projects that use the performance-based approach can not apply for prescriptive incentives for the same measure.

Table 9-8
Performance-Based Incentives

Performance-Based Incentives	
Annual kWh On-peak	Annual kWh Non On-Peak
\$0.10	\$0.06

See Section P.10.25 for the requirements for the performance-based incentives.

P.9.8 LEED Bonus

For 2009 LEED projects that produce electric energy savings used to achieve LEED Optimized Energy Performance (OEP) points can earn incentives using the Performance Based Approach described above, or if certain measures meet prescriptive requirements, that approach can be used, although both approaches cannot be used for the same measure. For enhanced commissioning an incentive is available through the Prescriptive Commissioning measure discussed in Section P.9.5 and P.10.9. There is also a \$200 bonus (per LEED project) available for projects that do achieve LEED NC certification. To qualify for the bonus the LEED registration number must be provided.

P.10 NEW CONSTRUCTION EQUIPMENT SPECIFICATIONS

LIGHTING

P.10.1 Remote Mounted and Wall Mounted Occupancy Sensors

Only passive infrared and/or ultrasonic detectors are eligible. Sensors shall be hardwired and control interior lighting fixtures and shall comply with manufacturers' coverage recommendations. Wallbox lighting occupancy sensors, defined as self-contained (no exterior switchpack or relay) units designed to replace a standard wall switch, shall not control more than 500 watts. The remote mounted sensor measure is also applicable to high bay sensors. Wall- or ceiling- mounted remote sensors shall not control more than 1000 watts. It is recommended that programmable-start ballasts be used whenever occupancy sensors are being employed. Incentives will not be paid for applications where occupancy control is required by code.

P.10.2 Daylight Dimming System

Eligible controls shall consist of a photo sensor that controls dimming ballasts. Dimming shall be continuous or stepped at four or more levels (including on/off). Systems that allow full on overrides are not eligible; systems that allow manual off for viewing films or overhead projections are allowed. Each sensor shall control a minimum of 4 ballasts.

COOLING

P.10.3 Water Cooled AC Units New water cooled air conditioning units or heat pumps that meet or exceed the qualifying efficiency (EER) shown in Table 9-3 are eligible for an incentive. They can be either split systems or single packaged units. The minimum efficiencies are based on the Consortium for Energy Efficiency (CEE) Tier 1 requirements (www.cee1.org). Evaporative coolers do not qualify as a New Construction Prescriptive Air Conditioning measure, but may qualify as a New Construction Performance Based measure. All packaged and split system cooling equipment shall meet Air-Conditioning and Refrigeration Institute (ARI) standards (210/240, 320 or 340/360), be UL listed, and use a minimum ozone-depleting refrigerant (e.g., HCFC or HFC). A manufacturer's specification sheet indicating the system efficiency shall accompany the application.

The total incentive is determined by two components – an equipment incentive and an efficiency incentive. Both the equipment and efficiency incentives are applied per ton of cooling installed. The equipment qualifies for an equipment incentive if the qualifying efficiency is met for the equipment size category. In addition, the efficiency incentive is added on a prorated basis if the equipment exceeds the minimum qualifying efficiency for the equipment size category.

The incentive for air conditioners is calculated as follows:

$$\text{Tons X [Equipment Incentive/ton + Efficiency Incentive/ton X (EER new – EER qualifying)]}$$

P.10.4 Packaged Terminal Units

Packaged terminal air conditioners and heat pumps are through-the-wall self-contained units that are two tons (24,000 Btuh) or less. These units cool small areas and are commonly used for individual rooms. Only units that are 20% above the federal minimum standard efficiency (EER) qualify for the incentive. All EER values shall be rated at 95 °F outdoor dry-bulb temperature. Minimum requirements are shown in the Table 10-1.

Table 10-1
PTAC Minimum Efficiency Requirements

Capacity	Federal Minimum Efficiency (EER)	Sure Bet Minimum Efficiency (EER)
7,000 Btuh and below	8.88	10.66
7,000 – 15,000 Btuh	$10 - (0.16 \times \text{Btuh}/1000)$	$1.2 \times [10 - (0.16 \times \text{Btuh}/1000)]$
15,000 Btuh and above	7.6	9.12

P.10.5 Room Air Conditioners

Room air conditioning units are through-the-wall (or built-in) self-contained units that are two tons or less. These units cool small areas and are commonly used for individual rooms. The minimum efficiency for an incentive is an EER of 10, with an additional incentive for each EER point higher than 10. These units are with and without louvered sides, without reverse cycle (i.e., heating), and casement.

P.10.6 Flat Plate Heat Exchanger

In a water-cooled chilled water cooling system, a heat exchanger may be installed to transfer heat directly between the condenser water (cooling tower) loop and the chilled water loop. A flat plate heat exchanger or closed-loop water cooler are most frequently used for this purpose. This practice is also sometimes referred to as "tower free cooling". In the dry Nevada climate this will reduce the need to operate the chiller for many hours, especially during the cooler months.

Incentives will be paid for a heat exchanger or similar equipment that transfers heat between the cooling tower and chilled water loop that displaces mechanical cooling (chiller operation).

The incentive will be based on the heat transfer capacity of the chilled water side of the heat exchanger converted to tons.

The capacity of the heat exchanger in tons will be calculated as:

$$\text{Capacity (tons)} = [\text{Design Inlet Temperature (Deg F)} - \text{Design Outlet Temperature (Deg F)}] \times \text{Design Flow Rate through Heat Exchanger (gallons per minute)} \times 500 / 12,000$$

P.10.7 High Performance Glazing

Window glazing shall have a minimum of 5-year manufacturer's warranty (to be provided with invoice). Incentives are not available for glazing with a northern exposure. Northern exposure is defined as any direction +/- 45° of true North. The glazing system shall meet the following requirements:

The Solar Heat Gain Coefficient (SHGC) of the high performance glazing shall be ≤ 0.37 and the U-Factor shall be ≤ 0.57 .

Documentation, such as plans, specifications, or invoices, that verify the square footage installed, the side of the building that the glazing is installed on, required warranty, and meeting of the performance requirements shall be provided.

P.10.8 Hotel HVAC Occupancy Sensor

Incentives are available for sensors that control PTAC or heat pump units for individual hotel rooms. Sensors controlled by a front desk system are not eligible. Sensors shall be controlled by automatic occupancy detectors, and it is recommended that during unoccupied periods, the default setting for controlled units differ at least 8 degrees from the operating setpoint. The incentive is per guest room controlled, not per sensor; for multi-room suites the incentive is available per room controlled, if a sensor is installed in each room.

MISCELLANEOUS

P.10.9 Building Commissioning

Only new buildings and major renovation projects are eligible for commissioning services. Eligible buildings shall have at least 25,000 square feet of conditioned floor space. Commissioning services are a quality assurance process designed to ensure that complex HVAC, lighting control, and energy management systems in new buildings have been installed properly and operate as designed. Incentives are available for commissioning services performed on electrical and mechanical equipment that have the potential to result in energy savings.

The commissioning shall meet the requirements for the Enhanced Commissioning Credit of LEED Version 2.2. For additional information on the Enhanced Commissioning Credit of LEED Version 2.2 please visit the following links:

Enhanced Commissioning (Reference Guide Page 37 - 38)

<http://www.usgbc.org/ShowFile.aspx?DocumentID=1095>

Who Can Be the Commissioning Authority

<http://www.usgbc.org/ShowFile.aspx?DocumentID=1262>

P.10.10 Variable Speed Drives

Variable Speed Drives (VSD) offer a method of significantly reducing the energy consumed by fans, centrifugal pumps, and other motor driven machinery operating under varying loads. VSD shall be installed for the primary purpose of reducing energy usage.

Prescriptive incentives are available for applications \leq 200 HP on qualifying HVAC fans (supply, return, exhaust, make up), single speed cooling tower fans, chilled/condenser water circulation pumps (HVAC), hot water circulation pumps (HVAC), boiler feed water pumps as well as for installations on process related machinery. For instances where VSDs are installed on redundant/backup systems (such as secondary chilled water pumps) only the units expected to be in active use are eligible for an incentive. Integrated VSD applications on new chillers are not eligible for this incentive.

Application Code for eligible VSD applications:

- BEF = Building Exhaust Fan
- CTF = Cooling Tower Fan
- CWP = Chilled/Condenser Water Pump
- FWP = Boiler Feed Water Pump
- HWP = Hot Water Circulator Pump
- MAF = Make-up Air Fan
- RFA = Return fan on return air handler
- SFA = Supply fan on supply air handler
- PRO = Process related machinery

NOTE: VSD applications required by IECC 2006 are not eligible for incentives. For example, VSD's on all VAV fan installations \geq 10 HP are not eligible as they are required by IECC 2006. Hydronic systems greater than or equal to 300,000 btu/h in design output capacity supplying heated or chilled water to comfort conditioning systems shall have flow control capabilities (which can be satisfied with a VSD).

COMMERCIAL KITCHEN / REFRIGERATION

Incentives are offered for high efficiency commercial cooking and refrigeration equipment as described in the following sections. For commercial kitchen equipment such as ovens and fryers, only electric equipment qualifies for incentives. The equipment must be owned, leased-to-own, or on a minimum 5-year lease.

Energy Star and CEE maintains a list of most qualifying products and specifications at www.energystar.gov or www.CEE1.org. To determine if non-Energy Star models meet the ASTM standard, contact your manufacturer's representative.

P.10.11 High Efficiency Ice Makers

This specification covers machines generating 60 grams (2 oz.) or lighter ice cubes, as well as flaked, crushed and fragmented ice makers. Performance data is based on ARI Standard 810.

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Air-cooled machines (self contained, ice making heads, or remote condensing) or water-cooled machines with an independent and isolated compressor and ice formation on a closed-chilled fluid loop are eligible. The efficiency specifications for the two qualifying tiers are equivalent to ENERGY STAR® (CEE Tier II) or CEE Tier III. To qualify the entire ARI tested Ice making system shall be purchased to qualify. Remote machines shall be purchased with qualifying remote condenser or remote condenser/compressor unit.

Visit www.ari.org for product information and testing procedures. Specifications are available at www.energystar.gov/cfs or www.cee1.org. The test method shall be in accordance with the Air-Conditioning and Refrigeration Institute (ARI) Standard 810.

P.10.12 Efficient Refrigerators/Freezers

The refrigeration system, cooler or freezer, shall be a new built-in (packaged) unit. Cases with remote refrigeration systems do not qualify. Applicants shall provide proof that the appliance meets the CEE Tier II energy-efficiency specifications using ASHRAE Standard 117-1992 (38°F +/- 2°F). These specifications are given in Table 10-2.

Table 10-2
Efficient Refrigerators/Freezers Energy Usage Specifications

Type	CEE Tier II Maximum Daily Energy Use
Solid Door Refrigerator	$\leq 0.06 * V + 1.22$ kWh/day
Solid Door Freezer	$\leq 0.28 * V + 0.97$ kWh/day
Glass Door Refrigerator	$\leq 0.086 * V + 2.39$ kWh/day

V = Volume in Cubic Feet

P.10.13 Vat/Large Vat Fryers

The commercial fryer shall have a tested heavy load (French fry for large vats) cooking energy efficiency of > 80% utilizing American Society for Testing and Materials (ASTM) Standard F1361 for commercial fryers and ASTM Standard F2144 for large vat fryers. Multiple vat configurations are paid per qualifying vat. Energy Star maintains a list of qualifying products and specifications at www.energystar.gov. To determine if non-Energy Star models meet the ASTM standard, contact your manufacturer's representative.

P.10.14 Griddles

The griddle shall meet or exceed a heavy load cooking energy efficiency of > 70% utilizing ASTM Standard F1275.

P.10.15 Convection Ovens

The oven shall meet or exceed a heavy load potato cooking energy efficiency of > 70% utilizing ASTM Standard F1496.

P.10.16 Combination Ovens

The oven shall meet or exceed a heavy load cooking energy efficiency of > 60% utilizing ASTM Standard F1639.

P.10.17 Steam Cookers

The commercial steam cooker shall meet ENERGY STAR specifications for energy efficiency or shall have a tested heavy load potato cooking energy efficiency of > 50% utilizing ASTM Standard F1484.

P.10.18 Holding Cabinets

This measure does not include cook and hold equipment. All measures shall be electric hot food holding cabinets that are fully insulated and have solid doors in full, three-quarter and half sizes respectively as listed in Table 10-3. Qualifying cabinets shall not exceed the maximum idle energy rate of 20 Watts per cubic foot in accordance with the ASTM Standard F2140 test method.

Table 10-3
Efficient Holding Cabinets Energy Usage Specifications

Cabinet Size	Qualifying Energy Rate
Full Size	Insulated with ER ≤0.4 kW
¾ Size	Insulated with ER ≤0.3 kW
½ Size	Insulated with ER ≤0.2 kW

Cook and hold equipment may be eligible and should be applied for as a custom incentive.

P.10.19 Ventilation Control

This incentive applies to the installation of a new commercial kitchen exhaust hood control system installed in a new dedicated commercial kitchen exhaust hood and make-up air system. The control system shall be used in conjunction with automatic variable speed fan motor controls. Only pre-approved control systems (shown in Table 10-4 below) will qualify for an incentive. A description of the pre-approval process is also given below.

Table 10-4
Pre-Approved Ventilation Control Systems

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Company Name (Website)	Brand Name	Installation Type
Melink (www.melinkcorp.com)	Intelli-Hood	New Hood

Contact the Sure Bet Team for an updated list of qualified products/vendors.

Ventilation control system vendors wanting to become pre-approved shall provide a written request which includes the following:

- Written description and documentation showing that the device reduces kWh. The minimum savings required to be eligible is 850 kWh/HP annually;
- Letter stating that the system cannot void end use equipment manufacturer's warranty.

At the discretion of the Sure Bet Team, submit to testing/monitoring to verify savings claims. This discretion will depend on the information (description and documentation) provided, so any testing of the device already performed should be submitted. If required, testing will involve having pre- and post- installation measurements done on 1-3 projects. Cost of testing to become a qualified vendor will be incurred by the vendor.

P.10.20 Auto Door Closers

The auto-closer should be applied to the main insulated opaque door of a walk-in cooler or freezer or the glass door of a reach-in cooler or freezer. For reach-ins the door shall have a minimum perimeter of 16 feet. The auto-closer shall be able to firmly close that door when it is within one inch of full closure.

P.10.21 Strip Curtains on Walk-in Coolers or Freezers

Shall install new strip curtains or clear plastic swinging doors on doorways of walk-in boxes and refrigerated warehouses. This incentive is not available for display cases or replacing existing strip curtains. Incentive is based on square footage of doorway.

P.10.22 Anti-Sweat Heater Controls

Shall install a device that senses the relative humidity in the air outside of the display case and reduces the cycle time or turns off the glass door (if applicable) and frame anti-sweat heaters at low humidity conditions. Technologies that turn off anti-sweat heater based on sensing condensation (on inner glass pane) also qualify.

P.10.23 *Night Covers*

Shall install a cover on an otherwise open vertical or horizontal refrigerated case to decrease cooling load. Applicant should also consider using proper compressor capacity modulation mechanisms (such as VSD or an unloader). Incentive is based on linear frontage length of case.

P.10.24 *Evaporative EC Fan Motor (Walk-ins or Refrigerated Cases)*

This measure is applicable to the replacement of an existing standard-efficiency shaded-pole evaporator fan motor in refrigerated walk-in boxes or cases (coolers or freezers). The replacement unit shall be an Electronically Commutated Motor (ECM). An ECM is a brushless DC motor with an electronically controlled commutator that allows the motor to operate much more efficiently than the shaded-pole motors with an electro-mechanical commutator typically used in refrigeration applications. Permanent split-core (PSC) motors are not eligible for this incentive.

PERFORMANCE BASED

P.10.25 *Performance Based*

For performance based measures using either the whole building approach or the custom approach the following supporting documentation is required along with the application:

- A narrative or list of specific energy efficient features of the building and listing the energy efficient system performance and comparing it to IECC 2006 minimum system performance.
- A description of the building schedule and major operating assumptions.
- The input and output files used for the model annotated to show the base case and where the energy efficient features are included. Industry accepted modeling tools such as e-quest, DOE-2, Trane Trace or System Analyzer, etc. can be used for building simulation purposes.
- A summary worksheet summarizing the results of the modeling showing annual energy savings and peak period demand savings between the high-efficiency case and the IECC 2006 minimum.

Additional guidelines for the documentation required are given in Appendix A for different project types. By providing as much of the info given in these guidelines as possible the timeframe for project approval will likely be reduced, as well as providing an opportunity to maximize the available incentive. In some cases post-monitoring of the equipment/systems that are part of the proposed measure(s) may be required, at the discretion of the Sure Bet Team.

P.11 HOW TO APPLY

The process of applying for an incentive under the Sure Bet Program is designed to be simple and to involve as few steps as possible. The Sure Bet Program staff is available during normal business hours to facilitate the application process.

Businesses with multiple locations throughout the state may submit one application for all locations in the northern Nevada service territory, one application for all locations in the southern Nevada service territory, and one application for California service territory. Please attach to the application a list of all sites, addresses, and appropriate contact information.

P.11.1 Pre-notification

- **A Pre-notification application is required for all custom applications, for prescriptive applications when the incentive is expected to exceed \$7,500 or where the savings are expected to exceed 750,000 kWh, and for all de-lamping projects;**
- Pre-notification is strongly encouraged for all participants in order to pre-approve incentive levels and to reserve funding;
- Pre-notification applications shall be submitted at least 14 days prior to project installation and do not require an applicant signature;
- Pre-approval reserves funds for a specific project based on the following criteria:
 - Measures are installed within 120 days of project approval
 - Applicant has committed to commence work on the proposed measures within 30 days of project approval³;
- It is the responsibility of the applicant to contact Sure Bet if a project is delayed, substantially changed or cancelled;
- Funds that have been pre-approved for specific applications are not transferable to other projects, facilities/campuses, and/or applicants;
- A complete faxed or emailed copy of the Pre-notification application form will be accepted as a placeholder for funding;
- The Pre-notification application for prescriptive measures shall include sufficient information (equipment specifications, quantities, etc.) to estimate the incentive amount;
- The Pre-notification application for custom incentives shall include an estimate of the annual energy savings, as well as sufficient descriptive information, including equipment performance data, operating schedules, load profiles, assumptions and calculations and other information to support the energy savings estimates (see Appendix for additional guidelines).

³ Sure Bet reserves the right to contact the applicant after the 30-day period has expired to ensure that the project is moving forward. The reservation may be cancelled if progress toward installation is not demonstrated.

P.11.2 Program Steps

- **Step 1.** Verify that your project is eligible and meets the project requirements as set forth in Sections P.3 through P.5;
- **Step 2.** Obtain, Complete and Submit a Pre-notification Incentive Application. Obtain a hard copy or access the appropriate Sure Bet application form (Lighting, Cooling and Miscellaneous, Commercial Kitchen/Refrigeration, or Custom for retrofit projects or New Construction for new construction or major renovation projects) on-line from the Incentive Applications section of the Sure Bet website (<http://www.nvenergy.com/surebet/>). Complete all the required information. Contractors may complete the form on behalf of applicants, but all of the applicant information and an applicant contact name shall be provided. Upon pre-approval, incentive funds will be reserved for up to 120 days (See Section P.11.1). A pre-inspection may be required. Work should not be commenced on projects requiring a pre-notification application until pre-approval is received from Sure Bet staff.
- **Step 3.** Project Installation. Install the equipment or systems within 120 days.
- **Step 4. Assemble the required documentation of project completion and costs, and (for custom projects) documentation of energy savings within 60 days of project completion.** Requests submitted more than 60 days after the completion will be evaluated on a case by case basis and will require the approval of the program manager. Obtain copies of the purchase orders or work order, statement of work, equipment specifications, and paid invoices showing the costs for labor and materials for the covered work. The documents should clearly indicate the equipment quantities and performance that is indicated in the incentive application. If the project equipment is included on several invoices it will be helpful if the applicant prepares a summary sheet that totals the quantities and shows how the quantities match the quantities in the application;
- **Step 5.** Obtain and complete a hard copy, or complete and print out the Project Completion application from the Sure Bet website: <http://www.nvenergy.com/surebet/> If a Pre-notification application was submitted, be sure to correct any incomplete or incorrect information. Project Completion application shall be submitted within 60 days after project completion or by **December 1st, 2009** whichever comes first. Requests for Payment **shall include the sheet entitled “Agreement 2009” with an original applicant signature**. Contractors may not complete this form on behalf of the applicant.
- **Step 6.** Sure Bet will review the Project Completion application and the final project documentation. A post-inspection may be required for verification purposes. Incentive payments will be sent **within 4 to 6 weeks from the time that all the documentation is received and the field inspection is complete**;
- **Step 7.** Some projects will be chosen for independent (from the Sure Bet Program) measurement and verification (M&V) purposes. If so, the applicant will be contacted by a Utility representative. M&V may include obtaining logged data on individual project components.

Please note: The Sure Bet Program reserves the right to conduct both pre and post-inspections of all projects for quality control purposes.

P.11.3 Discrepancies

If it is determined that there are discrepancies from the Pre-notification Incentive Application and our on-site analysis, the applicant will receive a letter detailing these differences. This letter provides an opportunity for the applicant (or contractor) to dispute the inspection results. After a period of ten **(10) days from the date of the letter**, if the Sure Bet staff has not been notified of a dispute, the revised incentive levels will be confirmed.

P.11.4 Forms

Pre-Notification

The Pre-notification Application Cover Page (Retrofit or New Construction) provides basic information and a list of what forms are being submitted.

The Project Information Forms provide detailed important applicant and contractor information.

The Technology Forms provide detailed information on the specific measures or scope of work for which an incentive is requested.

Project Completion

The Project Completion Application Cover Page (Retrofit or New Construction) confirms the basic information and a list of the forms submitted.

The Project Information Form provides important applicant and contractor information. This information can be copied from the Project Information Form that was submitted with the Pre-notification Application with information that needs to be updated.

The Technology Form provides detailed information on the completed specific measures or scope of work for which an incentive is requested. This information can be copied from the Technology Form that was submitted with the Pre-notification Application with any information that needs to be updated.

The Project Completion Agreement form is the applicant's acknowledgment of the terms and conditions associated with the incentive being paid on a project. An original signature on this form shall be submitted in order for an incentive to be paid.

The Third Party Assignment of Incentive form allows the applicant to authorize the payment of the incentive directly to a third party, such as the contractor. This form is required for payment to be issued to a party other than the applicant. A separate assignment form with an applicant's original signature is required for each Sure Bet project.

P.12 PAYMENT PROCESS

For commercial (retrofit) projects the incentives paid by Sure Bet will be based either on the per-unit incentives for the prescriptive measures or the projected energy savings for custom measures. For new construction projects, the incentives paid will be based on the per-unit incentives for the prescriptive measures, the calculated demand savings for lighting density projects, or the projected energy savings for performance based measures.

The Sure Bet incentive **will be paid directly to the applicant OR to a designated recipient.** Please indicate the exact name of the designated payee and the appropriate TAX ID number on the Project Information Form of the application. If a contractor is to be paid directly, a completed original Third Party Assignment of Incentive must be submitted (see Appendix B).

The applicant's credit standing with the Utility shall be acceptable for an incentive application to be approved. Utility bill payment records are reviewed as a part of the application process. If the applicant does not have satisfactory credit with the Utility, Sure Bet will require approval by the Sure Bet Utility Program Manager before an application can be approved (See definition of "Unsatisfactory Credit" in Section P.14).

P.13 DOCUMENTATION

For the Prescriptive program, the final project documentation required includes detailed invoices listing specific equipment types and quantities purchased. Copies of invoices or executed purchase orders shall indicate the final cost including any discounts and itemized with the costs for equipment, labor, supplies, and other costs. Location or business name on the invoice shall be consistent with the application information. Only expenses incurred during the term of the project (project year) can be reimbursed. As a condition of the incentive payments, the Sure Bet program reserves the right to independently verify the project costs.

Applicants may be asked to provide more detailed information on the equipment location and to aid in the pre and post-inspection process. Manufacturer's product literature, product brochures, "cut sheets", or other certified performance data for the specific model numbers and sizes of the equipment installed that documents the performance factors that are used as a basis for the incentive should be submitted with the Request for Payment. If the documented capacity or performance differs from the performance in the Pre-notification application, the incentive will be adjusted accordingly. Failure to provide the documentation may result in a reduction to the incentive payment, and delay the payment process.

For the Custom program, final documentation may include plans or specifications for the equipment or systems that are modified, paid invoices or purchase orders, equipment cut sheets or other information indicating performance over the full range of operation, documentation of operating schedule and loading profiles, commissioning reports or other documentation required by Sure Bet engineering staff. Power or other operating measurements

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or monitoring may be required for verification of calculated energy savings prior to approval of incentive payments. See the Appendix for additional guidelines.

For the New Construction program, depending on whether the measure is prescriptive or not, final documentation required will be similar to that described above for the retrofit approaches. For NC prescriptive measures, documentation will be the same as that described for retrofit prescriptive measures listed above. For non-prescriptive measures, documentation required will be similar to the retrofit custom program listed above, as well as that described in Section P.9. See the Appendix for additional guidelines.

All Requests for Payment shall be fully complete with final documentation and have an original signature of the applicant and, if applicable, the designated third party recipient of the incentive. Applications shall be post marked by **December 1, 2009** or incentive payment may be canceled or significantly delayed as changes for the 2010 program year are finalized.

P.14 DEFINITIONS

Customer: The customer is the utility customer-of-record who pays the bills for the principal account (the account with the largest kWh consumption) that is affected by the project. The primary criterion for determining the customer is the account name.

Applicant: The applicant is a customer of NV Energy. In the case where the applicant is not a customer of NV Energy, the application must be the owner of the equipment and the application must be approved by the program manager.

Direct Install: A program designed to provide comprehensive energy efficiency upgrades to small and medium sized commercial businesses (<600,000 kWh annually) in the NV Energy service territory. This program, also known as Sure Bet Direct, provides for installation of approved energy saving equipment by a program-approved service provider at little or no cost to the applicant. For more information see the 2009 Sure Bet Direct External Policies and Procedures Manual. The measures installed under the Sure Bet Direct are not eligible for an incentive under the programs described in this document for the same measure.

Facility/Campus: The primary criterion for determining the extent of a facility/campus is the Utility definition of "premises". Premises is defined as: "all of the real property employed in a single integrated activity operating under one name in one or more buildings and/or locations providing: (a) such buildings and/or locations are situated on a single unit of property; or (b) such buildings and/or locations are situated on two or more units of property which are immediately adjoining or adjacent; except for intervening public highways, streets, alleys railways or waterways." The secondary criterion is the Utility definition of "service location - a location that is (a) a single Point of Delivery, (b) Multiple points of Delivery on contiguous property, or (c) multiple Points of Delivery that are treated as a single Point of Delivery for billing purposes."

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IECC 2006: International Energy Conservation Code, 2006 Revision. Reference to IECC 2006 is defined as the local building code in effect.

Incentive: The incentive is the amount to be paid to the applicant or contractor (see Section P.7 and P.9 for amounts) once the final project documentation has been approved and all required inspections are completed.

Non On-Peak Period: The Non On-peak Period used to calculate the Non On-peak portion of Custom (or Performance Based for New Construction) incentives is defined as the hours each calendar year that are outside of the hours defined as being part of the “On-peak” Period defined below.

Northern Service Territory: That part of the service territory that is located in Washoe, Carson City, Douglas, Lyon, Elko, Pershing, Humboldt, Lander, Churchill, and Eureka Counties and is serviced by NV Energy. Includes areas in California that are served by Sierra Pacific Power Company.

On-Peak Period: The On-Peak Period used to calculate the On-peak portion of Custom (or Performance Based for New Construction) incentives. For the southern service territory it is defined as the period between 1 PM and 7 PM daily (7 days a week) from June 1 through September 30, Pacific Daylight Time. For the northern service territory it is defined according to the schedule that will be going into affect on July 1, 1009, which is the period between 1 pm and 6 pm daily (Monday through Friday) from July 1 through September 30 and between 5 PM and 9 PM daily (7 days a week) from October 1 through June 30. Times are based upon Pacific Daylight Time/Pacific Standard Time

Portfolio Energy Credits/Conservation Credits: In return for the consideration received through the Sure Bet Rebate, the applicant acknowledges that the energy efficiency credits that may result from the energy efficiency measures for which the rebate is paid inures to the benefit of NV Energy for compliance with the State of Nevada’s renewable energy portfolio standard. Credits referenced here refer to the Portfolio Energy Credits authorized under the Renewable Energy Act in the Nevada Revised Statutes, chapter 704, sections 7801 through 7828 (NRS 704.7801-7828). Owners still retain ownership of environmental credits, other tax benefits, or other credits not specifically created under NRS 704.7801 - 7828.

Pre-notification: Pre-notification is the process of informing the Sure Bet Team of your project plans for pre-approval based on applicant eligibility and project requirements. Pre-notification is required for all Custom projects, for Prescriptive projects with incentives exceeding \$7,500, for Prescriptive projects with savings expected to exceed 750,000 kWh, and for all de-lamping projects.

Program Year: The program year starts on January 1, 2009 and ends on December 31, 2009.

Project Completion: Once the Project has been completed, the Applicant is to submit a Project Completion Application Cover Page, the applicable Technology Form, and the Project

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Completion Agreement. The Project Completion paperwork shall include an original signature and all appropriate backup documentation, including detailed invoices.

Southern Service Territory: That part of the service territory that is served by NV Energy and is not included in the definition of Northern Service Territory (primarily Clark County).

Unsatisfactory Credit: Payment of bills for Utility service for 12 consecutive months, without a termination of service and with not more than three payments during that period made after the issuance of the next monthly bill. Any history of payment that does not meet these requirements is considered unsatisfactory credit.

Upstream Incentive: An incentive that is provided directly to an equipment distributor. Air-cooled AC units and premium efficiency motors are available for incentives under the Sure Bet Upstream Incentive Program and are not eligible for a incentive under the program described in this document. For more information see the 2009 Sure Bet Upstream Incentive Program Policies and Procedures Manual.

P.15 DISPUTE RESOLUTION

The Sure Bet Program Team will take every reasonable step to ensure a high level of satisfaction with all aspects of the program. However, if any problems or concerns should arise, we encourage you to contact KEMA immediately at the Sure Bet Program Hotline: (800) 342-6335 or email: surebet@nvenergy.com.

If the staff on our hotline cannot resolve your concern or dispute to your satisfaction, please contact the KEMA Sure Bet Program Operations Manager, Mr. Jon Trabert, at 702-402-5387.

If the dispute cannot be resolved, you can contact Ms. Mary Ann Sheehan, NV Energy Sure Bet Senior Program Manager at (702) 402-2073.

P.16 TAX IMPLICATIONS

Incentives that exceed \$600 are reported to the IRS on Form 1099. Incentive payments may have tax implications for businesses and/or contractors who receive them. The recipient is responsible for any and all tax payments that may result from an incentive payment. Participating businesses and contractors are encouraged to consult their accountant or tax experts to determine any tax implications.

P.17 CONTACT INFORMATION

- Toll-Free Sure Bet Program Hotline: (800) 342-6335
- Email Address: surebet@nvenergy.com

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- Website: <http://www.nvenergy.com/surebet/>

- Mailing Address:

Sure Bet Program
P.O. Box 98910 (mail stop #29)
6226 West Sahara Ave.
Las Vegas, NV 89146

- Fax: (702) 402-5452

NV Energy Senior Program Manager:

Ms. Mary Ann Sheehan
(702) 402-2073

The Sure Bet program is authorized by the Public Utilities Commission of Nevada and the California Public Utilities Commission. Funding for the program is limited and is available on a first-come, first-served basis determined by submittal of all project completion documentation. Any exception to the policies and procedures set forth requires the written authorization of the program manager.

APPENDIX A

Supporting Information Guidelines for

Custom Retrofit or Performance-Based New Construction Incentives

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NPC and SPPC Sure Bet Incentive Program			
OPERATING DATA AND EQUIPMENT PERFORMANCE GUIDELINES FOR CUSTOM LIGHTING EFFICIENCY OR CONTROL RETROFFITS OR FOR NEW CONSTRUCTION			
Provided?/ Adequate?	Information Requested	Custom Retrofit Programs	New Construction Performance Approach
	Project Overview Description	A brief narrative description of the project describing the base case lighting system, high-efficiency system and the current control of each lamp group must be provided.	A brief narrative description of the project describing the base case lighting system, high-efficiency system and the current control of each lamp group must be provided.
	Light system annual operating Schedule	Provide a schedule of operation for the each light group: Include the on time, and off time each day of the week for winter, spring/fall, and summer (May 1 - Sep 30) operation. Also provide the "flash cycle factor" or "scintillation factor" which indicates the percent of time each lamp is energized during the time that it is "on". (Continuously on factor = 1.0, 70% on = 0.7, etc.).	Provide a schedule of operation for each light group: Include the on time, and off time each day of the week for winter, spring/fall, and summer (May 1 - Sep 30) operation. Also provide the "flash cycle factor" or "scintillation factor" which indicates the percent of time each lamp is energized during the time that it is "on". (Continuously on factor = 1.0, 70% on time = 0.7, etc.).
	Light system on peak operating schedule	Provide the on peak schedule of operation for the each light group: Include the on time, and off time each day of the week for winter, spring/fall, and summer (May 1 - Sep 30) operation. Also provide the "flash cycle factor" or "scintillation factor" which indicates the percent of time each lamp is energized during the on peak hours that it is "on". (Continuously on factor = 1.0, 70% on = 0.7, etc.).	Provide the on peak schedule of operation for the each light group: Include the on time, and off time each day of the week for winter, spring/fall, and summer (May 1 - Sep 30) operation. Also provide the "flash cycle factor" or "scintillation factor" which indicates the percent of time each lamp is energized during the on peak hours that it is "on". (Continuously on factor = 1.0, 70% on time = 0.7, etc.).
	Listing of "base-case" lighting equipment	A spreadsheet listing of the base case lighting system, total lamps, types of lamps, number and wattage of lamps of each type and the current control and scintillation factor of each lamp group must be provided.	A spreadsheet listing of the base case lighting system, total lamps, types of lamps, number and wattage of lamps of each type and the current control and scintillation factor of each lamp group must be provided.
	Listing of "high efficiency" lighting equipment	A spreadsheet listing of the high efficiency lighting system, total lamps, types of lamps, number and wattage of lamps of each type and its current control of each lamp group must be provided.	A spreadsheet listing of the high efficiency lighting system, total lamps, types of lamps, number and wattage of lamps of each type and the current control and scintillation factor of each lamp group must be provided.
	Provide the estimated annual kWh consumption for the base case system.	Calculated using the data described above.	Calculated using the data described above.
	Provide the estimated annual kWh consumption for the high efficiency system.	Calculated using the data described above.	Calculated using the data described above.
	Provide the estimated on peak kWh consumption for the base case system	Calculated using the data described above.	Calculated using the data described above.
	Provide the estimated on peak kWh consumption for the high efficiency system	Calculated using the data described above.	Calculated using the data described above.
	Provide the estimated total annual kWh savings.	Annual Base Case kWh - Annual High Efficiency kWh	Annual Base Case kWh - Annual High Efficiency kWh
	Provide the annual on peak kWh savings.	Total On Peak Base Case kWh - Total On Peak High Efficiency kWh	Total On Peak Base Case kWh - Total On Peak High Efficiency kWh
NOTE: If multiple units serving a common load are being installed, the effects of interactivity MUST BE considered. The operating hours and loadings are likely to be different between the first unit and subsequent units. If the sequencing is varied, as is often the case, the savings for the plant operating as a whole should be calculated and then the total savings be divided by the number of units to estimate the savings for each unit.			
The basic equation for annual and on peak systems is: $\text{kWh Savings} = \text{Sum (for all lamp types) (Base Case Watts/lamp} \times \text{Base \# Lamps} \times \text{Base Operating Hours} \times \text{Base Scintillation Factor) - (High Effic. Watts/lamp} \times \text{HE \# Lamps} \times \text{HE Operating Hours} \times \text{HE Scintillation Factor)}$			

NV ENERGY-SURE BET POLICIES AND PROCEDURES

NPC and SPPC Sure Bet Incentive Program			
OPERATING DATA AND EQUIPMENT PERFORMANCE GUIDELINES FOR CHILLER PLANT RETROFFTS OR NEW CONSTRUCTION			
Information Provided?/ Adequate?	Information Requested	Custom Retrofit Programs	New Construction Performance Approach
	Base Case System and/or Equipment Description	Provide a brief narrative description of the ENTIRE PLANT or system being modified prior to the retrofit. Include the manufacturer and model number, rated full load capacity (tons or hp) of all major equipment. Provide the full load kW per ton or other performance indicator. Provide a description of the sequence of operations (ie the equipment staging strategy), prior to the retrofit. For chillers indicate the control strategy for key operating parameters including chilled water temperature, condenser water temperature, flow rates etc. For non HVAC loads describe the annual monthly and weekly operating schedule and loading pattern.	No Submittal Required. The IECC 2003 Code Minimum system or equipment performance is assumed as a base case.
	High Efficiency Equipment and System Description	Provide a brief narrative description of the ENTIRE PLANT or system as modified after the retrofit. Include a description of how the equipment is modified or, if replaced, include the manufacturer and model number, rated full load capacity (tons or hp). Provide a description of the sequence of operations ie how equipment is staged after the retrofit. For chillers indicate the control strategy for key operating parameters including chilled water temperature condenser water temperature, flow rates etc.	Provide a brief narrative description of the high efficiency systems that are the basis for the incentive calculation. Include a description of all major equipment or building components. Include the manufacturer and model number, rated full load capacity (tons or hp) for all chillers fans pumps, motors, etc. Provide a description of the sequence of operations ie how equipment is staged. For chillers indicate the control strategy for key operating parameters including chilled water temperature condenser water temperature, flow rates etc. For pumps and fans provide the design flow rates and pressure drop, etc.
	Performance curve for the "base-case" chiller or cooling equipment.	If the Chiller/Cooling system is being replaced prior to the end of its rated life, provide the manufacturer's rated performance (kW/ton) at 25%, 50%, 75%, and 100% loads for the EXISTING CHILLER when operating with the typical condenser water temperatures experienced at the site. If the CWT is not known, assume standard condenser temperatures with "relief" at lower loads. For chillers that are replaced on failure or at the end of their service life, provide the performance at 25%, 50%, 75%, and 100% that meets the current IECC Minimum Full Load kW/ton and/or NPLV kW/ton requirement for a chiller of the same type and size that is being installed. The performance should be at the chilled water and condenser water temperatures that are experienced at the site.	Provide the performance for a "base" chiller at 25%, 50%, 75%, and 100% that meets the current IECC Minimum Full Load kW/ton and/or NPLV kW/ton requirement for a chiller of the same type and size that is being installed. The performance should be at the chilled water and condenser water temperatures that are expected to be experienced at the site. If the anticipated setpoints are not known, then use the ARI performance rating settings.
	Measured performance data OR manufacturer's rated performance at part loads	Provide the manufacturer's rated performance (kW/ton) at (at least) 25%, 50%, 75%, and 100% loads (10% ranges is acceptable) for the high efficiency equipment when operating with the typical chilled and condenser water temperatures experienced at the site. If the CWT is not known, assume standard condenser temperatures with "relief" at lower loads.	Provide the manufacturer's rated performance for the equipment (kW/ton) at 25%, 50%, 75%, and 100% loads when operating with the typical chilled and condenser water temperatures expected to be experienced at the site. If the CWT control strategy is not known, assume the ARI standard condenser temperature profile with "condenser relief" at lower loads.
	Chiller / Cooling Unit Schedule of Operation	Provide a schedule of operation for the unit: Include the on time, and off time each day of the week for winter, spring/fall, and summer (May 1 - Sep 30) operation. Provide documentation of the operating schedule if available.	Provide the anticipated schedule of operation for the unit: Include the on time, and off time each day of the week for winter, spring/fall, and summer (May 1 - Sep 30) operation. Provide documentation of the building or system operating schedule if available. If not provide an operating schedule that is reasonable for the building use.
	Chiller / Cooling Unit Annual Operating Hours	Provide Log sheets or other documentation showing the annual operating hours of EACH active chiller or other cooling unit in the plant that is being modified. Indicate the unit that is being modified or replaced. Operating hours should consider the use of air or water side economizers on the cooling unit operation.	Provide documents showing the expected sequencing conditions and the expected total operating hours for EACH of the chillers or other cooling units that are being installed. Operating hours should consider the use of air or water side economizers (if specified) on the cooling unit operation.
	Chiller or Cooling Unit Total Annual Load Profile	Provide hourly amps, kW, tons, delta t or other data from the BMS, or operating logs, short term monitoring data or other operating data from which the annual cooling load profile on the equipment can be estimated. If only short term monitoring data is available, provide either concurrent dry bulb temperatures or other data from which the short term load profile can be extrapolated to an annual load profile. A building load model may be used but the model must be calibrated to the actual building use within 5% annually and monthly.	Develop a building load model from which the annual cooling load profile on the equipment can be estimated. Provide hourly or "bin" weather data for the site and show how the load is expected to vary with outside temperature.
	Chiller or Cooling Unit On Peak Load Profile	Provide hourly amps, kW, tons, delta t or other data from the BMS, or operating logs, short term monitoring data or other operating data from which the on-peak period cooling load profile on the equipment can be estimated. If only short term monitoring data is available, provide either weather data or other data from which the short term load profile can be extrapolated to an annual load profile. A building load model may be used but the model must be calibrated to the actual building use within 5%.	A building or equipment load model must be used. Both the inputs to and outputs from the model for both the base case and the high efficiency equipment must be provided. The model must reasonably reflect the likely operation of the plant at the site.
	Provide the estimated annual kWh consumption for the base case cooling system.	Calculated by a calibrated bin-model, system performance model, or acceptable hourly building load analysis model using the data described above.	Calculated by a bin-model, system performance model, or acceptable hourly building load analysis model using the data described above.

NPC and SPPC Sure Bet Incentive Program

OPERATING DATA AND EQUIPMENT PERFORMANCE GUIDELINES FOR VFD OR ALTERNATIVE EFFICIENT CAPACITY CONTROL RETROFITS OR NEW CONSTRUCTION

Provided?/ Adequate?	Information Requested	Custom Retrofit Programs	New Construction Performance Approach
	Project Overview Description	A brief narrative description of the base case equipment, and its current capacity control system must be provided.	A brief narrative description of the high efficiency equipment being installed, the proposed capacity control system and a description of how the HE equipment results in reducing energy use must be provided.
	Equipment Annual Operating Schedule	Provide a schedule of operation for the unit: Include the on time, and off time each day of the week for winter, spring/fall, and summer (May 1 - Sep 30) operation. Provide written documentation of the operating schedule using production logs, BAS data etc. if available.	Provide the expected schedule of operation for the unit: Include the on time, and off time each day of the week for winter, spring/fall, and summer (May 1 - Sep 30) operation. Provide documentation of the projected operating schedule if available.
	Performance curve for the "base-case" system capacity control equipment.	Provide the input power or fraction of full load input power for each increment of the existing equipment/control system output (torque, air flow, water flow, pressure, etc.) for AT LEAST 25% loading increments (ie 25%, 50%, 75%, and 100% of full loading), and PREFERABLY 10% loading increments. Include fan, pump, compressor, or other equipment load/power curves if available.	Provide the input power or fraction of full load input power for each increment of the hypothetical base case equipment/control system output (torque, air flow, water flow, pressure, etc.) for AT LEAST 25% loading increments (ie 25%, 50%, 75%, and 100% of full loading), and PREFERABLY 10% loading increments. Include fan, pump, compressor, or other equipment load/power curves if available.
	Performance curve for the new (rebated) chiller(s) or other cooling equipment.	Provide the input power or fraction of full load input power for each increment of the high efficiency equipment/control system output (torque, air flow, water flow, pressure, etc.) for AT LEAST 25% loading increments (ie 25%, 50%, 75%, and 100% of full loading), and PREFERABLY 10% loading increments.	Provide the input power or fraction of full load input power for each increment of the high efficiency equipment/control system output (torque, air flow, water flow, pressure, etc.) for AT LEAST 25% loading increments (ie 25%, 50%, 75%, and 100% of full loading), and PREFERABLY 10% loading increments.
	Equipment Annual Operating Hours	Provide Log sheets or other documentation showing the annual operating hours of EACH active chiller or other cooling unit in the plant that is being modified. Indicate the unit that is being modified or replaced. Operating hours should consider the use of air or water side economizers on the cooling unit operation.	Provide documents showing the expected sequencing conditions and the expected total operating hours for EACH of the chillers or other cooling units that are being installed. Operating hours should consider the use of air or water side economizers on the cooling unit operation.
	Equipment Total Annual Operating Load Profile	Provide hourly amps, kW, tons, delta t or other data from the BMS, or operating logs, short term monitoring data or other operating data from which the present annual load profile on the equipment can be estimated. If only short term monitoring data is available, provide either weather data, production, air-flow profiles, occupancy or other data from which the short term load profile might be extrapolated to an annual load profile. A building load model may be used but the model must be calibrated to the actual building use within 5%.	Construct a system operating load model from which the annual load profile on the equipment can be estimated. Provide hourly or "bin" weather data for the site and show how the load is expected to vary with load.
	Equipment On Peak Load Profile	Provide hourly amps, kW, tons, delta t or other data from the BMS, or operating logs, short term monitoring data or other operating data from which the present on peak load profile on the equipment can be estimated. If only short term monitoring data is available, provide either weather data, production, air-flow profiles, occupancy or other data from which the short term on peak loading profile might be extrapolated to an annual on peak load profile. A load model may be used but the model must be calibrated to the actual system measured use within 5%.	A building, equipment, weather, or production-based hourly or bin-type load model must be used. Both the inputs to and outputs from the model for both the base case and the high efficiency equipment must be provided. The model must reasonably reflect the likely operation of the equipment at the site.
	Provide the estimated annual kWh consumption for the base case system.	Calculated using the data described above.	Calculated using the data described above.
	Provide the estimated annual kWh consumption for the high efficiency system.	Calculated using the data described above.	Calculated using the data described above.
	Provide the estimated on peak kWh consumption for the base case system	Calculated using the data described above.	Calculated using the data described above.
	Provide the estimated on peak kWh consumption for the high efficiency system	Calculated using the data described above.	Calculated using the data described above.
	Provide the estimated total annual kWh savings.	Annual Base Case kWh - Annual High Efficiency kWh	Annual Base Case kWh - Annual High Efficiency kWh
	Provide the annual on peak kWh savings.	Total On Peak Base Case kWh - Total On Peak High Efficiency kWh	Total On Peak Base Case kWh - Total On Peak High Efficiency kWh

NOTE: If multiple units serving a common load are being installed, the effects of interactivity MUST BE considered. The operating hours and loadings are likely to be different between the first unit and subsequent units. If the sequencing is varied, as is often the case, the savings for the plant operating as a whole should be calculated and then the total savings be divided by the number of units to estimate the savings for each unit.

The basic equation for annual and on peak systems is:
kWh Savings = Sum (for all loads) [Output Load x Hours at Output Load x (Base Case Equipment kW/Output Load - HE Equipment kW/Output Load)]