

# **Low Income Energy Efficiency Program Statewide Policy and Procedures Manual**

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Applicable to:

Pacific Gas & Electric Company  
Southern California Edison Company  
Southern California Gas Company  
San Diego Gas & Electric Company

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# 1

## Introduction

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### 1.1 Overview

This *Program Year 2002 Statewide LIEE Policy and Procedures Manual (PY2002 Manual)* describes the policies and procedures followed in the Low Income Energy Efficiency (LIEE) Programs administered by Pacific Gas & Electric Company (PG&E), Southern California Edison Company (SCE), Southern California Gas Company (SoCalGas), and San Diego Gas & Electric Company (SDG&E). The core of the *PY2002 Manual* describes common policies and procedures, while a series of appendices describe utility-specific policies and procedures.

This *PY2002 Manual* is accompanied by two other documents with which all contractors working in these programs must comply:

- *California Conventional Home Weatherization Installation Standards*, which describes the materials and installation procedures that must be followed during the installation of measures in conventional homes; and
- *California Mobile Home Weatherization Installation Standards*, which describes the materials and installation procedures that must be followed during the installation of measures in mobile homes;

Copies of these documents (referred to hereafter as the Installation Standards) may be obtained from the utility contact persons listed in Section 1.3 below.

The policies and procedures in this *PY2002 Manual* are supplemented by the general and specific terms and conditions incorporated into contracts between the utilities and parties providing services as part of the LIEE Program.

Updates in Program policies and procedures may be issued by the utilities during the course of the 2002 Program Year. The final interpretation of policies and procedures incorporated into this *PY2002 Manual* and the associated Installation Standards rests with the utilities' Program Managers.

## 1.2 Structure of this Manual

The remainder of this *PY2002 Manual* is organized as follows:

- Section 2 specifies general PY2002 statewide policies and procedures relating to customer and home eligibility for the LIEE Program.
- Section 3 discusses policies relating to customer outreach and customer relations.
- Section 4 describes the services that are provided under the LIEE Program in the initial home visit.
- Section 5 lists the energy efficiency measures that are available to participants in the PY2002 LIEE Program and discusses the process by which this measure list will be determined for subsequent program years.
- Section 6 discusses policies relating to minor home repairs and furnace repairs and replacements.
- Section 7 describes policies and procedures relating to the installation of energy efficiency measures and the provision of minor home repairs in participating homes.
- Section 8 summarizes general statewide inspection policies and procedures.
- Section 9 discusses contractor eligibility.
- Section 10 describes the minimum standard for natural gas appliance testing.
- Appendix A contains a copy of the Customer Bill of Rights.
- Appendix B presents a list of additional energy efficiency measures offered under Rapid Deployment.
- Appendix C provides a list of the cities comprising the weather zones used in the analysis of ceiling insulation levels.
- Appendix D provides measure-specific policies and procedures relating to Rapid Deployment measures.

# 2

## Customer and Structural Eligibility

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### 2.1 Overview

This section discusses the eligibility of individual households for participation in the LIEE Program. Eligibility of a household for program participation and for specific types of measures depends on several factors, including:

- Household income;
- The utility services provided by the utility to the household;
- The specific type of structure in which the household resides;
- The ability to obtain the approval of the landlord in the event the household resides in rental property;
- Previous weatherization services provided for the property in question; and
- The household's need for energy efficiency measures.

These eligibility requirements are explained below.

### 2.2 Income Requirements

#### 2.2.1. *Income Guidelines*

All the utilities use the LIEE income guidelines<sup>1</sup> established by the California Public Utilities Commission (“CPUC” or “Commission”) to qualify participants in the LIEE Program. These guidelines are based on certain percentages of the Federal poverty levels for households of different sizes. There are two tiers to the income eligibility requirement. As established in D. 01-06-010,<sup>2</sup> the income guideline is 175% of the Federal poverty level if the applicant or the head of household is neither 60 years of age or older, nor disabled. The guideline is 200% of the Federal poverty level if the applicant or the head of household is

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<sup>1</sup> Commission Resolution E-3254, dated January 21, 1992 ordered utilities to use the CARE income guidelines for the low income weatherization programs, but permits utilities to use 200% of Federal Poverty Guidelines for low income customers who are 60 years of age or older and for handicapped persons.

<sup>2</sup> See *Interim Opinion: Eligibility Criteria and Rate Discount Level for Low Assistance Programs*, D. 01-06-010, June 7, 2001.

either 60 years of age or older, or disabled. The Federal poverty level is changed annually, so the CPUC updates the LIEE income guidelines every year. Table 2-1 presents these guidelines for the period of June 1, 2001 through May 31, 2002.

**Table 2-1: Income Guidelines (June 1, 2001 Through May 31, 2002)**

<b>Number of People Living in Household</b>	<b>If the applicant or head of household is neither 60 years of age or older nor disabled, total household income before taxes cannot exceed:</b>	<b>If the applicant or head of household is 60 years of age or older or disabled, total household income before taxes cannot exceed:</b>
1	\$22,000	\$25,200
2	\$22,000	\$25,200
3	\$25,900	\$29,600
4	\$31,100	\$35,600
If greater than 4, add the following amount per person	\$5,200	\$6,000

**2.2.2. Types of Income Included in Household Income**

For the purposes of determining Program eligibility, all income is considered, including taxable and non-taxable income and including (but not limited to) child support, spousal support, disability or veteran’s benefits, rental income, Social Security, pensions and all social welfare program benefits before any deductions are made. Table 2-2 indicates the specific items included as income for the purpose of determining eligibility for the LIEE Program.

The following types of receipts are *not* considered household income for the purposes of determining eligibility:

- Loan proceeds;
- Assets (money in bank accounts, a house, a car or other property of possessions);
- Funds transferred from one applicant account to another; or
- Liquidation of assets (other than the portion representing capital gains).

**Table 2-2: Items Included in Income**

Wages, salaries and commissions	401K payments or withdrawals <sup>3</sup>
Alimony payments	Rental income and royalties
Child support payments	School grants, scholarships or other aid <sup>3</sup>
Disability benefits	Self-employment earnings
Foster care payments	Social security payments
Realized capital gains on assets	Housing subsidies
Interest and dividends on assets	Supplemental Security Income (SSI) payments and SSP payments
Food stamps	Temporary Assistance to Needy Families (TANF) payments
Gambling/lottery winnings	Unemployment Benefits payments
General relief	Veterans Administration Benefit payments
Monetary gifts (both one-time and recurring)	Workers Compensation payments
Insurance settlements or legal settlements <sup>3</sup>	Union strike fund benefits
Pension payments or withdrawals <sup>3</sup>	

<sup>3</sup> Other than loans.

### **2.2.3. Verification of Income**

Income documentation must be reviewed, recorded, copied and stored by service providers prior to the installation of measures for all prospective participants.<sup>3</sup> Qualification for other programs cannot be taken as adequate evidence of qualification for the LIEE Program, except in the event that the customer has been verified by the utility as eligible for the CARE Program over the past year. Self-certification is not permitted.

The utility will periodically audit income documentation stored by the contractor. In the event that documentation is not complete and correct for a participant, payment to the contractor for the weatherization of that unit may be disallowed.

Table 2-3 indicates the kinds of documentation required for various types of income. In applying these documentation requirements, the following stipulations must be observed:

- Current award letters must include the value of the award and the period of time in question. They must also be dated during the program year and within one year of the customer's signature date and must list the customer's name.
- Affidavits relating to gifts must indicate the amount and frequency of the gift(s). They must also contain the name, phone number, address and signature of the giver.
- In determining rental income, it must be understood that a renter-landlord relationship exists between household members when a room or rooms in the home is being rented. Unless the renter is a dependent of someone in the household, the renter's income is not included in household income and the renter is not counted as a household member. The rental payments do count as household income. In the event that the renter is a dependent of someone in the household, the renter's income is counted, the renter is considered as a household member, and the rental payment is not counted as part of household income. A dependent is anyone claimed on the applicant's income tax return.
- Federal income tax documentation must include copies of all 1099s and W-2 forms.
- Affidavits from an employer who pays the applicant cash wages must be on the employer's letterhead and include the company name, address and phone number. It must also include the name of the applicant, total amount paid to the applicant, and the frequency of payments, and must contain a signature from the employer's authorized representative.
- If the applicant receives cash wages for jobs like mowing lawns, babysitting, handyman services, casual day labor, etc., a self-employment affidavit from the applicant is acceptable if it meets all Program criteria.

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<sup>3</sup> This requirement is not applicable to the SCE relamping program.

**Table 2-3: Income Documentation Requirements**

<b>Type of Income</b>	<b>Documentation</b>
wages, salaries and commissions	copy of customer's payroll check stub(s) OR Federal income tax filing showing gross income OR affidavit from employer (for cash wages only, and only where just one employer)
alimony or child support payments	cancelled checks OR most recent court document stating amount
disability benefits, foster care payments, Unemployment Benefits, VA Benefits, Workers Compensation	copy of checks stubs OR copy of most recent award letter
capital gains	Federal Income Tax filing showing gross income, or 1099 form
food stamps	copy of most recent award letter OR food stamp/cash issuance letter (indicate TANF or General Relief)
gambling/lottery winnings	determined on case-by-case basis
general relief	copy of most recent award letter (Notice of Action) OR copy of uncashed check(s) OR copy of direct deposit statement(s)
monetary gifts	copy of customer's bank statement OR affidavit from gift giver
proceeds from insurance settlements or legal settlements	copy of settlement document
interest and dividend income	copy of customer's bank statement(s) OR copy of customer's investment statement(s) OR Federal Income Tax filing showing gross income
pension or 401K payments or withdrawals	copy of customer's check stubs OR copy of most recent award letter OR Form 1099R from prior year
rental income	tax return (Form 1040, Schedule C, line 1049) showing rental income OR copy of rental receipts OR copy of rental agreement specifying rent amount and affidavit from tenant
school grants, scholarships or other aid	copy of award letter OR copies of cancelled checks
self-employment earnings	income statement showing most recent quarterly adjusted earnings plus prior year's tax return (1040 C line 29) OR written affidavit from an accountant or applicant
housing subsidies	award letter
Social Security payments	copy of most recent award letter OR customer's bank statement showing Social Security deposit
(SSI) payments and (TANF) payments	copy of most recent award letter (Notice of Action) OR copy of uncashed check(s) OR copy of customer's direct deposit statement
Union strike fund benefits	Copy of benefits payment stub

- An applicant's affidavit relating to cash wages received from an employer must include the employer's company name, address and phone number, the name of the applicant, total amount paid to the applicant, and the frequency of payments, and must contain a signature from the employer's authorized representative.
- In cases where a household claims no income for the past 12 months, the applicant must demonstrate his or her means of financial support other than income. In the event that the applicant cannot provide documentation of either income or other means of support, weatherization services will not be performed until such information is provided.

#### **2.2.4. Household Income Calculation Procedures**

Household income guidelines are based on gross (*pre-tax*) annual income.<sup>4</sup> In the event that a full 12 months of income information is not available, or if there has been a change in the employment status of the household over the past 12 months, it may be necessary to annualize income from a shorter period of time. If, for instance, a household member has been employed for six months, the income earned over this period would be annualized by multiplying it by 2.

It is the intention of the LIEE Program for all outreach personnel to compute annual income as accurately as possible. The calculations used will depend on the type of records available from each household member. Since all household members may not have the same type of income records, it may be necessary, and appropriate, to use more than one method when documenting income for different members of the same household.

#### **2.2.5. Determining Household Size**

Household size is the current number of people living in the home as permanent residents. Friends or family on a temporary visit (less than 6 months) are not considered household members nor are their earnings part of household income.

Children and/or other dependents residing in the household *only* on weekends, holidays, or vacations may be counted as part of the household only if the family claims them as dependents on their federal income tax filing. Children by previous marriages who do not reside in the home cannot be considered household members, even if they are receiving child support, unless they are claimed as dependents on the applicant's federal income tax filing.

#### **2.2.6. Qualifying Multifamily Complexes and Mobile Home Parks**

The LIEE Program makes use of fractional income qualification for multifamily complexes and mobile home parks. The terms of income qualification are as follows:

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<sup>4</sup> *For self-employed individuals, gross (pre-tax) income is defined to be net of deductions for the costs of earning income. (Need cite here.)*

- *For the purposes of determining income eligibility*, multifamily complexes are defined as those with five (5) or more dwelling units. Duplexes, triplexes, and fourplexes will be qualified as single family homes for the purposes of determining income eligibility.
- To qualify an entire multifamily building for the full Program, 80% of all (occupied and unoccupied) dwelling units must be occupied by income-qualified households. However, if 80% of all units adjacent to a common attic space satisfy the 80% rule, that attic space may be treated even if the 80% rule is not satisfied for the entire building. In the event that fewer than 80% of the dwelling units are occupied by income qualified households, individual dwelling units occupied by qualifying households may still be treated.
- To qualify an entire mobile home park for the full Program, 80% of all (occupied and unoccupied) dwelling units must be occupied by income-qualified households. In the event that fewer than 80% of the dwelling units are occupied by income qualified households, individual dwelling units occupied by qualifying households may still be treated.
- Service providers must review, copy and store income documentation for all households used to qualify an apartment building or a mobile home park.<sup>5</sup> The provider must also make its best effort to review and record income documentation for all other households in the multifamily building or mobile home park (i.e., those not used to meet the 80% qualification standard).
- Unoccupied and other non-qualified multifamily dwellings may be weatherized, as long as the multifamily building satisfies the 80% rule for income qualification.

## **2.3 Service Eligibility**

### **2.3.1. General Service Eligibility Conditions**

The eligibility of a dwelling unit for a specific utility's LIEE Program and for individual measures offered through that Program depends partly on the entity(ies) from which the dwelling unit receives natural gas and electric distribution service. Table 2-4 through Table 2-7 indicate the eligibility of dwelling units receiving various service combinations, by electric service area. Space heating measures (SH) are weatherization measures affecting space heating usage. Water heating measures (WH) are those affecting water heating usage. Electric measures (ele) include CFLs, hard-wired fluorescent porch lights, evaporative coolers, and refrigerator replacements.

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<sup>5</sup> This requirement is not applicable to the SCE relamping program.

As shown in Table 2-4 through Table 2-7, eligibility for groups of measures with an individual program depends the customer’s space heating and water heating fuels as well as the specific provider of these fuels.

**Table 2-4: Service Eligibility, PG&E Provides Electric Service**

Situation Facing Household				Measures for which home is eligible					
Provides Electric Service	Provides Gas Service	Space Heating Fuel	Water Heating Fuel	If the home participates in PG&E Program			If the home participates in the Gas IOU Program		
				SH	WH	ele	SH	WH	ele
PG&E	PG&E	gas	gas	✓	✓	✓			
PG&E	PG&E	electric	electric	✓	✓	✓			
PG&E	PG&E	gas	electric	✓	✓	✓			
PG&E	PG&E	electric	gas	✓	✓	✓			
PG&E	SoCalGas	gas	gas			✓	✓	✓	
PG&E	SoCalGas	electric	electric	✓*	✓	✓			
PG&E	SoCalGas	gas	electric		✓	✓	✓		
PG&E	SoCalGas	electric	gas	✓*		✓			
PG&E	None	electric	electric	✓	✓	✓			
PG&E	None	electric	other	✓		✓			
PG&E	None	other	electric		✓	✓			
PG&E	None	other	other			✓			

\* Non-infiltration measures only.

**Table 2-5: Service Eligibility, SCE Provides Electric Service**

Situation Facing Household				Measures for which home is eligible					
Provides Electric Service	Provides Gas Service	Space Heating Fuel	Water Heating Fuel	If the Home Participates in the SCE Program			If the Home Participates in Gas IOU Program		
				SH	WH	ele	SH	WH	ele
SCE	PG&E	gas	gas			✓	✓	✓	
SCE	PG&E	electric	electric	✓	✓	✓			
SCE	PG&E	gas	electric			✓	✓		
SCE	PG&E	electric	gas	✓		✓		✓	
SCE	SoCalGas	gas	gas			✓	✓	✓	
SCE	SoCalGas	electric	electric			✓	✓	✓	
SCE	SoCalGas	gas	electric			✓	✓	✓	
SCE	SoCalGas	electric	gas			✓	✓	✓	
SCE	None	electric	electric	✓	✓	✓			
SCE	None	electric	other	✓		✓			
SCE	None	other	electric			✓			
SCE	None	other	other			✓			

**Table 2-6: Service Eligibility, SDG&E Provides Electric Service**

Situation Facing Household				Measures for which home is eligible					
Provides Electric Service	Provides Gas Service	Space Heating Fuel	Water Heating Fuel	in Electric IOU Program			in Gas IOU Program		
				SH	WH	ele	SH	WH	ele
SDG&E	SDG&E	gas	gas	✓	✓	✓			
SDG&E	SDG&E	electric	electric	✓	✓	✓			
SDG&E	SDG&E	gas	electric	✓	✓	✓			
SDG&E	SDG&E	electric	gas	✓	✓	✓			
SDG&E	SoCalGas	gas	gas	✓	✓	✓	✓	✓	
SDG&E	SoCalGas	electric	electric	✓	✓	✓			
SDG&E	SoCalGas	gas	electric	✓	✓	✓	✓		
SDG&E	SoCalGas	electric	gas	✓	✓	✓			
SDG&E	None	electric	electric	✓	✓	✓			
SDG&E	None	electric	other	✓		✓			
SDG&E	None	other	electric		✓	✓			
SDG&E	None	other	other			✓			

**Table 2-7: Service Eligibility, Other Utility Provides Electricity Service**

Situation Facing Household				Measures for which home is eligible if the Home Participates in Gas IOU Program		
Provides Electric Service	Provides Gas Service	Space Heating Fuel	Water Heating Fuel	SH	WH	ele
Other	PG&E	gas	gas	✓	✓	
Other	PG&E	electric	electric			
Other	PG&E	gas	electric	✓		
Other	PG&E	electric	gas		✓	
Other	SoCalGas	gas	gas	✓	✓	
Other	SoCalGas	electric	electric			
Other	SoCalGas	gas	electric	✓		
Other	SoCalGas	electric	gas			
Other	None	electric	electric			
Other	None	electric	other			
Other	None	other	electric			
Other	None	other	other			

**2.3.2. Referrals**

In order to provide the maximum opportunity for eligible customers to receive all feasible measures, the four IOUs—PG&E, SCE, SoCalGas, and SDG&E—will set up a referral system with each other and with the local Department of Community Services and Development (DCSD) agencies.

In the event that a customer uses a heating fuel provided by an entity other than an IOU, the utility will install measures for which the customer is eligible under the utility’s program and refer the customer to the DCSD Program. In order to implement this step, the utilities will work with DCSD and its local contractor agency network to set up a formal referral procedure.

In the event that a customer lives in an area where one IOU utility provides one service (either natural gas or electricity) and another IOU provides the other fuel (either electricity or natural gas), and if one utility is not providing all measures, a referral system will also be used to give the customer the opportunity to receive all measures for which he/she is eligible under the LIEE Programs of the two utilities. If the electric utility contacts the household first, it will install measures for which the household is eligible under the electric utility’s Program and refer the customer to the natural gas utility’s program for measures relating to natural gas end uses. If the initial contact is made by the natural gas utility, this utility will

install measures for which the customer is eligible under the utility's program and refer the customer to the electric utility's program for measures applicable to electric end uses. In both cases, the utility installing infiltration measures will conduct natural gas appliance testing as long as the utility serves natural gas somewhere in its service area (and thus has trained gas service representatives). In the event that the customer has electric space heat served by an electric-only utility, the electric utility will not install infiltration measures if natural gas appliances are present. However, in this case the electric utility will refer the home to the local DCSD agency(ies).

In order to mitigate the duplication of costs that could otherwise be associated with customers participating in two utility programs, two steps would be taken:

- first, outreach staff in each program will accept customer income qualification documentation already obtained by outreach staff in the other program;
- second, gas and electric utilities will offer common energy education in overlap areas so that customers will need to receive education only under one program.

## **2.4 Treatment of Master-Metered Units**

Customers whose service is covered by master meters may participate in the LIEE Program. For these customers, the following policies and procedures will apply:

- Deemed savings can be used in the evaluation of Program savings for master-metered units.
- Utility Program personnel will attempt to explain the Program to the landlord or property manager prior to contacting tenants, in order to minimize the creation of friction between landlords and tenants.
- If the master-metered dwellings are multifamily units or in a mobile home park, the standard fractional (80%) qualification used for multifamily dwellings and mobile home parks will be used for the purposes of qualifying tenants for the Program. Landlords must be informed that income documentation will be required for the purposes of determining eligibility.
- Utilities may set a maximum on the percentage of participants treated by a contractor in a program year that are master-metered. This percentage will generally reflect the predominance of master-metered dwellings in the service area, but will be no higher than 15%. Table 2-8 presents the limits on the treatment of master-metered units for the four service utility programs. Three of the utilities with relatively high proportions of low-income customers on either electric or gas master meters will impose caps of 15%. SoCal Edison, which has a relatively low percentage of low-income customers on master meters (primarily because master metering is less common on electric meters) will impose a cap of 8%.

**Table 2-8: Caps on Master-Metered Dwellings**

Characteristic	PG&E	SCE	SoCal Gas	SDG&E
Estimated percentage of low-income dwellings with electric master- meters	10.0%	8.0%	na	5.0%
Estimated percentage of low-income dwellings with natural gas master- meters	18.0%	na	16.0%	30.0%
Cap on master-metered dwellings as a percentage of total treated units	15.0%	8.0%	15.0%	15.0%

These caps will be implemented through limits placed in contracts with installation contractors.

## 2.5 Structural Eligibility

**Public Housing.** Public housing is eligible for participation in the LIEE Program, but must meet the standard terms and conditions of the program in order to participate. (Note that this does not include on-base military housing, insofar as these dwelling units are not served by the investor-owned utilities.)

**Housing Type.** Single family homes, multifamily dwelling units, and mobile homes are eligible to participate in the program. To preserve equity, the utilities have adopted a long term goal of having the mix of dwellings treated under the Program reflect the residence type mix found in the low income communities served by their programs. The multifamily targets are cast in terms of units treated, and are set equal to the proportions of multifamily dwellings in the overall low-income housing stock of each utility’s service area. Table 2-9 presents the targets for multifamily units in the four service areas.

**Table 2-9: Long Term Targets for Treatment of Multifamily Dwellings**

PG&E	SCE	SoCal Gas	SDG&E
23.1%	51.3%	32.8%	47.5%

There are, of course, several reasons why homes treated in a specific year may not reflect the dwelling type mix of low-income housing:

- Other programs may overlap the LIEE Program, and may affect the overall treatment of eligible units.
- The mix of homes treated in the past, under individual utility programs, may not represent the dwelling type mix of that utility, so current programs may be designed to bring total program treatment rates into alignment.
- It may make sense from a marketing and outreach standpoint to target certain residence types each year, with the expectation that equity would be achieved over time.

As a result, the utilities may promote or limit the treatment of multifamily units in individual program years as long as these actions are consistent with the achievement of these long-term goals.<sup>6</sup>

**Housing on Non-Residential Rates.** In general, only residential customers on residential rates are eligible to participate in the LIEE Program. However, group homes on non-residential rates are eligible for LIEE services as long as they are currently eligible for CARE under current CARE guidelines applicable to group living facilities,<sup>7</sup> and the structure in question is a single family, multifamily or mobile home suitable for weatherization under LIEE standards.<sup>8</sup>

CARE-eligible facilities include but are not limited to the following:

- Migrant farmworker housing centers, as defined in Section 50710 of the Health and Safety Code, provided that 70% of all energy usage in master-metered facilities and 100% of all energy usage in individually-metered facilities is residential;
- Privately owned employee housing, as defined in Section 17008 of the Health and Safety Code, that is licensed and inspected by the state and local agencies pursuant to Part I of Division 13, and in which 100% of all energy use is residential;
- Housing for agricultural employees operated by non-profit entities, as defined in Subdivision (b) of Section 1140.4 of the Labor Code, and that has an exception from local property taxes pursuant to subdivision (g) of the Revenue and Taxation

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<sup>6</sup> It should be noted that the Commission's Needs Assessment Project will provide a benchmark with respect to the current status of the utilities in meeting this target.

<sup>7</sup> See D. 92-04-024, April 8, 1992; D. 92-06-060, June 17, 1992; D. 95-10-047, October 18, 1995. Also see *Commission Advisory and Compliance Division, Workshop Report on California Alternate Rates for Energy (CARE): The Development of Guidelines to Implement CARE for Migrant Farmworker Housing, Agricultural Employee Housing, and Employee Housing*, May 1995.

<sup>8</sup> It should be noted that CARE income eligibility requires that 100% of the residents of the facility (other than live-in staff) meet the 175% income guideline. According to this recommendation, this income eligibility criterion will be applied to group homes for the purposes of determining LIEE income eligibility.

Code, provided that 70% of all energy usage in master-metered facilities and 100% of all energy usage in individually-metered facilities is residential;

- Group living facilities, defined as transitional housing (such as a drug rehabilitation or half-way house), short- or long-term care facilities (such as a hospice, nursing home, children's home or seniors' home), group homes for physically or mentally challenged persons, or other nonprofit group living facilities; and
- Homeless shelters, hospices and women's shelters with the primary function of providing lodging and which are open for operation with at least six beds for a minimum of 180 days and/or nights (including satellite facilities in the name of the licensed corporation, where 70% of the energy supplied is for residential purposes).

Such facilities are considered to satisfy the LIEE income guidelines if the applicant can verify that 100% of the residents and/or households living in the facility meet the LIEE income guidelines, excluding any employee operating or managing the facility who resides at the facility.

## **2.6 Home Ownership Documentation**

### **2.6.1. Overview**

Home ownership must be verified in order to ensure that the legal owner signs the Property Owner Waiver. It is the responsibility of the contractor to review the documents and ensure proof of home ownership. If a home is in the name of a deceased spouse, the surviving spouse should be considered as the owner. For example, if the home is in husband's name and never transferred to the widow, the widow is considered as the current homeowner.

Any of the following may be used for home ownership documentation:

- Deeds
- Loan or mortgage documents
- Property tax records or bills
- Home owner property insurance (fire insurance)
- Mortgage payment invoices or book.

If documentation of home ownership is not available from homeowner, telephone verification by the county tax assessor's office is acceptable. The telephone number called and the name of the official providing the verification must be noted in the customer file.

### **2.6.2. Multiple Ownership**

If the home is owned by more than one person, the homeowner will be considered any one of the persons whose name appears on the document.

### **2.6.3. Life Estate/Living Trust**

A homeowner may have established a "Life Estate" or "Living Trust." With either, the property is deeded to another individual or trust but the original owner maintains control of the property. The original owner may sign as the property owner only if he or she has a copy of Life Estate or Living Trust documents. A copy of the Life Estate or Living Trust documents must be maintained in the contractor's customer file.

### **2.6.4. Power of Attorney (POA)**

In cases where the property owner is not available to sign on the Agreement, any person having a Power of Attorney (POA) for that owner may sign the Agreement. A copy of the POA must be maintained in the Contractor's records.

### **2.6.5. Property Management Companies**

Authorized representatives of property management companies may sign for property owners for both single family and multifamily agreements under either of the following conditions: the property management company has a standard Power of Attorney agreement with the property owner; or the property management company has a signed Management Agreement with the owner authorizing the property management company to act as the agent for the specific property. A copy of the Power of Attorney or the Management Agreement must be kept in the contractor's files for that customer.

## **2.7 Treatment of Rental Units**

### **2.7.1. Property Owner Approval**

Rental units may not be treated until a written Property Owner Waiver has been received. This approval must cover the participation of the unit in the Program as well as the installation of specific measures. If approval of the legal owner is not received prior to the installation of measures, the Contractor will be required to reimburse the utility for all payments received from the utility for treating the unit(s) in question.

### **2.7.2. Eligibility of Rental Units for Certain Measures**

Assuming that the permission of the property owner has been approved and that other eligibility conditions are met, rental units may be treated under the Program. However, the following policies relating to specific measures will be applied:<sup>9</sup>

- Rental units are eligible for evaporative coolers, refrigerators and hard-wired fixtures.
- Rental units are not eligible for furnace replacements or major furnace repairs. However, minor repairs and adjustments may be made to furnaces if these actions would improve the performance of the system at a minimal cost.
- Evaporative coolers and hard-wired fixtures should be provided without charge to either the tenant or the landlord. Refrigerator replacements should also be provided at no charge if the units belong to the tenants. However, if the refrigerator is owned by the landlord, the utilities may make payments to installation contractors that cover only part of the cost of replacement.

## **2.8 Previous Weatherization**

In order to provide services to the widest range of low-income households possible, the utilities place certain restrictions on the participation of homes that have previously been treated under the LIEE Program. These restrictions are as follows:

- If utilities pre-screen customer lists before providing them to service providers, utilities may target homes that have not yet participated in the LIEE Program.
- In general, homes that have been weatherized under the LIEE Program within the past 10 years are not eligible for weatherization in the current program.<sup>10</sup> However, a home that has been treated under the LIEE program during the past 10 years will be considered eligible for participation if the home needs ceiling insulation, and if ceiling insulation was previously deemed non-feasible as a result of a structural inadequacy (e.g., knob and tube wiring) that has since been resolved or is no longer considered to result in non-feasibility. Moreover, any unit that previously failed a combustion appliance safety pre-test, and therefore did not receive infiltration-related measures (but received other measures) shall be considered eligible for the measures it did not receive if the test is subsequently passed during the 10 year window. Other exceptions may be granted with the written approval of the utility Administrator's Program Manager.

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<sup>9</sup> Note that policies with respect to the eligibility of rental units may temporarily differ from those employed under the policy of Rapid Deployment. See Appendix D.

<sup>10</sup> As indicated in Section 2.9, the provision of CFLs and/or energy education does not constitute program participation in the context of this statement.

- In the event that a home is determined to be ineligible because of previous participation in the program, occupants may still be referred to group energy education if it is offered.

## **2.9 Need for LIEE Services**

A home must need a minimum amount of weatherization in order to be eligible for participation in the Program, either for measure installation or for on-site energy education. The following eligibility conditions will be applied:

- In an area served by an investor-owned combined gas and electric utility (e.g., an area in which SDG&E or PG&E serves both electricity and natural gas) or an electric-only utility (SCE), the minimum would be either ceiling insulation, or evaporative cooling, or refrigerator replacement, or three other measures.
- In an area served by an investor-owned gas utility but not an investor-owned electric utility, the minimum would be either ceiling insulation or three other measures that are covered under the gas utility's LIEE Program.
- In an area served by different investor-owned gas and electric utilities (e.g., the SCE-SoCalGas overlap area), the following minimums will apply: for the gas utility program, ceiling insulation or three gas measures or furnace repair/replacement; for the electric utility, an evaporative cooler, a refrigerator replacement, ceiling insulation or three other measures affecting electric usage.

However, electric utility or dual fuel outreach/education personnel will install up to five (5) CFLs at the time of the assessment of the home. Moreover, occupants not meeting the minimum number of Program measures may be referred to group energy education if it is offered. The provision of CFLs and/or the provision of group education does not constitute program participation from the standpoint of determining future Program eligibility. That is, it does not restart the 10-year clock used to determine Program eligibility. However, the utilities will track the installation of CFLs in homes receiving only CFLs or CFLs and energy education, and will not pay for the installation of additional CFLs in these homes within a period of seven years.

If a utility uses a pre-approval process in its Program, the minimum standards will be applied only to pre-approved measures. If a utility uses pre-approval and the denial of pre-approval (e.g., because of CO problems) causes the home to fail to meet the minimum number of measures, on-site energy education may still be offered to the occupants of that home.

For all homes meeting the minimum for necessary measures, all feasible measures must be installed.<sup>11</sup> As stipulated in the standard non-feasibility criteria, if a measure is already in

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<sup>11</sup> If a customer refuses a measure, that measure is considered non-feasible. See Section 7.

place and operating properly, even if it does not meet the current Installation Standards for new installations, it should not be removed and replaced.

# 3

## Customer Outreach and Customer Relations

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### 3.1 Introduction

This section presents statewide LIEE policies and procedures in the areas of customer outreach and customer relations. Subsection 3.2 discusses policies relating to the recruitment of participants for the Program, while Subsection 3.3 focuses on the maintenance of proper relationships with customers. It should be understood that the policies in this section are supplemented by additional provisions in both specific and general terms and conditions included in formal agreements between utilities and contractors.

### 3.2 Customer Outreach

Contractors recruiting customers for participation in the LIEE Program are required to follow strict policies relating to customer outreach. Customer outreach policies cover promotional guidelines, limitations on representations made by contractors and their employees, outreach interactions, and tracking.

#### 3.2.1. *Promotional Guidelines*

Only promotional materials approved by the Utility Program Manager may be used to promote participation in the LIEE Program.

#### 3.2.2. *Representations by Contractor and Contractor's Employees*

Neither the contractor nor his/her employees may imply that they are employees of the Utility or affiliated with the Utility in any way other than through the LIEE Program.

#### 3.2.3. *Outreach Interaction*

Outreach personnel must effectively contact and interact with a diverse set of customers. These personnel shall have available any necessary multilingual staff and/or translators.

### **3.3 Customer Relations**

#### **3.3.1. Introduction**

It is imperative that both contractors and utility employees maintain proper customer relationships. The LIEE Program is a customer service program, and should be delivered accordingly. Specific policies with respect to customer relations are specified below.

#### **3.3.2. Expedient Service**

Service must be provided to participants in a reasonable time frame, as determined by the utility. Crews must inform customers of the approximate amount of time required for installations, inspections and gas appliance testing (if required), and shall provide services as expeditiously as possible.

#### **3.3.3. Other Work**

Only three types of work for participating customers may be billed to the LIEE Program: energy education, the installation of eligible measures, and the provision of eligible minor home repairs. The contractor is prohibited from selling other services to the customer or charging the customer for any other service.<sup>1</sup>

#### **3.3.4. Staff Identification**

All contractor or subcontractor employees who engage in customer contact must wear identification badges provided or approved by the utility at all times. Each badge must include a color photo of the employee. If the contractor produces badges, templates for identification badges will be provided by the utility. The contractor shall immediately return or destroy the ID badges of all personnel no longer working for the contractor or its subcontractors on the LIEE Program. In the event that the contractor destroys the badges, the contractor shall notify the Program Administrator in a timely fashion.

#### **3.3.5. Crew Appearance**

LIEE contractors are responsible for the courtesy and appearance of their employees. Discourteous personnel and unprofessional appearance will not be tolerated in this program and may constitute grounds for contract termination.

#### **3.3.6. Clients 18 Years or Older**

In general, contractors shall enter clients' residences only when adults, eighteen (18) years of age or older are present. The only exception to this rule is that contractors may enter the

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<sup>1</sup> Note that this provision does not preclude the possibility of requiring a copayment for the installation of one or more measures, if approved by the utility.

home of a customer under eighteen (18) years of age if the customer is married or has been declared an emancipated minor by the courts.

### **3.3.7. Customer Complaint Procedures**

Outreach workers must provide each customer with a copy of the Customer Bill of Rights (including the complaint procedure) when customer eligibility for the Program is established. A copy of the Bill of Rights is attached to this document as Appendix A. The contractor must make every effort to resolve customer complaints. The Contractor must notify the utility or its designee of the status of each complaint within 24 hours of the contractor's receipt of the complaint. If the complaint deals with customer safety, the contractor must resolve it within 24 hours. If the complaint does not relate to customer safety, the contractor must resolve the complaint to the satisfaction of the customer within 10 days of the receipt of the complaint. The acceptability of the contractor's resolution of complaints will be determined at the sole discretion of the utility. If the contractor has not resolved the complaint within the mandated period, the contractor shall notify the utility or its designee of this failure.

### **3.3.8. Substance Abuse and Smoking Policy**

While at the customer sites, contractor personnel shall not be under the influence of drugs or alcohol nor be using drugs or alcohol when on the job. Smoking is prohibited within the residence being served at all times and on the customer's property without the customer's approval.

### **3.3.9. Incident Report**

Contractors must immediately contact the utility or its designee if during a home visit there is damage to a customer's home and/or property or if the contractor's employee has been accused of an illegal act. Within 24 hours, the contractor will inform the utility or its designee of the resolutions of all such incidents.

# 4

## Procedures for Pre-Installation Contacts

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### 4.1 Introduction

This section describes the procedures to be followed by outreach workers and contractors during pre-installation visits to a participating home. These procedures cover the provision of general program information, the collection of data on the household and the home, the administration of home energy education, the completion of the home energy audit, and the installation of CFLs.

### 4.2 Description of Program Services

In the course of the initial home visit, the outreach worker shall provide a thorough description of the program services available to the low-income household. At a minimum, this description must cover the following services:

- The LIEE Program, including program goals, eligibility requirements, eligible measures, and procedures. The procedures to be covered by this description must encompass customer rights (as specified in the Customer Bill of Rights, which is attached as Appendix A), energy education, weatherization services, general installation procedures, inspection procedures, and natural gas appliance testing procedures (if applicable).
- Other programs designed to repair/replace furnaces or install other energy efficiency measures (if these are offered as separate programs).
- The California Alternate Rates for Energy (CARE) Program. Outreach workers will also provide assistance in enrolling the customer in CARE if the customer chooses to participate in it.
- Other utility programs designed to provide services to low-income customers, including level-payment programs, medical baseline programs, and other energy efficiency programs for which the customer may be qualified.
- Similar programs offered by DCSD and other known energy related programs.

The outreach worker may also describe government programs like the Internal Revenue Service's earned income tax and the State of California's Healthy Families Program.

### **4.3 Data Collection**

During the initial interview, the outreach worker will also collect data needed to document eligibility and to meet tracking and reporting requirements. In general, information on the following factors must be collected:

- Name, address and phone number of applicant or head of household;
- Age and disability status of applicant or head of household;
- Residence type and dwelling status;
- Referral information;
- Gas and/or electric account information;
- Appliance/system information; and
- Home square footage.

Demographic data may also be collected if offered by the customer.

### **4.4 In-Home Energy Education**

In-home energy education will be provided to all homes eligible for this service, using forms and checklists provided by the utilities. Energy education will cover five general areas: heating and cooling usage, water heating system usage, major electric and gas appliance usage, small appliance usage, and lighting usage. Topics to be covered in the course of energy education must include:

- The general levels of usage associated with specific end uses and appliances.
- The impacts on usage of individual energy efficiency measures offered through the LIEE Program or other Programs offered to low-income customers by the utility;
- Practices that diminish the savings from individual energy efficiency measures, as well as the potential cost of such practices;
- Ways of decreasing usage through changes in practices;
- Information on CARE, the Medical Baseline Program, and other available programs;
- Appliance safety information;
- The way to read a utility bill; and
- The procedures used to conduct natural gas appliance testing (if applicable).

#### **4.5 In-Home Energy Assessment**

An assessment of the structure will be completed using a form provided by the utility. The assessment will identify measures to be installed through the Program. The presence of natural gas appliances will be determined. Assessment forms will be provided by the utility.

#### **4.6 Installation of Compact Fluorescent Light Bulbs**

The electric or dual-fuel utility outreach worker will install compact fluorescent light bulbs during the initial home visit. The number of compact fluorescent light bulbs installed will depend on unit type, feasibility and amount of time each lighting fixture is used (3.5 hours minimum); however, no more than five (5) bulbs may be installed in a home. Leaving compact fluorescent light bulbs with customers for installation at a later time is not allowed.

#### **4.7 Other Responsibilities**

During the course of the initial home visit, income documentation will be collected and property owner approval will be obtained. These requirements are discussed in Section 2.

# 5

## Program Measures

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### 5.1 Introduction

This section identifies the energy efficiency measures available through the PY2002 LIEE Program and discusses the means by which changes in eligible measures are made over time. Subsection 5.2 focuses on measures offered under the PY2002 program, while Subsection 5.3 outlines the process that will be used to evaluate measures for inclusion in the Program in future years.

### 5.2 Program Measures for PY 2002

Table 5-1 indicates the specific weatherization measures that are eligible for the LIEE Program for PY 2002. It should be noted that additional measures are offered on a pilot basis under the Rapid Deployment policy. These Rapid Deployment measures are listed in Appendix B.

### 5.3 Consideration of Additions to and Deletions from Measure List

Utilities will jointly evaluate additions and deletions of measures in the course of developing recommendations for subsequent year programs. This process is open to input from other parties. Parties recommending changes in eligibility for a specific measure must offer information regarding the factors to be used in assessing eligibility. The utilities will jointly evaluate these measures using all available information on both cost effectiveness and impacts on hardship, and develop a set of recommendations for CPUC approval. If warranted by the evidence, these recommendations may vary across climate zones.

**Table 5-1: Eligible Measures for PY 2002**

Measure	SCE Non-Overlap Area	SCE/SoCal Overlap Area		SDG&E	PG&E
		SoCal Program	SCE Program		
Attic Insulation	Yes	Yes	No (5)	Yes	Yes
Low Flow Showerheads	Yes	Yes	No (5)	Yes	Yes
Water Heater Blankets	Yes	Yes	No (5)	Yes	Yes
Door Weatherstripping	Yes	Yes	No (5)	Yes	Yes
Caulking	Yes	Yes	No (5)	Yes	Yes
Outlet Gaskets	Yes	Yes	No (5)	Yes	Yes
Faucet Aerators	Yes	Yes	No (5)	Yes	Yes
Pipe Wrap	Yes	Yes	No (5)	Yes	Yes
Evaporative Coolers	Yes (1)	No	Yes (1)(4)	Yes (1)	Yes (1)
Furnace Repair/Replacement	Yes	Yes	No (5)	Yes	Yes
Refrigerator Replacement	Yes	No	Yes (4)	Yes	Yes
Attic Ventilation	No (3)	No (3)	No (5)	Yes (2)	Yes (2)
Evaporative Cooler Covers	No	Yes	No (5)	Yes	Yes
Hard-Wired Compact Fluorescent Porch Light Fixtures	Yes	No	Yes (4)	Yes	Yes
Thread-In Compact Fluorescent	Yes	No	Yes (4)	Yes	Yes
Furnace Filter Replacement	No	No	No	No	Yes
Duct Register Sealing	No	No	No (5)	Yes (6)	No

Notes:

- (1) PG&E offers a portable evaporative cooler, while the other electric utilities offer a window/wall unit.
- (2) Offered in conjunction with attic insulation, and as a measure on a pilot basis, per E-3586.
- (3) Offered only in conjunction with attic insulation.
- (4) Not offered by SoCalGas, but offered by SCE outside the jointly administered SoCalGas/SCE program.
- (5) Offered to SCE customers by SoCalGas under joint utility agreement.
- (6) Mobile homes only

# 6

## Minor Home Repairs

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### 6.1 Introduction

This section describes the LIEE policies and procedures relating to minor home repairs and furnace repairs and replacements. Section 6.2 discusses the specific minor home repairs provided through the LIEE Program. Section 6.3 describes Program limits on expenditures on minor home repairs and furnace repairs and replacements. Finally, Section 6.4 describes the prioritization criteria that will be used by Program Managers to prioritize repairs for a specific home when not all needed minor home repairs can be made within the constraints of the budget limits for that home.

### 6.2 Minor Home Repairs

Minor home repairs are repairs required to enable installation of weatherization measures, to reduce infiltration, or to mitigate a hazardous condition. It is the general policy of the LIEE Program that these repairs must be made if they are needed and feasible, subject to budgetary limits. Tables 6-1 through 6-7 present the minor home repairs that are provided under the LIEE Program. Table 6-1 lists general structural repairs. Table 6-2 enumerates repairs required to mitigate catastrophic envelope leaks. Table 6-3 lists repairs necessary to support the installation of ceiling insulation. Table 6-4 lists repairs required to support weatherstripping and caulking. Table 6-5 indicates repairs required to install attic ventilation. Table 6-6 lists repairs required to support the installation of water heating measures. Finally, Table 6-7 enumerates repairs made to mitigate imminent hazards.

**Table 6-1: General Repairs**

<p><b>Small holes in interior surface of wall between conditioned and unconditioned Space</b></p> <ul style="list-style-type: none"> <li>■ Repair holes 1” in diameter or smaller</li> <li>■ Repair holes between 1” and 6”</li> </ul>	<p><b>Windows</b></p> <ul style="list-style-type: none"> <li>■ Replace glazing compound</li> <li>■ Replace glass</li> <li>■ Replace sash<sup>1</sup></li> <li>■ Repair or replace mullions/muntins<sup>1</sup></li> <li>■ Install new window (not just glass)<sup>1</sup></li> <li>■ Install casing</li> </ul>
<p><b>Exterior wall</b></p> <ul style="list-style-type: none"> <li>■ Patch stucco (up to 36 in<sup>2</sup>)</li> <li>■ Replace missing siding</li> </ul>	

Table 6-2: Repairs Required to Mitigate Catastrophic Envelope Leaks

<p><b>Large holes in interior surface of wall between conditioned and unconditioned Space<sup>2,3</sup></b></p> <ul style="list-style-type: none"> <li>■ Repair large portion of drywall or plaster (up to 4 ft<sup>2</sup>).</li> <li>■ Replace entire drywall or wood panels (up to 8 ft<sup>2</sup>).</li> </ul>	<p><b>Windows and Doors</b></p> <ul style="list-style-type: none"> <li>■ Replace entire window<sup>1</sup></li> <li>■ Replace entire door<sup>1</sup></li> </ul>
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**Table 6-3: Repairs Required to Support Installation of Ceiling Insulation**

<p><b>Attic access</b></p> <ul style="list-style-type: none"> <li>■ Install weatherstripping</li> <li>■ Repair access panel</li> <li>■ Replace molding around access</li> <li>■ Cut new access hole/opening (interior only and only between joists)</li> </ul>	<p><b>Retractable ladder</b></p> <ul style="list-style-type: none"> <li>■ Install cover</li> <li>■ Install frame and cover</li> <li>■ Weatherstrip opening</li> </ul>
<p><b>Reconnect Duct</b></p>	<p><b>Repair holes in ceiling</b></p>
<p><b>Seal Return Plenum</b></p>	<p><b>Exhaust vent</b></p> <ul style="list-style-type: none"> <li>■ Repair/replace bath vent pipe</li> <li>■ Repair/replace kitchen vent pipe</li> </ul>
<p><b>Closet vent/ceiling</b></p> <ul style="list-style-type: none"> <li>■ Cover vent with flexible insulation</li> <li>■ Install solid material to cover opening</li> </ul>	

<sup>1</sup> Replaced only with Program Manager’s approval on a case-by-case basis.

<sup>2</sup> Structural/framing members not included.

<sup>3</sup> Surface left in a prepared-for-paint condition.

**Table 6-4: Repairs Required to Support Weatherstripping and Caulking**

<p><b>Door Replacement</b></p> <ul style="list-style-type: none"> <li>■ Install door stops</li> <li>■ Replace door</li> <li>■ Replace door jamb</li> <li>■ Plane bottom of door</li> <li>■ Cut off bottom of door</li> <li>■ Replace interior casing</li> <li>■ Replace exterior casing</li> <li>■ Replace complete pre-hung door unit</li> <li>■ Adjust hinges</li> <li>■ Replace hinges</li> <li>■ Adjust loose screws</li> </ul>	<p><b>Door Replacement (cont.)</b></p> <ul style="list-style-type: none"> <li>■ Replace lock</li> <li>■ Replace existing night latch</li> <li>■ Install/adjust striker plate</li> <li>■ Repair/replace subseal<sup>4</sup></li> </ul>
	<p><b>Threshold Repairs/Replacement</b></p> <ul style="list-style-type: none"> <li>■ Install new threshold</li> <li>■ Seal threshold</li> <li>■ Install riser</li> </ul>
	<p><b>Caulking Preparation</b></p> <ul style="list-style-type: none"> <li>■ Install backer rod</li> <li>■ Clean surface of dirt and oils</li> </ul>

**Table 6-5: Repairs Required to Install Attic Ventilation**

<p><b>Gable vent</b></p> <ul style="list-style-type: none"> <li>■ Install new vent</li> <li>■ Replace screen</li> <li>■ Repair existing wooden vent</li> </ul>	<p><b>Eave/soffit</b></p> <ul style="list-style-type: none"> <li>■ Clean screen</li> <li>■ Replace screen</li> <li>■ Install new vent</li> </ul>
<p><b>Turbine/dormer</b></p> <ul style="list-style-type: none"> <li>■ Install new vent</li> <li>■ Repair existing vent</li> </ul>	

**Table 6-6: Repairs Required to Install Water Heating Measures**

<ul style="list-style-type: none"> <li>■ Install combustion air vent</li> <li>■ Install showerhead adapter</li> </ul>
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<sup>4</sup> Subseal is directly under the riser which is directly under the threshold.

**Table 6-7: Repairs Required to Mitigate Imminent Hazards**

<ul style="list-style-type: none"><li>■ Replace broken/cracked switch/outlet covers</li><li>■ Clear covered combustion air vent</li><li>■ Provide additional combustion air</li><li>■ Remove combustible and flammable materials from combustion air vent proper clearance zone.</li><li>■ Repair door locks/latches on doors that will not close or lock.</li></ul>
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### **6.3 Limits on Minor Home Repairs and Furnace Repairs and Replacements**

There are three types of limits on costs incurred for minor home repairs and furnace repairs and replacements:

- **Average Cost Limits.** These are limits on the average cost of categories of service across all homes receiving the service in question. They are designed to provide overall cost control for the provision of these services.
- **Individual Home Limits.** These are defined as limits on the cost that can be incurred for an individual home without the specific approval of the utility Program Manager. Individual home limits are meant to provide for equity in the distribution of program funds across individual households but yet provide Program Managers enough flexibility to respond to individual customer needs and hardship situations.
- **Program Budget Limits.** Total expenditures on the combination of minor home repairs and furnace repairs and replacements are limited to 20% of total program expenditures. In the event that a utility expects that it may exceed this level, it may request a relaxation of this guideline via an advice letter on a case by case basis.

These limits are presented in Table 6-6. It should be noted that the expenditure limits apply to all minor home repairs and furnace repairs and replacements, including any actions taken to respond to gas leak/carbon monoxide emission problems identified during the utility's gas appliance testing procedures.

**Table 6-6: Caps on MHRs and Furnace Repairs/Replacements**

Service	Average Cost per Home Receiving Service	Cost for Individual Home without Approval of Program Manager	Expenditures as a % of Total Program Expenditures
Minor Home Repairs	\$300	\$750	-
Furnace Repairs and Replacement (Total Combined Cost for home receiving one or the other)	\$1,200	\$1,750	-
Furnace Repairs (restriction on repair expenditures relative to cost of replacement)	-	Cost of furnace repair capped at 50% of the cost of a new unit.	-
Sum of MHR, Furnace Repair and Replacement	-	\$2,000	20%

## 6.4 Prioritization of Minor Home Repairs

In the event that a contractor requests permission from the utility Program Manager to exceed the limit on minor home repairs or the combination of minor home repairs and furnace repairs and replacements, the Program Manager will base a decision on the status of the Contractor’s minor home repair budget, the overall program budget, and the need for the repairs in question. If the Program Manager deems it necessary to limit expenditures on the home, measures will be prioritized using the following general priority list:

- Repairs needed to mitigate imminent hazards (e.g., repairs made to mitigate carbon monoxide problems, or door repairs where doors will not close or lock);
- Repairs needed to mitigate major infiltration sources (e.g., broken windows, holes in doors, etc.);
- Repairs required to permit the installation of a measure;
- Other repairs.

# 7

## Measure Installation Policies and Procedures

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### 7.1 Introduction

This section presents LIEE policies for Program measures that are covered in the WIS manual. Subsection 7.2 specifies general policies that apply to all measures, including contractor installation, installation standards, safety, site clean up and other policies. Subsection 7.3 identifies nonfeasibility criteria and other policies applicable to individual measures and minor home repairs that are contained in the Statewide WIS manual. These measure-specific policies are also listed in the WIS Manual. Measure-specific policies and procedures relating to Rapid Deployment measures are presented in Appendix D.

### 7.2 General Installation Policies

#### 7.2.1. Introduction

Several general policies relating to the installation of Program measures must be followed by installation personnel. These policies are presented below.

#### 7.2.2. Installation by Contractor

Measures must be installed by the contractor. Dropping off materials for later installation by the customer is not permitted under this Program.

#### 7.2.3. Installation Standards

All measures must be installed in conformance with the California LIEE Installation Standards, as prescribed by two documents: *California Conventional Home Weatherization Installation Standards* and *California Mobile Home Weatherization Installation Standards*. These standards are intended to meet or exceed existing codes and regulations, and to conform to accepted building practices. When a conflict exists between these installation standards and local codes, the more stringent requirement shall take precedence. Copies of these installation standards manuals may be obtained by using the contact information provided in Section 1.3.

#### **7.2.4. Safety**

Contractors must plan and conduct all work in a manner that is consistent with the safety of persons and property. All work shall be conducted in compliance with reasonable and safe working practices and with applicable federal, state and local laws. For instance, the Contractor is responsible for complete compliance with California Occupational Safety and Health Standards.

It is the responsibility of each program contractor to establish and maintain a safety program for all work undertaken for the LIEE Program. It is also the responsibility of each contractor to ensure that all employees observe safety rules by complying with all required safety precautions and regulations. Contractors must ensure that their staff members receive appropriate training in the safe and proper use of the tools associated with the installation of each weatherization measure.

#### **7.2.5. Installation of Feasible Measures**

It is the policy of the CPUC that LIEE Program Contractors must install all feasible measures unless they are specifically refused by the participating household. If the installer determines that a measure cannot be installed, the reason shall be recorded and made available to the utility or its designee.

#### **7.2.6. Lead-Safe Practices**

Lead-safe practices shall be employed when working with pre-1979 painted materials per Title 8 of the California Code of Regulations, Section 1532.1, and Title 17 of the California Code of Regulations, Section 36000, et seq. Contractor shall also observe the lead-safe practices set forth in the LIEE WIS Manual.

#### **7.2.7. Site Clean-Up Policies**

The Contractor must maintain all work sites and related structures, equipment and facilities in a clean, orderly condition during all work conducted under the LIEE Program. Any unused or leftover materials, garbage and debris must be promptly removed from the customer's premises by the Contractor and disposed of at the Contractor's expense. The customer's premises must be left in a clean and orderly condition at the end of each day and at the completion of work.

#### **7.2.8. Weatherization of Mobile Homes**

Mobile homes with open combustion furnaces drawing air from inside the conditioned space may not have infiltration reduction measures installed under the LIEE Program. In addition, ceiling insulation (and therefore attic duct reconnection) is not a measure for mobile homes.

## 7.3 Measure-Specific Policies

### 7.3.1. Introduction

This section describes Statewide LIEE policies and procedures that are specific to the installation of the measures and minor home repairs that are contained in the WIS manual. The two kinds of policies and procedures covered are:

- Nonfeasibility criteria and
- Other policies and procedures associated with the measures and minor home repairs contained in the WIS manual.

Nonfeasibility criteria formalize conditions under which measures *may not* be installed in specific homes. In general, nonfeasibility conditions refer to cases where a specific measure:

- Is present,
- Is refused by the customer,
- Cannot be physically installed,
- Cannot be installed without risk to the household or the contractor, or
- Is prohibited by code.

Other policies and procedures are those policies which typically tell when, where, and under what circumstances a measure can be installed. Policies related to billing practices are excluded from this list, but may be covered by utility contracts with installation contractors.

Nonfeasibility criteria and other policies and procedures are presented for the following weatherization program measures:

- Caulking
- Weatherstripping Doors
- Ceiling Insulation
- Water Heater Insulation
- Water Heater Pipe Insulation
- Cover Plate Gaskets
- Energy Saver Showerheads and Faucet Aerators
- Cover Plate Gaskets
- Evaporative Cooler and Air Conditioner Vent Covers
- HVAC Unit Air Filter Replacement
- Exterior Door Replacement
- Window Replacement
- Glass Replacement
- Thread-Based Compact Fluorescent Lamps
- Hard-Wired Compact Fluorescent Lamp Porch Light Fixtures
- Evaporative Cooler Installation
- Furnace Repair and Replacement
- Refrigerator Replacement

Additional nonfeasibility criteria and policies and procedures applicable to Rapid Deployment measures are contained in Appendix D.

### **7.3.2. Caulking**

**Nonfeasibility Criteria.** Caulking shall not be applied:

- If the existing caulking is properly installed to installation standards.
- To cracks that do not penetrate the building envelope.
- To cracks that are too wide to be caulked (wider than 5/8") and must be repaired/patched.
- If customer refuses caulking.

**Other Policies and Procedures.** Three other policies and procedures relate to caulking:

- For homes with lapped siding, caulk shall be applied in standard locations such as door thresholds, door stops, and gaps between different materials, etc. However, seams between lapped siding must not be caulked.
- Exterior caulking above the first floor of a structure is not required. Work above the first floor may be considered on a case-by-case basis and required for major penetration.
- Caulking should be applied to the interior of mobile homes only.

### **7.3.3. Weatherstripping Doors**

**Nonfeasibility Criteria.** Weatherstripping shall not be applied:

- If the existing weatherstripping is properly installed to installation standards.
- If the door is located between two conditioned or two unconditioned spaces.
- To doors in multi-unit dwellings that separate the living space from heated hallway.
- To doors that have a fire rating greater than 20 minutes.
- When a functional storm door is present.
- If the customer refuses installation of weatherstripping.

Weatherstripping shall not be applied to appliance closet doors when:

- The combustion appliance receives air from conditioned space (i.e. combustion air grilles present in the enclosure door or wall).

- Inadequate combustion air (as defined in these installation standards) is being supplied to the appliance.<sup>1,2</sup>

**Other Policies and Procedures.** Additional weatherstripping policies and procedures include:

- Existing weatherstripping that is functional and operating properly shall not be replaced, even if it is not an approved material.
- The contractor may adjust existing weatherstripping in lieu of replacement only if existing weatherstripping is functional and creates a proper seal.
- Door shoe and threshold combinations must be installed unless proven to be nonfeasible
- A threshold should not be installed if it will create a tripping hazard.
- When the installation of a door shoe and threshold combination is not feasible for the following reasons, an automatic sweep may be used:
  - Medical reasons, such as wheelchairs or walkers, require that the floor be as flat as possible.
  - Metal doors cannot be cut to accommodate a shoe.
  - Doors open outward and do not overlap a floor surface when closed. "Bumper" type thresholds may be used in this circumstance if a tripping hazard will not be created.
  - The installation of a proper threshold requires carpet cutting or repair to wooden or concrete sills.
  - The door is unusually expensive and might be aesthetically damaged by cutting.
- A stationary sweep can be used in lieu of an automatic sweep if a door shoe and threshold combination is not feasible and an automatic sweep cannot be installed. The use of flip up sweeps is not allowed.

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<sup>1</sup> This restriction covers two situations: when existing vents are inadequate, and when adequate vents can not be added as a minor home repair.

<sup>2</sup> An appendix to the Weatherization Installation Standards Manual establishes guidelines for increasing the vent air, i.e. changing 1/8" mesh to 1/4" mesh, how to enlarge the vents, etc..

### 7.3.4. Ceiling Insulation

**Nonfeasibility Criteria Directly Related to Ceiling Insulation.** Ceiling insulation shall not be installed if:

- The existing insulation is properly installed to installation standards.
- The roof is leaky or shows signs of water damage from leaks that have not been repaired.
- Adequate venting is not present and can not be installed per installation standard attic ventilation guidelines.<sup>3</sup>
- Hazardous electrical wiring or other hazardous conditions are present.
- An enclosed cavity as defined in the installation standards is present.
- Exhaust vents terminating in the attic that can not be vented to the outside<sup>4</sup>.
- Disconnected or damaged space heating / cooling ducts are present and can not be repaired.
- Attics having limited accessibility, as indicated when:
  - An inspector can not gain safe physical access to all treated areas of the attic.
  - There is less than 24" clearance between top of ceiling joist and bottom of ridge board.
  - Interior or gable access meeting installation standard guidelines is not present and can not be installed.
  - Non-structural obstructions are present.
- An unsound structure that will not support the weight of the insulation and installer is present, such as but not limited to:
  - 2" × 4" rafters 48" on center
  - Bowed and sagging joists
  - Fiberboard ceiling material
  - ¼" dry wall ceiling
- Knob-and-Tube (K&T) Wiring is present and:
  - Functioning knob-and-tube wiring can not be certified safe by a C-10 contractor.
  - Abandoned K&T wiring is present and has not been disconnected and/or certified as abandoned by a C-10 contractor.
  - Insulation over K&T wiring (live or abandoned) is prohibited by local codes.

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<sup>3</sup> An appendix to the Weatherization Installation Standards Manual addresses all aspects of vent area determination.

<sup>4</sup> This covers two situations that are covered as minor home repairs: Reconnecting exhaust vents and/or addition of exterior venting as covered in the WIS manual.

- The customer refuses installation of ceiling insulation.

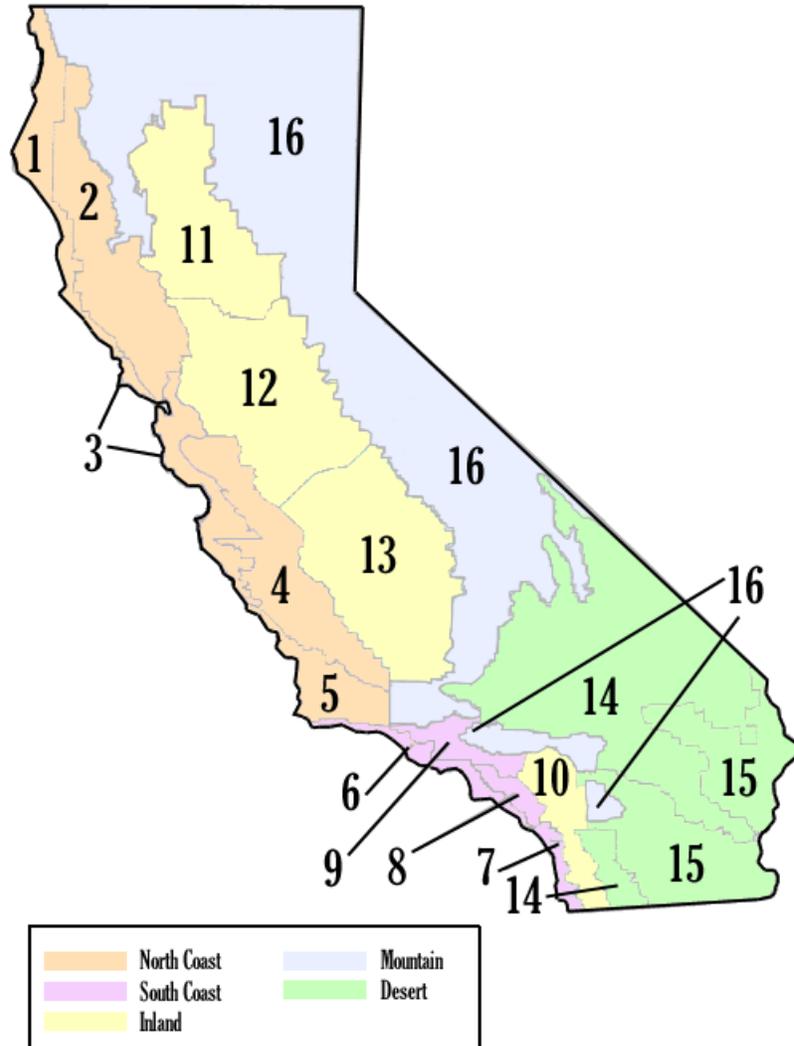
**Ceiling Insulation Levels.** The level of insulation to be installed varies across climate zones and existing insulation levels, as shown in Table 7-1.

**Table 7-1: Ceiling Insulation Additions**

<b>Climate Zone</b>	<b>Existing Ceiling Insulation Level</b>	<b>Insulation to be Added</b>
<b>North Coast</b>	R-0 (uninsulated)	R-30
	R-1 to R-11	R-19
	R-12 to R-19	None
	Above R-19	None
<b>South Coast</b>	R-0 (uninsulated)	R-19
	R-1 to R-11	None
	R-12 to R-19	None
	Above R-19	None
<b>Inland</b>	R-0 (uninsulated)	R-19
	R-1 to R-11	R-11
	R-12 to R-19	None
	Above R-19	None
<b>Desert</b>	R-0 (uninsulated)	R-30
	R-1 to R-11	R-19
	R-12 to R-19	None
	Above R-19	None
<b>Mountain</b>	R-0 (uninsulated)	R-38
	R-1 to R-11	R-19
	R-12 to R-19	R-19
	Above R-19	None

Figure 7-1 depicts the weather zones used in this table (*North Coast, South Coast, Inland, Desert, Mountain*) in terms of the component California Energy Commission (CEC) climate zones. Appendix C contains a list of the zip codes contained in each weather zone.

Figure 7-1: Proposed Climate Zones for Attic/Ceiling Insulation Levels



**Other Policies and Procedures Directly Related to Ceiling Insulation.** The other key policies that directly apply to ceiling insulation include:

- In cases where local legislation mandates more insulation than required by the LIEE Program, contractors may do so only after forwarding documentation of the requirements and obtaining written authorization from the LIEE Program Manager.
- When no attic access exists, contractors will install one prior to installing ceiling insulation.
- If the gable vent is used for attic access, it must be hinged and large enough to provide access for the inspector.

- In the event holes are observed in attic fire walls while performing attic insulation, the prime contractor will document and notify the property owner of the existing condition.
- There is no minimum attic square footage required for ceiling insulation.
- Homes having (a) separate attics, or (b) contiguous attics consisting of different sections with various crawl clearances shall have insulation installed only in the sections which have the specified 24" clearance.

**Nonfeasibility Criteria Relating to Duct Reconnection.** Reconnection of ducts shall not be performed if:

- The reconnection work would disturb asbestos or other hazardous material.
- A combustion-related hazard exists with furnace or other fuel burning appliance (e.g., excessive CO, cracked heat exchanger, backdrafting, etc.).
- A health or safety hazard is present, such as sewage waste in the crawlspace, insect infestation, hazardous electrical wiring, or a structural hazard.
- The customer refuses duct reconnection.

**Other Policies and Procedures Relating to Duct Reconnection.** There are no other policies that apply to catastrophic duct leak reconnection.

**Nonfeasibility Criteria Relating to Attic Ventilation.** Attic Ventilation shall not be installed if:

- The existing venting is properly installed to installation standards.
- Tiled hip roof without overhang, soffit, or accessible frieze blocks.
- Ceiling insulation is nonfeasible.<sup>5</sup>
- Roof-mounted vents are the only option for adding venting, but the roof is tile, wood shingles, or in poor condition (e.g. more than three layers of roofing, roof unable to support additional vents).
- The roof is a flat and/or built-up roof as defined in the installation standards.
- The customer refuses installation of additional vents.

**Other Policies and Procedures Relating to Attic Ventilation.** There are no other policies that apply to attic ventilation.

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<sup>5</sup> Subject to reconsideration after evaluation of results from SDG&E and PG&E pilot programs currently underway to assess the effectiveness of attic ventilation as a stand-alone measure. Results should be available in 2002.

### 7.3.5. Water Heater Insulation

**Nonfeasibility Criteria.** A water heater blanket shall not be installed on any water heater if:

- The existing blanket is properly installed to installation standards.
- External insulation is specifically prohibited by the manufacturer.
- The T&P valve is not present, or is not located within 6” of the tank.
- The T&P valve outlet is plugged or capped.
- The tank is exposed to the weather.
- A leak in the tank or water pipes is present.
- Plastic piping (e.g., PVC) is present in the cold or hot water lines to/from the tank.
- The tank is located within 12” of a stove, range, or cooktop.
- The water heater tank capacity is greater than 100 gallons.
- Perimeter clearances prior to blanket installation:
  - For gas water heaters with non-metal doors, are less than 4” between tank and door, and less than 1” on sides and back.
  - For electric and gas water heaters with metal doors, are less than 1” on the front, sides, and back.
- The customer refuses installation of a water heater blanket.

A water heater blanket shall not be installed on a gas water heater if:

- A gas leak is present.<sup>6</sup>
- The vent pipe and/or draft hood is not properly installed including:<sup>6</sup>
  - No draft hood is present.
  - Two draft hoods are present.
  - The vent pipe is defective or missing.
- There is evidence of improper combustion and/or venting as characterized by:<sup>6</sup>
  - Large accumulation of soot near the draft hood or on the floor underneath.
  - Scorching at the draft hood or combustion chamber.
- There is no appliance line (gas shut-off) valve present.
- The combustion air supply is improper or inadequate according to installation standards<sup>7</sup> as characterized by:<sup>6</sup>

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<sup>6</sup> When these conditions exist, installers must contact the designated utility personnel.

<sup>7</sup> An appendix to the Weatherization Installation Standards Manual establishes guidelines for increasing the vent air, i.e. changing 1/8” mesh to 1/4” mesh, how to enlarge the vents, etc.

- The absence of both low vents and high vents.
  - Vent size is too small.
  - Room volume is inadequate.
  - The customer refuses modifications needed to create adequate combustion air supply.
- Both burner access doors are missing. <sup>6</sup>
  - Internal insulation is R-12 or greater.

A water heater blanket shall not be installed on an electric water heater if:

- Hazardous electrical wiring/conditions are present.
- The thermostat cover plate(s) not present.
- Internal insulation is R-16 or greater.

**Other Policies and Procedures.** Only water heaters supplying hot water to residential units receiving weatherization are eligible to receive water heater blankets.

### **7.3.6. Water Heater Pipe Insulation**

**Nonfeasibility Criteria.** Water heater pipe insulation shall not be installed if:

- The existing pipe insulation is properly installed to installation standards.
- The water heater pipes are leaky.
- The water heater pipes are exposed to the elements (especially sunlight which can quickly degrade the insulation).
- Less than 1 foot of continuous insulation can be installed.
- Plastic piping (e.g., CPVC) is utilized for the cold or hot water lines to/from the tank.
- Pipes are inaccessible or the configuration prevents proper installation.
- The customer refuses installation of water heater pipe insulation.

**Other Policies and Procedures.** There are no other policies relating to pipe insulation.

### **7.3.7. Cover Plate Gaskets**

**Nonfeasibility Criteria.** Cover plate gaskets shall not be installed if:

- There is evidence of electrical malfunction or hazard, such as:
  - Electrical box not permanently attached.
  - Loose electrical connection.

- Signs of burning or charring or other evidence of hazardous wiring condition.
- Gaskets are properly installed to installation standards.
- The cover plate is located on a wall between two conditioned or two unconditioned areas.
- The cover plate is located behind furniture or major appliances that are too fragile or heavy to move.
- Removal of the cover plate will damage the wall surface (paint, wall paper, etc.).
- The utility box is an odd size and standard gaskets will not work.
- The customer refuses installation of cover plate gaskets.

**Other Policies and Procedures.** The following miscellaneous policies apply to cover plate gaskets:

- All broken, cracked, or missing cover plates shall be replaced.
- All gaskets must be contractor-installed. No gaskets are to be left behind for customer installation.

### **7.3.8. Energy-Saver Showerheads**

**Nonfeasibility Criteria.** Energy-saver (i.e. low-flow) showerheads shall not be installed if:

- The shower arm and ball joint are not made from the same material.
- The existing showerhead(s):
  - Have a flow rate less than or equal to 3.0 gpm and are properly installed.
  - Are required for medical reasons.
- The existing shower arm:
  - Is made of plastic.
  - Is cracked, broken, or missing.
  - Requires removal.
- The shower is not mechanically functional.
- Standard metal adapters (i.e. American Standard®, Gerber®, and Price Pfister®) will not work.
- Piping is in such poor condition that showerhead installation could cause plumbing problems.
- The customer refuses installation of low flow showerheads.

**Other Policies and Procedures.** The following miscellaneous policies apply to energy-saver (low flow) showerheads:

- All existing showerheads with a flow rate greater than 3 gpm flow can be replaced with low-flow showerheads, but the addition of showerheads where none is currently present is prohibited.
- Replaced showerheads must be left with the customer or the property manager if requested.

### **7.3.9. Faucet Aerators<sup>8</sup>**

**Nonfeasibility Criteria.** Faucet aerators may not be installed if:

- Aerators are properly installed.
- The faucet has a special fitting for attaching an appliance (e.g., portable dishwasher).
- The faucet does not provide hot water.
- The faucet or faucet threads are found to be damaged and/or leaky.
- Standard aerators will not fit.
- The customer refuses installation of faucet aerators.

**Other Policies and Procedures.** There are no other policies with respect to faucet aerators.

### **7.3.10. Evaporative Cooler and Air Conditioner Vent Covers**

**Nonfeasibility Criteria.** Evaporative cooler and air conditioner covers shall not be installed if:

- Existing evaporative cooler/air conditioner vent covers are present and functional.
- The vent/duct serving the evaporative cooler/air conditioner is shared with the heating system.
- Vent covers cannot be installed on ALL evaporative cooler/air conditioner vents.
- Water damage to the ceiling or wall area around the register is evident.
- The vent opening is so close to the wall or ceiling that proper installation of the cover is impossible.
- An external cover is present.
- The customer refuses installation of evaporative cooler/air conditioner vent covers.

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<sup>8</sup> Faucet aerators are integrated into the energy-shaver showerheads section of the WIS manual.

**Other Policies and Procedures.** The following miscellaneous policies apply to evaporative cooler and air conditioner covers:

- A shop-built wooden vent cover can be used only when a commercially-manufactured cover is not available.
- Each cover must be checked for proper fit. Removal and reinstallation must be demonstrated to the customer.
- In the cooling season when the cooler is in use, Contractor can leave the cooler cover uninstalled after the initial installation and customer instruction.

### **7.3.11. HVAC Unit Air Filter Replacement**

**Nonfeasibility Criteria.** HVAC unit air filters shall not be replaced if:

- A serviceable, reusable filter is installed.
- The HVAC appliance they serve is not operable.
- The appliance is not intended to have a filter, such as a wall furnace with a circulating fan.
- The types of filters provided by the program are specifically prohibited by the appliance manufacturer.
- Filter replacement would require removal of a flue, duct, or pipe.
- The proper filter support or retaining device is not present and installation is not feasible.
- The customer refuses filter replacement.

**Other Policies and Procedures.** Contractors designated by the utility to replace filters must show customers how to remove, clean and re-install the filters.

### **7.3.12. Exterior Door Replacements**

**Nonfeasibility Criteria.** An exterior door shall not be replaced if:

- The door can be repaired rather than replaced.
- The door is structurally sound and provides an adequate barrier to infiltration.
- The customer refuses door replacement.

**Other Policies and Procedures.** There are no other policies relating to door replacement.

### **7.3.13. Window Replacements**

**Nonfeasibility Criteria.** An exterior window shall not be replaced if:

- The window can be repaired rather than replaced.
- The window is structurally sound and provides an adequate barrier to infiltration.
- The window is located above the first floor of a structure and installation will present unsafe working conditions.
- The customer refuses door/window replacement.

**Other Policies and Procedures.** All window replacements require written pre-approval from the LIEE Program Manager.

### **7.3.14. Glass Replacement**

**Nonfeasibility Criteria.** Window glass shall not be replaced if:

- There is a small hole, ¼” or less, is present and can be patched with clear silicone or clear glass repair tape.
- There is only one crack less than 6” long, extending from edge to edge, that can not come loose from the frame to pose a safety hazard.
- The complete window will be replaced.
- The customer refuses glass replacement.

**Other Policies and Procedures.** The following miscellaneous policies apply to glass replacement:

- When only one pane in a dual pane window is cracked, the unit does not require repair/replacement. If one pane of a dual-pane window is broken, all shards must be removed.
- Polycarbonate glazing is allowed only with written pre-approval from the LIEE Program Manager.

### **7.3.15. Thread-Based Compact Fluorescent Lamps (CFLs)**

**Nonfeasibility Criteria.** A thread-based CFL shall not be installed...

- In a socket/fixture that is nonfunctional.
- If hazardous conditions exist at the socket/fixture.
- In a circuit that is controlled by a solid-state timer.
- In a circuit that is controlled by a dimmer that is not compatible with available CFLs.

- In a fixture located in a storage room, closet, or multifamily common area.
- In any fixture that is not operable by the customer (i.e. on their electric meter/bill).
- If the customer refuses installation of CFLs.

**Other Policies and Procedures.** A maximum of five CFLs may be installed at any home.

### **7.3.16. Hard-Wired Compact Fluorescent Lamp Porch Light Fixtures**

**Nonfeasibility Criteria.** A hard-wired CFL porch light fixture shall not be installed:

- If the existing location of the fixture is not suitable.
- If a thread-base CFL will fit in the existing fixture.
- In an electrical box that is substandard and/or can not be properly secured.
- Where wiring is substandard, in a deteriorated condition, and/or rewiring is necessary.
- In a circuit that does not operate properly (e.g., defective switch).
- In a circuit that is controlled by a solid-state timer.
- In a circuit that is controlled by a dimmer that is not compatible with available CFLs.
- In a wet location if a grounding conductor is not available.
- If the existing fixture is not on the customer's electric meter/bill.
- If the customer refuses installation of CFL fixture(s).

**Other Policies and Procedures.** There are two other policies relating to CFL porch light fixtures:

- No more than an average of three fixtures may be installed.
- Replaced porch light fixtures must be left with the customer or the property manager if requested.

### **7.3.17. Evaporative Cooler Installation**

**Nonfeasibility Criteria for Wall/Window Evaporative Coolers.** A wall/window evaporative cooler shall not be installed if:

- The customer has a properly installed and operational evaporative cooler.
- None of the windows are wide enough to accept an evaporative cooler.
- Exterior clearance requirements cannot be met.

- Egress requirements cannot be met.
- Wood windows are decayed or deteriorated.
- Siding is decayed or damaged .
- Substandard wiring exists (e.g., ungrounded outlets or decayed insulation and/or exposed wires).
- The customer refuses installation of the evaporative cooler.

**Nonfeasibility Criteria for Portable Evaporative Coolers.** A portable evaporative cooler shall not be installed if:

- The customer has a properly installed and operational evaporative cooler.
- Proper electrical service is not present.
- Adequate intake and exhaust openings are not present.
- Substandard wiring exists (e.g., non-polarized outlets or decayed insulation and/or exposed wires).
- The customer refuses installation of the evaporative cooler.

**Other Policies and Procedures.** There are two other policies for this measure:

- Customer must have an operational refrigerated air conditioning unit.
- Evaporative coolers are available only for certain CEC climate zones.

### **7.3.18. Furnace Repair and Replacement**

**Nonfeasibility Criteria for (Central/Ducted) Furnaces in Conventional Homes.**

A central furnace in a conventional home shall not be repaired or replaced if:

- The customer has a properly functioning central furnace.
- For roof-mounted units, the roof is not structurally adequate to support the installation.
- For units in a confined location, adequate access and/or combustion air cannot be provided.
- Disconnected or damaged space heating ducts are present and can not be repaired.
- The customer refuses furnace repair or replacement.

**Nonfeasibility Criteria for (Central/Ducted) Furnaces in Mobile Homes.** A central furnace in a mobile home shall not be repaired or replaced if:

- The customer has a properly functioning central furnace.

- Required furnace drawing combustion air from outdoors and/or flue system, or furnace components that are listed and labeled for manufactured home installation cannot be obtained.
- For units in a confined location, adequate access and/or combustion air cannot be provided.
- Depressurization by the forced air unit's non-ducted return system adversely affects an open combustion appliance, and correction is not feasible.
- Disconnected or damaged space heating ducts are present and can not be repaired.
- Abandonment of leaky belly-cavity return is required but not feasible.
- The customer refuses furnace repair or replacement.

**Nonfeasibility Criteria for Wall/Floor (Non-Ducted) Furnaces.** A wall or floor furnace shall not be repaired or replaced if:

- The customer has a properly functioning wall or floor furnace.
- The location is confined, and adequate access and/or combustion air cannot be provided.
- The existing heater is an unvented unit.
- Existing open combustion appliance is in a location prohibited by the replacement unit instructions, and relocation to an approved location is not feasible.
- The customer refuses furnace repair or replacement.

**Nonfeasibility Criteria for Installation or Repairs Requiring Crawl Space Access.** In the event that crawl space access is required for the installation or repair of wall/floor furnaces, the installation or repair of a furnace will be considered nonfeasible if:

- Crawl space clearance is less than 18" from the ground to the bottom of the floor joist system.
- Any of the following conditions is present in the crawl space area where access is required: hazardous insect infestation; excessive ground moisture (standing water or mud); or sewage waste on ground or other unsanitary conditions posing a health and safety hazard.

**Other Policies and Procedures.** There are three other policies and procedures for furnace repairs and replacements:

- Furnace replacements and major furnace repairs may be provided only if the residence is owner-occupied. Adjustments and minor repairs may also be conducted in non-owner-occupied homes.

- Furnace repairs and replacements will be provided only if the fuel used by the furnace is supplied by the utility providing the weatherization service.
- Furnace replacement will not include hazardous material abatement, major structural alteration, concrete work, painting, or floor covering.

### **7.3.19. Refrigerator Replacement**

**Nonfeasibility Criteria.** Refrigerators shall not be replaced if:

- The customer has an EnergyStar® refrigerator.
- The electrical outlet used by the existing refrigerator is not properly grounded and cannot be properly grounded using an adapter allowed by code and the manufacturer's specifications.
- Floor is not level and cannot safely support a new refrigerator.
- Other hazardous electrical conditions exist at the outlet used by the existing refrigerator.
- The customer refuses refrigerator replacement.

**Other Policies and Procedures.** Other policies and procedures that apply to refrigerator replacement include:

- Refrigerators may not be replaced unless the existing refrigerator is more than 10 years old.
- Only primary refrigerators are eligible for replacement through the Program. The primary refrigerator is the main refrigerator in the home, usually the kitchen refrigerator.
- The size of the replacement refrigerator offered to the customer will be comparable in size to the existing unit. Exceptions will be made to this rule in the event that the customer has and is willing to exchange two (any size) refrigerators or freezers for a single larger unit.
- Space must be physically large enough to accommodate the new refrigerator, with entrance and passageways sufficient to allow removal of the existing refrigerator.
- Contractor shall dispose and recycle (de-manufacture) replaced refrigerators in an environmentally safe manner and in accordance with federal, state, and local regulations and codes.

# 8

## Inspection Policies

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### 8.1 Introduction

This section summarizes the inspection policies used in the LIEE Program to ensure safety and quality control in the installation of measures and minor home repairs. Subsection 8.2 discusses the designation of the responsibilities for inspections. Subsection 8.3 describes policies relating to pre-installation inspections. Subsection 8.4 presents policies on post-installation inspections.

### 8.2 Inspection Personnel

Utilities will use either in-house personnel, contract employees, or contractors to conduct inspections. However, each utility will undertake in-house either the prime contractor (administration) function or the inspection function, but not both, with the very limited exceptions discussed in D. 00-07-020.

### 8.3 Pre-Installation Inspection

The four investor-owned utilities have different pre-installation inspection policies, as follows:

- PG&E has the installation contractor's Energy Specialist (ES) perform a measure evaluation at the time of the energy education. While still on the customer's premises, the ES will call the Central Inspection Program (CIP) toll free number and report the weatherization measures and quantities feasible, report the type and operating status of all combustion appliances present, and co-ordinate the pre-inspection appointment with the customer and PG&E. CIP will print an Inspection Work Order (IWO) with the ES's measures, quantities, and comments about the home for use by the inspector. At the time of the PG&E visit, the inspector will confirm that the measures identified by the Energy Specialist are feasible, the quantities are accurate, and no feasible measures were overlooked. In addition, the inspector will fill out a refrigerator application and check the refrigerator outlet for proper wiring. The inspector will perform a CAS inspection and based on the results will identify which of the feasible measures can be installed. After the IWO is data entered, an electronic file will be sent to the contractor identifying which of the ES's measures and quantities were approved, any additional measures required, CAS inspection results, and inspector comments about the home. If

PG&E is unable to complete a CAS test, the home will be reported to the contractor as eligible for non-infiltration measures only, until a CAS test is completed. When the ES, the pre inspector, and the installation crew all miss a feasible measure, the post inspector will make that measure a correction fail rather than a standard fail. (Correction fails that are repaired within 10 days are changed to first inspection passes.)<sup>1</sup>

- SDG&E has its program management prime contractor do an initial assessment of the need for measures, prior to assigning a home for installation by the installation subcontractor. The subcontractor then does a more detailed audit and reconciles any discrepancies in its audit findings with the prime program management contractor. SDG&E also has its inspectors conduct a “job start” inspection prior to measure installations in multifamily complexes.
- In the SoCalGas weatherization program, the installation contractor (or a subcontractor) does the initial measure assessment. SoCalGas does not have a pre-inspection process conducted separate from outreach and assessment. Every service provider under the program contracts with or hires personnel to income qualify customers for the program. Outreach and assessment personnel are required to attend extensive training, which provides them with the tools for qualifying customers and assessing the measures that are feasible to install under program guidelines. The certified outreach and assessment personnel recruit customers for the service providers by which they are employed. They are responsible to qualify the customer and the dwelling and make an assessment (pre-inspection) of the home for feasible measures to be installed. In addition, they provide the customer with energy education. The customer is advised of the measures identified for installation but are told that the installation contractor will make final determination for feasibility of installation.
- In the SCE program, the installation contractor assesses the need for measures, and no pre-approval is needed from any other entity.

## **8.4 Post-Installation Inspection**

### **8.4.1 General Policies on Post-Installation Inspection**

Post-installation inspections are used to assure that Contractors install measures in accordance with the Installation Standards of the LIEE Program. In this subsection, specific policies relating to post-installation inspections are presented. These policies encompass the types of pass rates used in program administration, the frequency of post-installation inspections, the treatment of hazardous fails, resolution of disputes relating to inspections, charges for reinspection, inspection waivers, and minor job corrections.

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<sup>1</sup> PG&E’s year 2001 program is allowing the ES to install five Compact Fluorescent Lights (CFL) at the time of the Energy Education because contractors have reported increased success in enlisting participants when they were able to offer CFL’s at the time of the energy education.

**8.4.2 Types of Pass Rates**

Utilities or their designees will collect information on both per-home and per-measure pass rates in 2002. Per-home pass rates will be used for the purposes of determining payments and determining minimum sample sizes for tracking performance. Per-measure pass rates will be used to tailor training and technical assistance for contractors, as well as to manage programs in a prudent manner.

**8.4.3 Post-Installation Inspection Frequency**

Utilities or their inspection contractors will inspect all ceiling insulation and furnace repair/replacement jobs. For all other jobs not involving ceiling insulation or furnace repair/replacement, random inspections will be conducted for a sample of dwelling units. Minimum sample sizes will be determined for each contractor, and will depend upon the contractor’s past pass rates and the total number of units allocated to the contractor. Minimum sample sizes are shown in Table 8-1. Note that these sample sizes are designed to provide 90% confidence that the true pass rate is within 5% of the estimated value.

**Table 8-1: Minimum Sample Sizes for Inspections (90% / ±5% precision)**

Pass Rate	Number of Homes Allocated to Contractor					
	200	500	1000	2000	5000	10000
<b>0.70</b>	140	241	317	377	425	444
<b>0.75</b>	129	210	265	306	337	348
<b>0.80</b>	115	176	213	239	257	264
<b>0.85</b>	98	139	161	175	184	188
<b>0.90</b>	76	97	108	114	118	119
<b>0.95</b>	45	51	54	56	57	57

Utilities or their inspection contractors may exceed these minimum sample sizes if, in the judgment of the administrator, larger sample sizes are necessary to preserve program quality control. Circumstances that may justify larger sample sizes include, but are not limited to, the following:

1. If the utility’s program is small enough that 100 % post inspections can be conducted without substantially increasing overall program expenditures.
2. If a particular contractor exhibits a pattern of inspection failures that justifies inspection of a higher percentage of jobs.

3. If a contractor is on a quality improvement plan which requires them to improve their inspection pass rates.
4. If contractor crews are newly trained or new to the program, and require closer field supervision and on the job training.
5. If a contractor's installation crews are not sure of the program inspection standards, as exhibited in failed inspection results.
6. If a contractor's allocation of homes covers multiple counties.
7. If post-inspections are done in conjunction with post-installation natural gas appliance tests.<sup>2</sup>
8. If sample inspection results are also used to estimate measure pass rates for the population of homes treated by a contractor.

Utilities will keep records of actual inspection frequencies by contractor.

#### **8.4.4 Hazardous Fails**

Contractors are required to correct hazardous fails within 24 hours of notification by the utility and/or its inspector. Note: Treatment of fails relating to natural gas appliance testing will be considered later after natural gas appliance testing policies have been further considered.

#### **8.4.5 Failed Inspection Dispute Resolution**

Dispute resolution procedures differ across utilities because of differences in outsourcing practices.

#### **8.4.6 Failure to Install Feasible Measures**

In the event that a contractor fails to correctly install a feasible measure, it will be accorded the following treatment:

- If the measure is installed, but installed incorrectly, the job will be given a fail.
- If the measure is not installed at all, but is included in the invoice for the dwelling, the job will be given a fail.
- If the measure is not installed at all, but is not included on the invoice and not on a pre-approval list, the job will be issued a correction. In the event that this correction is not made within 10 calendar days, the correction will revert to a job fail.

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<sup>2</sup> The rationale here is that there are economies associated with conducting post-installation inspections and post-installation natural gas appliance testing.

- If the measure is included on a pre-approval list but not installed, the job will receive a fail.

#### **8.4.7 Charge for Reinspection**

The utility will levy a charge in the event that a job fail or a job correction is issued and the contractor contests this action. If the failure or correction is upheld, the utility will charge the contractor for the reinspection of the job by the utility arbitrator. If the utility uses an inspection contractor and the job fail or correction is reversed, the utility will charge the inspection contractor for the reinspection of the job by the utility arbitrator.

#### **8.4.8 Inspection Waivers**

Policies on inspection waivers vary between mandatory and non-mandatory inspections, as follows:

- **Mandatory inspections** are those required for projects in which ceiling insulation is installed. An attempt will be made to inspect all such projects prior to making final approval of payment to the weatherization contractor. For mandatory inspections, three attempts will be made to arrange for a post-installation inspection within 30 calendar days of the notification of job completion. After three such attempts, the inspection provider will send a certified letter to the participant asking for permission to inspect the home. If the participant does not respond to this certified letter within two weeks, the inspection provider need not conduct the inspection prior to making final approval of payment for the weatherization job.<sup>3</sup>
- **Non-mandatory inspections** relate to projects not involving ceiling insulation. They are non-mandatory in the sense that only a sample of projects must be inspected. A non-mandatory inspection of a sampled project may be waived by the utility after three attempts to contact the participant, provided that the inspection provider replaces this project with another and completes a sufficient number of inspections as provided in the policy on post inspection frequency (see above).

#### **8.4.9 Post Installation Job Correction Policies**

Inspectors will be permitted to make minor corrections at the site. Minor job corrections will be limited to corrections that satisfy the following conditions:

- The error is the only error found at the site;
- Are not associated with errors that create hazardous conditions;

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<sup>3</sup> Even though SoCalGas pays the contractor prior to inspection, an adjustment to the payment may be made if an inspection reveals problems. Our interpretation is that the final approval of the SoCalGas payment is thus not made until after an inspection, presuming that an inspection can be made.

- Can be made with tools typically carried by inspectors (e.g., screwdrivers, putty knives, etc.);
- Can be made with materials normally carried by inspectors (e.g., screws, glazing compound, etc.);
- Can be carried out within a few minutes by inspectors; and
- Can be accomplished at a minimum of inconvenience to inspectors.

In the event that a minor correction is made, it will be recorded by the inspector. Each time a minor job correction is made, the contractor will be notified. Minor corrections will become part of the contractor's record. Inspector reports will be entered into a database, and reports on contractor performance will be monitored.

A maximum number of such post-installation minor corrections will be determined for each contractor and each measure. This maximum will be either three corrections, or 0.5% of the total number of a contractor's allocation of participants expected to be inspected, whichever is greater.

Inspection providers will develop monthly reports on minor job corrections by contractor and measure. In the event that inspections are conducted by a third party contractor, this contractor will submit these reports to the utility on a regular basis, as specified in the contract between the utility and the third party inspector. As soon as a report indicates that a contractor has exceeded the maximum allowable number of job corrections for a specific measure during the program year, that contractor will be informed by the utility that no further minor job corrections will be made by inspectors on installations of the measure in question during the program year. Inspectors will also be informed that they should no longer perform minor job corrections on the measure in question for that particular contractor for the measure in question for the remainder of the year.

Minor corrections associated with a specific weatherization measure in a specific program year will not be counted as inspection failures for the contractor until the contractor is notified that the maximum number of allowable minor job corrections has been exceeded. Subsequent problems associated with the installation of the measure will be counted as fails in inspection records, and the contractor will be required to revisit the site to make corrections.

In the event that a Contractor's overall performance falls short of Program standards, a corrective action plan may be instituted. Such a corrective action plan may be required if the Contractor fails to do one or more of the following:

- Meet production standards
- Complete work on time

- Achieve and maintain a overall pass rate of 90% of all homes
- Correct hazardous fails within 24 hours
- Correct non-hazardous job fails within 30 calendar days
- Provide field supervision
- Submit accurate and legible invoices or other job related paperwork

In the event that a corrective action plan is instituted for a Contractor, minor job corrections will no longer be performed for that Contractor during the remainder of the Program Year.

# 9

## Contractor Eligibility

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### 9.1 Introduction

This section outlines contractor eligibility conditions under the LIEE Program. Subsection 9.2 deals with insurance requirements. Subsection 9.3 relates to licensing requirements. The purpose of this section is to provide general information on these requirements. It may not include all of the requirements specified in the contracts between contractors and Program Administrators.

### 9.2 Insurance Requirements

Contractors shall maintain insurance in full force and effect during the life of the contract with DAP, with responsible insurance carriers authorized to do business in California and having a Best Insurance Guide (or equivalent) rating of not less than A:VII. All policies shall be endorsed to require at least 30 days notice to the utility of any change or cancellation. Original certificates of insurance shall be provided to the Program Administrator prior to the commencement of any work for this program.

The following insurance shall be provided:

- Workers' Compensation and Employer's Liability Insurance;
- Comprehensive General Liability Insurance; and
- Comprehensive Automobile Liability Insurance.

Required amounts of coverage will be provided by the utility. The Program Administrator shall be named as an additional insured in each policy except for Workers' Compensation. Contractors are also required to ensure that all subcontractors, if approved, maintain the same levels and types of insurance and are not employed in LIEE if insurance has lapsed.

Workers' Compensation Insurance is required to maintain a contractor's license in good standing with the CSLB. The CSLB will suspend the contractor's license of any contractor whose insurance lapses or is canceled. It is the responsibility of each LIEE contractor to provide documentation that all required insurance is in effect. This includes but is not

limited to providing LIEE staff with new Certificates of Insurance, as necessary, at the renewal date of insurance.

When records indicate a lapse of insurance coverage, contractors will be immediately suspended from working in LIEE.

### **9.3 Licensing Requirements**

Any organization or company contracting with a Program Administrator under the LIEE Program must comply with all applicable federal, state and local laws and regulations, as well as with utility guidelines. Such organizations must also comply with any applicable CSLB licensing requirements and remain in good standing with the CSLB.

# 10

## Natural Gas Appliance Testing

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### 10.1 Introduction

Natural gas appliance testing is conducted whenever natural gas appliances are present in the dwelling and natural gas is served by the utility providing the LIEE Program to the household. Testing procedures are implemented either prior to the installation of measures (pre-installation testing), after the installation of measures (post-installation testing), or both before and after installation, at the utility's option. While the utilities have different specific procedures for conducting natural gas appliance testing, all utilities subscribe to a minimum standard. This minimum standard is described in Subsection 10.2.

### 10.2 Minimum Standard

The minimum testing standard to which the utilities subscribe consists of a number of steps designed to ascertain the presence of gas leaks or carbon monoxide concentrations. As shown in Table 10-1, there are five steps in the minimum standard. Olfactory tests provide a means of testing for natural gas leaks. Visual examination of flue and vent systems identify a wide range of conditions associated with venting gas appliances. Visual examinations of appliance components focus on defective/missing appliance components. Checking combustion air vents identifies defective/obstructed flue/vent systems. Ambient CO tests provide a means of checking indirectly for a variety of operational problems. Finally, visual and tactile draft tests evaluate the adequacy of drafting.

**Table 10-1: Recommended Minimum Standard for Gas Appliance Testing**

General Procedure	Specific Procedures
<b>Olfactory Test</b>	Smell for natural gas leaks.
<b>Visual Examinations</b>	<ul style="list-style-type: none"> <li>■ Flue and Vent System—Check for:</li> <li>■ Draft hood defects: Multiple, missing or improperly installed</li> <li>■ Holes in pipe or other hazardous conditions.</li> <li>■ Connection with a solid fuel appliance chimney.</li> <li>■ Flue/vent cap missing or damaged.</li> <li>■ Inadequate distance from an evaporative cooler inlet.</li> </ul>
	<ul style="list-style-type: none"> <li>■ Appliance Components—Check for:</li> <li>■ Furnace combustion chamber door(s) <u>not</u> present.</li> <li>■ Water Heater combustion chamber cover (rollout shield or access door) <u>not</u> present.</li> <li>■ Excessive amounts of carbon or rust in/around heat exchanger, draft hood or flue/vent pipe.</li> </ul>
<b>Combustion Air Evaluation</b>	<ul style="list-style-type: none"> <li>■ Combustion Air Vents—Check for:</li> <li>■ Vents are present and adequate (size and location)</li> <li>■ Source of combustion air is adequate and unobstructed.</li> </ul>
<b>Indoor Ambient CO Tests</b>	<ul style="list-style-type: none"> <li>■ CO tester zeroed outdoors.</li> <li>■ [A] Equipment-<i>Off</i> Indoor Ambient CO sample: Taken in an open location away from duct registers and appliances. All combustion appliances are turned off.</li> <li>■ [B] Equipment-<i>On</i> Indoor Ambient CO sample: Taken after all space-heating systems have been operating at least five minutes. Measured in the same location as [A].</li> <li>■ [C] Equipment-<i>On</i> Appliance Ambient CO sample: <i>Forced-air units</i>: inside the register nearest the supply plenum. <i>Non-ducted units</i>: in the atmosphere just above the heat exchanger.</li> <li>■ Investigative action, and correction if needed, is required when: <ul style="list-style-type: none"> <li>[A] or [B] CO level exceeds 10 ppm.</li> <li>[C] CO level exceeds [B] CO level.</li> </ul> </li> <li>■ Gas heating system(s) shall be repaired/replaced when required.</li> </ul>
<b>Draft Tests</b>	<ul style="list-style-type: none"> <li>■ Visual (non-instrument) test</li> <li>■ Tactile test</li> </ul>

Detailed procedures for natural gas appliance testing may be obtained from the individual utilities.

# ***Appendix A***

## **Customer Bill of Rights**

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## **Customer Bill of Rights for California Alternate Rates for Energy (CARE) and Low Income Energy Efficiency (LIEE) Services (revised 2/9/01)**

Low income customers should be treated respectfully and professionally when obtaining information about, applying for, and receiving LIEE (weatherization) and CARE (energy bill discount) services. Toward that end, low income customers have the basic rights enumerated below.

### ***Rights to Program Participation***

Eligible low-income customers may choose to participate in CARE without participating in LIEE, or to participate in LIEE without taking advantage of CARE. Customers participating in the LIEE and/or CARE Programs also have the right to participate in any other customer service, energy conservation or bill payment assistance programs provided by their utility and/or an outside party, provided that they are eligible for the program(s) in question and adequate funds are available in the program budget(s).

### ***Rights within the LIEE Program***

Participants in the LIEE Program have the following basic rights:

- ***Information.*** Participants have the right to be informed by utility representatives (utility staff and/or contractors) of all services the utilities provide under the LIEE Program for which they may be eligible prior to their participation.
- ***Disclosure.*** Participants have the right to be informed by the contractor, prior to the commencement of work, about the work that will be performed on their home. With the understanding that work schedules cannot always be determined in advance, participants also have the right to receive the contractor's best estimates of the amount of time this work will take, and the number of home visits that may be required to complete the work and conduct the required inspections.
- ***Choice.*** Participants have the right to receive all feasible measures and services for which they are eligible under the LIEE Program, provided that there is adequate funding available. Participants also have the option to refuse individual measures and services.
- ***Privacy.*** Participants have a legitimate expectation that their records and personal information will not be used by contractors or the utilities for purposes other than facilitating LIEE participation, except as directed by the California Public Utilities Commission (CPUC) or the California legislature.
- ***Safety.*** Participants have the right to expect that utility representatives (utility staff and/or contractors) will take all reasonable precautions to avoid property damage and the creation of unsafe conditions in the home.

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- **Questions or Complaints.** LIEE Participants have the right to timely responses to their questions and/or complaints through the procedure attached to this Bill of Rights.
  - **Public Participation.** Participants have the right to participate in public policy proceedings conducted by the CPUC.

### ***Rights within the CARE program***

Customers choosing to participate in the CARE program have the following rights:

- **Information.** Low income customers have the right to notification about the availability and qualifications of the CARE program.
- **Timely Processing.** Applicants for CARE have the right to prompt processing of their application, with the discount usually provided in the next complete billing cycle after their completed application is received and approved.
- **Correcting Errors or Omissions.** CARE Applicants have the right to notification if their application is incomplete, and to be given an opportunity to provide the necessary information for program enrollment.
- **Privacy.** Participants have the right to personal privacy and protection from non-CARE use of their records and personal information, except as directed by the California Public Utilities Commission (CPUC) or the California legislature.
- **Notification of Ineligibility.** If the utility determines that an applicant is not eligible for the CARE discount, that applicant has the right to timely notification and explanation of the reason he or she does not qualify for the program.
- **Questions or Complaints.** CARE Participants have the right to timely responses to their questions and/or complaints through the procedure attached to this Bill of Rights.
- **Public Participation.** Participants have the right to participate in public policy proceedings conducted by the CPUC.

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## Procedure for Registering Complaints and Inquiries

Customers can file questions and/or complaints about the services provided under those programs using the following procedure:

- A customer who has questions or complaints about LIEE services should first contact the contractor who provided these services. The contractor will provide contact information for both the utility and the contractor when the services are delivered. The contractor should work with the customer to answer questions and/or to resolve problems within 10 days.
- If the customer's question or complaint is about LIEE services and the customer cannot resolve it with the LIEE contractor in a timely way, or if an inquiry or complaint is about the CARE program, the customer should contact the local utility company. This can be done by letter, by telephone, or in person. The telephone number and address of the utility company will be on the customer's bill and in the telephone directory. An 800 number will also be provided on the program application.
- The utility's representative will answer the customer's question(s) and/or resolve the issue(s) or refer these matters to a Program representative. Every attempt will be made to resolve the problem or question to the customer's satisfaction.
- If the utility does not satisfactorily resolve the customer's problem or answer the customer's question, the customer may contact the California Public Utilities Commission (CPUC), the agency that regulates the utility. The customer can send any question or complaint to the CPUC's Consumer Services Division by mail, FAX, phone or e-mail, as follows:
  - *To file the question or complaint by mail*, the customer should specify his/her name, mailing address, phone number, name of the utility, name of the utility representative with whom the customer last talked, the customer's utility account number, and a brief description of the question or complaint. If the customer's complaint relates to billing or LIEE services, the customer should send this information to the CPUC Consumer Affairs Branch, 505 Van Ness Ave., San Francisco, CA 94102. If it relates to a safety issue, the customer should send it to the California Public Utilities Commission, Utilities Safety Branch, 505 Van Ness Ave., San Francisco, CA 94102.
  - *To FAX a question or complaint*, the customer should send the information discussed above to one of the following FAX numbers: (415) 703-1158 or (415) 703-1910.
  - *To phone in questions or complaints* about energy bills or about the LIEE program, the customer should call 1-(800) 649-7570 or (415) 703-1170. To phone in questions or complaints about electric or gas safety matters, the customer should call 1-(800) 755-1447.

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- *To e-mail a question or complaint*, the customer should use one of the following e-mail addresses. If the question or complaint is a billing issue or an issue related to services received in the LIEE Program, the customer should e-mail it to *consumer-affairs@cpuc.ca.gov*. If it relates to a safety issue, the customer should e-mail it to *alok.kumar@cpuc.ca.gov*.

# ***Appendix B***

## **List of Rapid Deployment Measures**

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As mandated by the Commission's Decision 01-05-033, the following measures are offered on a temporary basis as part of the policy of Rapid Deployment:

- high efficiency window/wall air conditioners;
- high efficiency central air conditioners;
- high efficiency gas water heaters;
- high efficiency electric water heaters;
- programmable and setback thermostats;
- duct repair and sealing;
- whole-house fans; and
- evaporative cooler maintenance.

Policies and procedures relating to these measures are included in Appendix E. Installation standards are provided in the Installation Standards manual.

# Appendix C

## City-to-Weather Zone Assignments for Determining Ceiling Insulation Levels

Zone	Location:City, County	Zone	Location:City, County
<b>A</b>			
North Coast	Abbotts Lagoon, Marin	Mountain	Alta Sierra, Kern
Inland	Academy, Fresno	South Coast	Altadena, Los Angeles
Inland	Acampo, San Joaquin	Inland	Altamont, Alameda
Desert	Acolita, Imperial	Inland	Altaville, Calaveras
Desert	Actis, Kern	South Coast	Alton, Humboldt
Desert	Acton, Los Angeles	Mountain	Alturas, Modoc
North Coast	Adelaida, San Luis Obispo	North Coast	Alviso, Santa Clara
Desert	Adelanto, San Bernardino	Inland	Amador, Amador
South Coast	Adin, Modoc	Inland/Mountain	Amador County
Inland	Adobe, Kern	Desert	Amargosa Range, Inyo
Desert	Afton, San Bernardino	Desert	Amargosa River, Inyo
South Coast	Ager, Siskiyou	Desert	Amboy, San Bernardino
South Coast	Agoura Hills, Los Angeles	Mountain	Ambrose, Modoc
North Coast	Agua Caliente Canyon, Santa Barbara	North Coast	American Canyon, Napa
Desert	Agua Caliente Springs, San Diego	Inland	American River, Sacramento
South Coast	Agua Duice, Los Angeles	Mountain	American River (Silver Fork), El Dorado
Inland	Aguanga, Riverside	Desert	Amos, Imperial
Inland	Ahwahnee, Madera	South Coast	Anacapa Island, Ventura
Desert	Airport Lake, Inyo	South Coast	Anaheim, Orange
North Coast	Almaden A.F.S., Santa Clara	North Coast	Anchor Bay, Mendocino
North Coast	Alameda, Alameda	Inland	Anderson, Shasta
Inland	Alameda County	North Coast	Anderson Lake, Santa Clara
Inland	Alamo, Contra Costa	Desert	Andrade, Imperial
Desert	Alamo River, Imperial	North Coast	Angel Island, Marin
North Coast	Albany, Alameda	Inland	Angels Camp, Calaveras
Inland	Alberhill, Riverside	Inland	Angiola, Tulare
North Coast	Albion, Mendocino	North Coast	Angwin, Napa
North Coast	Alderpoint, Humboldt	North Coast	Annapolis, Sonoma
South Coast	Alhambra, Los Angeles	Inland	Antelope, Sacramento
North Coast	Alisal, Monterey	Desert	Antelope Center, Los Angeles
North Coast	Alisal Slough, Monterey	Mountain	Antelope Lake, Plumas
Mountain	Aliso Canyon, Los Angeles	Inland	Antelope Plain, Kern
South Coast	Alleghany, Sierra	Desert	Antelope Valley, Los Angeles
Inland	Allendale, Solano	Inland	Antioch, Contra Costa
Inland	Allensworth, Tulare	Mountain	Anza, Riverside
Mountain	Almanor, Plumas	Mountain	Anpache Canyon, Ventura
South Coast	Alondra Park, Los Angeles	Desert	Apple Valley, San Bernardino
Inland	Alpaugh, Tulare	Inland	Applegate, Placer
Mountain	Alpine County	North Coast	Aptos, Santa Cruz
Inland	Alpine, San Diego	Desert	Araz Wash, Imperial
Mountain	Alta, Placer	Inland	Arbuckle, Colusa
Inland	Alta Loma, San Bernardino	South Coast	Arcadia, Los Angeles
		North Coast	Arcata, Humboldt

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
North Coast	Arcata Bay, Humboldt	Desert	Barstow, San Bernardino
Inland	Arden Town, Sacramento	Mountain	Bartle, Siskiyou
Desert	Argus, San Bernardino	Mountain	Bartlett, Inyo
Mountain	Argus Peak, Inyo	North Coast	Bartlett Springs, Lake
Mountain	Argus Range, Inyo	Mountain	Bass Lake, Madera
Inland	Arlington, Riverside	South Coast	Bassett, Los Angeles
Inland	Armona, Kings	Mountain	Baxter, Placer
Mountain	Arnold, Calaveras	Mountain	Bayley, Modoc
North Coast	Arnold, Mendocino	Inland	Bayliss, Glenn
North Coast	Aromas, Monterey	North Coast	Bayside, Humboldt
Desert	Arrowhead Junction, San Bernardino	North Coast	Baywood Park, San Luis Obispo
North Coast	Arryo Dos Picachos, San Benito	Inland	Beale Air Force Base, Yuba
North Coast	Arryo Grande, San Luis Obispo	North Coast	Bear Buttes, Humboldt
Inland	Arroyo Hondo, Fresno	Mountain	Bear River, Amador
North Coast	Arroyo Hondo, Santa Clara	North Coast	Bear River, Humboldt
Desert	Arroyo Salada, Imperial	Inland	Bear River, Sutter/Yuba
North Coast	Arroyo Seco, Monterey	Inland	Bear Valley, Mariposa
South Coast	Artesia, Los Angeles	Mountain	Beardsley Lake, Tuolumne
Inland	Artois, Glenn	Inland	Beaumont, Riverside
Inland	Arvin, Kern	Mountain	Beckwourth, Plumas
Mountain	Aspen Valley, Tuolumne	Mountain	Beckwourth Pass, Lassen/Plumas
North Coast	Asti, Sonoma	Inland	Beegum, Shasta
North Coast	Atascadero, San Luis Obispo	Mountain	Belden, Plumas
North Coast	Atherton, San Mateo	South Coast	Bell, Los Angeles
Inland	Athlone, Merced	South Coast	Bell Gardens, Los Angeles
Desert	Atolia, San Bernardino	Desert	Bell Mountain, San Bernardino
Inland	Atwater, Merced	Desert	Bell Mountain Wash, San Bernardino
Inland	Auberry, Fresno	North Coast	Bell Springs, Mendocino
Inland	Auburn, Placer	North Coast	Bell Station, Santa Clara
Inland	Auburn Ravine, Sutter	Inland	Bella Vista, Shasta
Inland	Aukum, El Dorado	South Coast	Bellflower, Los Angeles
South Coast	Avalon, Los Angeles	Inland	Bellota, San Joaquin
Desert	Avawatz Mountains, San Bernardino	North Coast	Belmont, San Mateo
Inland	Avenal, Kings	North Coast	Belvedere, Marin
North Coast	Avila Beach, San Luis Obispo	Inland	Ben Hur, Mariposa
South Coast	Azusa, Los Angeles	North Coast	Ben Lomond, Santa Cruz
<b>B</b>		North Coast	Benbow, Humboldt.
Inland	Bagby, Mariposa	Inland	Bend, Tehama
Desert	Bagdad, San Bernardino	Inland	Benicia, Solano
Inland	Badger, Tulare	Desert	Bennetts Well, Inyo
Desert	Baker, San Bernardino	Mountain	Benton, Mono
Inland	Bakersfield, Kern	Mountain	Benton Hot Springs, Mono
Desert	Balch, San Bernardino	Inland	Berenda, Madera
Mountain	Bald Eagle Mountain, Plumas	North Coast	Berkeley, Alameda
South Coast	Baldwin Park, Los Angeles	Inland	Berry Creek, Butte
Desert	Ballarat, Inyo	North Coast	Berryessa, Santa Clara
North Coast	Ballico, Merced	North Coast	Berryessa Peak, Napa/Yolo
Inland	Bangor, Butte	Mountain	Beswick, Siskiyou
Desert	Banning, Riverside	Inland	Bethany, San Joaquin
Inland	Banta, San Joaquin	Inland	Bethel Island, Contra Costa
Desert	Bard, Imperial	North Coast	Betteravia, Santa Barbara
South Coast	Bardsdale, Ventura	South Coast	Beverly Hills, Los Angeles
North Coast	Barkerville, Lake	Mountain	Bieber, Lassen
Mountain	Barkley Mountain, Tehama	Mountain	Big Bar, Trinity
Inland	Barona, San Diego	North Coast	Big Basin, Santa Cruz
Inland	Barrett Junction, San Diego	Mountain	Big Bear City, San Bernardino

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Mountain	Big Bear Lake, San Bernardino	Desert	Bombay Beach, Imperial
Mountain	Big Bend, Butte	Mountain	Bonanza King, Trinity
Mountain	Big Bend, Shasta	Desert	Bonds Corner, Imperial
North Coast	Big Bend, Sonoma	Inland	Bonita, Madera
Mountain	Big Creek, Fresno	North Coast	Bonny Doon, Santa Cruz
North Coast	Big Lagoon, Humboldt	Inland	Bonsall, San Diego
Mountain	Big Lake, Shasta	North Coast	Boonville, Mendocino
Desert	Big Maria Mountains, Riverside	Inland	Bootjack, Mariposa
North Coast	Big Mountains, Sonoma	Desert	Boron, Kern
Inland	Big Oak Flat, Tuolumne	Desert	Borrego, San Diego
Mountain	Big Pine, Inyo	Desert	Borrego Springs, San Diego
Mountain	Big Pines, Los Angeles	Inland	Bostonia, San Diego
Desert	Big Rock Wash, Los Angeles	North Coast	Boulder Creek, Santa Cruz
Mountain	Big Sage Reservoir, Modoc	Desert	Boulevard, San Diego
Mountain	Big Springs, Siskiyou	Inland	Bowles, Fresno
North Coast	Big Sur, Monterey	Inland	Bowman, Placer
North Coast	Big Sur River (North Fork), Monterey	Desert	Box Canyon, Riverside
Mountain	Big Tujungs Canyon, Los Angeles	North Coast	Boyes Hot Springs, Sonoma
Mountain	Big Valley Mountains, Lassen/Modoc	South Coast	Bradbury, Los Angeles
Inland	Biggs, Butte	North Coast	Bradley, Monterey
Mountain	Bijou, El Dorado	North Coast	Branscomb, Mendocino
Inland	Biola, Fresno	Desert	Brant, San Bernardino
Inland	Birds Landing, Solano	Desert	Brawley, Imperial
Mountain	Bishop, Inyo	Mountain	Bray, Siskiyou
Desert	Bissell, Kern	South Coast	Brea, Orange
North Coast	Bitterwater, San Benito	Mountain	Breckenridge Mountain, Kern
Mountain	Black Bear, Siskiyou	Inland	Brentwood, Contra Costa
Mountain	Black Butte, Glenn	Inland	Briceburg, Mariposa
Inland	Black Butte Reservoir, Glenn/Tehama	North Coast	Briceland, Humboldt
Mountain	Black Butte River, Mendocino	Inland	Bridge House, Sacramento
Desert	Black Canyon Wash, San Bernardino	Mountain	Bridgeport, Mono
Desert	Black Meadow Landing, San Bernardino	Mountain	Bridgeport Reservoir, Mono
Inland	Black Mountain, Fresno	North Coast	Bridgeville, Humboldt
North Coast	Black Point, Marin	Inland	Briones Reservoir, Contra Costa
Inland	Blackwells Corner, Kern	North Coast	Brisbane, San Mateo
Mountain	Blairsden, Plumas	Desert	Bristol Lake, San Bernardino
North Coast	Blocksburg, Humboldt	Desert	Bristol Mountains, San Bernardino
North Coast	Bloomfield, Sonoma	Inland	Broderick, Yolo
Inland	Bloomington, San Bernardino	North Coast	Brookdale, Santa Cruz
Inland	Blossom, Tehama	Inland	Brooks Ranch, Yolo
Mountain	Blue Canyon, Placer	Desert	Brown, Kern
North Coast	Blue Lake, Humboldt	Inland	Browns Valley, Yuba
Inland	Blunt, Tehama	Inland	Brownsville, Yuba
Desert	Blythe, Riverside	North Coast	Bruhel Point, Mendocino
Mountain	Boca, Nevada	Mountain	Brush Creek, Butte
Mountain	Boca Reservoir, Nevada	Desert	Bryman, San Bernardino
North Coast	Bodega, Sonoma	North Coast	Bryson, Monterey
North Coast	Bodega Bay, Marin	Inland	Bryte, Yolo
North Coast	Bodega Bay, Sonoma	Mountain	Buck Meadows, Mariposa
North Coast	Bodega Head, Sonoma	Inland	Buckeye, Shasta
Mountain	Bodfish, Kern	Desert	Buckhorn Lake, Kern
Mountain	Bodie, Mono	Mountain	Bucks Lake, Plumas
Mountain	Bolam, Siskiyou	Desert	Budweiser Wash, San Bernardino
North Coast	Bolinas, Marin	North Coast	Buellton, Santa Barbara
Mountain	Bollibokka Mountain, Shasta	South Coast	Buena Park, Orange
North Coast	Bolsa Knolls, Monterey	Inland	Buena Vista, Amador

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Inland	Buena Vista Lake Bed, Kern	Inland	Cameron Park, El Dorado
North Coast	Bull Creek, Humboldt	Inland	Camino, El Dorado
Desert	Bull Spring Wash, San Bernardino	Desert	Camino, San Bernardino
Desert	Bullion Mountains, San Bernardino	Mountain	Camp Angelus, San Bernardino
Mountain	Buntingville, Lassen	Inland	Camp Far West Reservoir, Yuba
South Coast	Burbank, Los Angeles	North Coast	Camp Meeker, Sonoma
North Coast	Burbeck, Mendocino	Mountain	Camp Nelson, Tulare
North Coast	Burdell, Marin	Mountain	Camp Richardson, El Dorado
North Coast	Burlingame, San Mateo	North Coast	Campbell, Santa Clara
Mountain	Burney, Shasta	Desert	Campo, San Diego
Mountain	Burney Mountain, Shasta	Inland	Campo Seco, Calaveras
Mountain	Burnt Ranch, Trinity	Mountain	Camptonville, Yuba
Inland	Burrelield, Fresno	Mountain	Canby, Modoc
Inland	Burson, Calaveras	South Coast	Canoga Park, Los Angeles
North Coast	Butler Valley, Humboldt	Desert	Cantil, Kern
Inland	Butte City, Glenn	Inland	Canyon Lake, Riverside
Inland/Mountain	Butte County	Mountain	Canyondam, Plumas
Mountain	Butte Meadows, Butte	Inland	Capay, Yolo
Mountain	Butte Valley, Siskiyou	North Coast	Cape Mendocino, Humboldt
Inland	Buttonwillow, Kern	North Coast	Cape San Martin, Monterey
Inland	Byron, Contra Costa	North Coast	Capetown, Humboldt
<b>C</b>		South Coast	Capistrano Beach, Orange
Desert	Cabazon, Riverside	South Coast	Capitan, Santa Barbara
Desert	Cadiz, San Bernardino	North Coast	Capitola, Santa Cruz
Desert	Cadiz Lake, San Bernardino	Mountain	Caples Lake, Alpine
Desert	Cadiz Valley, San Bernardino	Inland	Carbona, San Joaquin
Desert	Cady Mountains, San Bernardino	Inland	Carbondale, Amador
North Coast	Cahto Peak, Mendocino	South Coast	Cardiff-by-the-Sea, San Diego
Mountain	Cahuilla, Riverside	Mountain	Caribou, Plumas
Mountain	Cajon Junction, San Bernardino	North Coast	Carlotta, Humboldt
Mountain	Cajon Summit, San Bernardino	South Coast	Carlsbad, San Diego
South Coast	Calabasas, Los Angeles	North Coast	Carmel-by-the-Sea, Monterey
Desert	Calada, San Bernardino	North Coast	Carmel Highlands, Monterey
Inland/Mountain	Calaveras County	North Coast	Carmel Valley, Monterey
Inland/North Coast	Calaveras Reservoir, Alameda/Santa Clara	Inland	Carmichael, Sacramento
Inland	Calaveras River, San Joaquin	Mountain	Camelian Bay, Placer
Inland	Calaveritas, Calaveras	South Coast	Carpinteria, Santa Barbara
Inland	Calders Corner, Kern	Mountain	Carr Butte, Modoc
Desert	Calexico, Imperial	North Coast	Carrizo Plain, San Luis Obispo
Inland	Calflax, Fresno	Desert	Carrizo Wash, Imperial
Mountain	Caliente, Kern	Mountain	Carville, Trinity
North Coast	Caliente Range, San Luis Obispo	South Coast	Carson, Los Angeles
Desert	California City, Kern	Mountain	Carson River (East Fork), Alpine
Mountain	California Hot Springs, Tulare.	Mountain	Carson River (West Fork), Alpine
North Coast	California Valley, San Luis Obispo	Mountain	Cartago, Inyo
Inland	Calimesa, Riverside	Inland	Caruthers, Fresno
Desert	Calipatria, Imperial	Mountain	Cascade Range, Siskiyou
North Coast	Calistoga, Napa	South Coast	Casitas Springs, Ventura
Mountain	Callahan, Siskiyou	North Coast	Casmalia, Santa Barbara
Mountain	Calneva, Lassen	North Coast	Caspar, Mendocino
North Coast	Calpella, Medocino	Mountain	Cassel, Shasta
Mountain	Calpine, Sierra	South Coast	Castaic, Los Angeles
Inland	Calwa, Fresno	Mountain	Castella, Shasta
Inland	Camanche Reservoir, Amador/Calaveras	Inland	Castle Air Force Base, Merced
South Coast	Camarillo, Ventura	North Coast	Castro Valley, Alameda
North Coast	Cambria, San Luis Obispo	North Coast	Castroville, Monterey

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Mountain	Caswell, Los Angeles	Mountain	Clair Engle Lake, Trinity
Desert	Cathedral City, Riverside	Mountain	Claraville, Kern
Inland	Catheys Valley, Mariposa	South Coast	Claremont, Los Angeles
Inland	Catlett, Sutter	Desert	Clark Mountain, San Bernardino
Mountain	Cayton, Shasta	Inland	Clarksburg, Yolo
North Coast	Cayucos, San Luis Obispo	Inland	Clarksville, El Dorado
North Coast	Cazadero, Sonoma	Mountain	Clavey River, Tuolumne
Mountain	Cecilville, Siskiyou	Inland	Clay, Sacramento
Mountain	Cedar Grove, Fresno	Inland	Clayton, Contra Costa
Inland	Cedar Ridge, Nevada	Mountain	Clear Creek, Lassen
Desert	Cedar Wash, San Bernardino	North Coast	Clearlake, Lake
Mountain	Cedarville, Modoc	Mountain	Clear Lake Reservoir, Modoc
Inland	Centerville, Fresno	North Coast	Clearlake Highlands, Lake
North Coast	Centerville, Humboldt	North Coast	Clearlake Oaks, Lake
Inland	Centerville, Shasta	North Coast	Clearlake Park, Lake
Inland	Central Valley, Shasta	Inland	Clements, San Joaquin
Inland	Ceres, Stanislaus	North Coast	Cleone, Mendocino
South Coast	Cerritos, Los Angeles	Mountain	Clio, Plumas
North Coast	Cerro Alto, San Luis Obispo	Inland	Clipper Gap, Placer
Mountain	Cerro Gordo Peak, Inyo	Mountain	Clipper Mills, Butte
Mountain	Chalfant, Mono	Inland	Cloverdale, Shasta
Mountain	Challenge, Yuba	North Coast	Cloverdale, Sonoma
Desert	Chambless, San Bernardino	Inland	Clovis, Fresno
Mountain	Chanchelulla Peak, Trinity	Desert	Clyde, Imperial
South Coast	Chatsworth, Los Angeles	Desert	Coachella, Riverside
Inland	Chemurgic, Stanislaus	Desert	Coachella Valley, Riverside
Inland	Cherokee, Butte	Inland	Coalinga, Fresno
Mountain	Cherry Lake, Tuolumne	Inland	Coarsegold, Madera
Inland	Cherry Valley, Riverside	North Coast	Cobb, Lake
Mountain	Chester, Plumas	North Coast	Coburn, Monterey
Inland	Chicago Park, Nevada	Inland	Codora, Glenn
Inland	Chico, Butte	Inland	Cohasset, Butte
Mountain	Chidago Canyon, Mono	Mountain	Cold Springs, Tuolumne
Mountain	Chilcoot, Plumas	Mountain	Coleville, Mono
Desert	China Lake, San Bernardino	Inland	Colfax, Placer
Desert	China Lake, Kern	Inland	College City, Colusa
Mountain	China Peak, Trinity	Inland	Collegeville, San Joaquin
Inland	Chinese Camp, Tuolumne	Inland	Collierville, San Joaquin
Inland	Chino, San Bernardino	Inland	Collinsville, Solano
Inland	Chino Hills, San Bernardino	North Coast	Colma, San Mateo
Desert	Chiriaco Summit, Riverside	Inland	Coloma, El Dorado
Mountain	Chloride City, Inyo	Desert	Colorado River, San Bernardino
North Coast	Cholame, San Luis Obispo	Inland	Colton, San Bernardino
North Coast	Cholame Hills, Monterey	Inland	Columbia, Tuolumne
Inland	Chowchilla, Madera	Inland	Colusa, Colusa
Inland	Chowchilla Canal, Madera	Inland	Colusa Basin Drainage Canal, Yolo
Inland	Chrome, Glenn	Inland	Colusa County
North Coast	Chualar, Monterey	Inland	Colusa Trough, Colusa
Desert	Chubbuck, San Bernardino	South Coast	Commerce, Los Angeles
Desert	Chuckwalla Mountains, Riverside	North Coast	Comptche, Mendocino
Desert	Chuckwalla Valley, Riverside	South Coast	Compton, Los Angeles
South Coast	Chula Vista, San Diego	South Coast	Concepcion, Santa Barbara
Desert	Cima, San Bernardino	Inland	Concord, Contra Costa
Mountain	Cisco, Placer	Mountain	Condrey Mountain, Siskiyou
Inland	Citrus Heights, Sacramento	Inland	Conejo, Fresno
South Coast	City Terrace, Los Angeles	Inland	Conner, Kern

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Mountain	Constantia, Lassen	Inland	Crows Landing, Stanislaus
North Coast/Inland	Contra Costa County	Desert	Crucero, San Bernardino
Mountain	Cooks Station, Amador	Inland	Crystal Springs Reservoir, San Mateo
Inland	Cool, El Dorado.	Inland	Cucamonga, San Bernardino
Mountain	Copco, Siskiyou	South Coast	Cudahy, Los Angeles
Inland	Copperopolis, Calaveras	Desert	Cuddeback Lake, San Bernardino
Inland	Corcoran, Kings	Mountain	Cuddy Canyon, Kern/Ventura
Inland	Corcoran Reservoir, Kings	North Coast	Cuesta Pass, San Luis Obispo
Inland	Cordelia, Solano	South Coast	Culver City, Los Angeles
South Coast	Cornell, Los Angeles	North Coast	Cummings, Mendocino
Mountain	Cornell, Modoc	North Coast	Cunningham, Sonoma
Inland	Corning, Tehama	North Coast	Cupertino, Santa Clara
Inland	Corning Canal, Tehama	Mountain	Curtis, Siskiyou
Inland	Corona, Riverside	Inland	Cutler, Tulare
South Coast	Corona Del Mar, Orange	North Coast	Cutten, Humboldt
South Coast	Coronado, San Diego	North Coast	Cuyama, Santa Barbara
Inland	Corral Hollow, Alameda, San Joaquin	North Coast	Cuyama Valley, San Luis Obispo/Santa Barbara
North Coast	Corralitos, Santa Cruz	Desert	Cuyamaca Peak, San Diego
North Coast	Corte Madera, Marin	South Coast	Cypress, Orange
Mountain	Coso Hot Springs, Inyo	<b>D</b>	
Mountain	Coso Junction, Inyo	Desert	Daggett, San Bernardino
Mountain	Coso Peak, Inyo	Inland	Dairyland, Madera
Mountain	Coso Range, Inyo	Inland	Dairyville, Tehama
South Coast	Costa Mesa, Orange	Desert	Dale Lake, San Bernardino
Inland	Cosumnes River, Sacramento	Inland	Dales, Tehama
North Coast	Cotati, Sonoma	Mountain	Dalton, Modoc
South Coast	Coto De Caza, Orange	North Coast	Daly City, San Mateo
Mountain	Cottage Grove, Siskiyou	Mountain	Dana, Shasta
Inland	Cottonwood, Shasta	South Coast	Dana Point, Orange
Desert/Mountain	Cottonwood Canyon, Inyo	Desert	Danby, San Bernardino
Mountain	Cottonwood Mountains, Inyo	Desert	Danby Lake, San Bernardino
Desert	Cottonwood Wash, San Bernardino	Inland	Danville, Contra Costa
Mountain	Cougar, Siskiyou	Mountain	Dardanelle, Tuolumne
Inland	Coulterville, Mariposa	Inland	Darrah, Mariposa
Inland	Courtland, Sacramento	Mountain	Darwin, Inyo
Mountain	Courtright Reservoir, Fresno	Mountain	Darwin Wash, Inyo
North Coast	Covelo, Mendocino	Inland	Daulton, Madera
South Coast	Covina, Los Angeles	North Coast	Davenport, Santa Cruz
Mountain	Covington Mill, Trinity	Inland	Davis, Yolo
Mountain	Cow Head Lake, Modoc	Mountain	Davis Creek, Modoc
Mountain	Cowtrack Mountain, Mono	Desert	Dawes, San Bernardino
North Coast	Coyote, Santa Clara	Mountain	Day, Modoc
Desert	Coyote Lake, San Bernardino	Inland	Dayton, Butte
Desert	Coyote Wash, Imperial	Inland	De Luz, San Diego
Inland	Cranmore, Sutter	Inland	De Sabla, Butte
North Coast	Crannell, Humboldt	Mountain	Deadwood, Trinity
Mountain	Crater Mountain, Lassen	Desert	Death Valley, Inyo
North Coast	Crescent City, Del Norte	Desert	Death Valley Junction, Inyo
Mountain	Crescent Mills, Plumas	Desert	Death Valley Wash, Inyo
Inland	Cressey, Merced	Mountain	Dedrick, Trinity
Mountain	Crestline, San Bernardino	Desert	Deep Canyon, Riverside
North Coast	Creston, San Luis Obispo	South Coast	Deep Springs, Inyo
Mountain	Crestview, Mono	Mountain	Deep Springs Lake, Inyo
Inland	Crockett, Contra Costa	Inland	Deep Water Ship Channel, Solano/Yolo
Mountain	Cromberg, Plumas	Mountain	Deetz, Siskiyou
Desert	Cross Roads, San Bernardino	Inland	Del Dios, San Diego

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Mountain	Del Loma, Trinity	Inland	Dozler, Solano
South Coast	Del Mar, San Diego	South Coast	Drake, Santa Barbara
North Coast/Mountain	Del Norte County	North Coast	Drakes Bay, Marin
Inland	Del Paso Heights, Sacramento	North Coast	Drakes Estero, Marin
Inland	Del Rey, Fresno	Mountain	Drakesbad, Plumas
North Coast	Del Rey Oaks, Monterey	Mountain	Dry Canyon, Ventura
Mountain	Del Rosa, San Bernardino	Inland	Drytown, Amador
Inland	Delano, Kern	South Coast	Duarte, Los Angeles
Inland	Delevan, Colusa	Inland	Dublin, Alameda
Inland	Delhi, Merced	Inland	Ducor, Tulare
Mountain	Delleker, Plumas	Desert	Dugynos Canyon, San Diego
Mountain	Delta, Shasta	Inland	Dulzura, San Diego
Inland	Denair, Stanislaus	Mountain	Duncan Canyon, Placer.
Mountain	Denny, Trinity	North Coast	Duncans Mills, Sonoma
Inland	Denverton, Solano	Inland	Dunlap, Fresno
Inland	Derby Acres, Kern	Mountain	Dunmovin, Inyo
Desert	Descanso, San Diego	Inland	Dunnigan, Yolo
Desert	Desert, San Bernardino	Mountain	Dunsmuir, Siskiyou
Desert	Desert Beach, Riverside	Inland	Durham, Butte
Desert	Desert Center, Riverside	Desert	Durmid, Riverside
Desert	Desert Hot Springs, Riverside	Mountain	Dutch Flat, Placer
Desert	Desert Shores, Imperial	Mountain	Dwinnell Reservoir, Siskiyou
Desert	Desert View Highland, Los Angeles	<b>E</b>	
Mountain	Devils Canyon, Los Angeles	Desert	Eagle Crags, San Bernardino
Inland	Devils Den, Kern	Mountain	Eagle Lake, Lassen
Desert	Devils Playground, San Bernardino	Mountain	Eagle Lake Resort, Lassen
Desert	Devils Playground Wash, San Bernardino	Desert	Eagle Mountain, Riverside
Inland	Devore, San Bernardino	Desert	Eagle Mountains, Riverside
Inland	Di Giorgio, Kern	Mountain	Eagle Peak, Modoc
Inland	Diablo, Contra Costa	Mountain	Eagleville, Modoc
North Coast	Diablo Range, Santa Clara	Inland	Earlismart, Tulare
South Coast	Diamond Bar, Los Angeles	Desert	Earp, San Bernardino
Mountain	Diamond Mountains, Lassen/Plumas	Inland	East Biggs, Butte
Inland	Diamond Springs, El Dorado	Inland	East Highlands, San Bernardino
North Coast	Dillon Beach, Marin	South Coast	East Irvine, Orange
Mountain	Dinkey Creek, Fresno	South Coast	East Los Angeles, Los Angeles
North Coast	Dinsmores, Humboldt	Desert	East Mesa, Imperial
Inland	Dinuba, Tulare	Inland	East Nicolaus, Sutter
Inland	Discovery Bay, Contra Costa	North Coast	East Palo Alto, San Mateo
Mountain	Dixie Mountain, Plumas	Inland	East Park Reservoir, Colusa
Desert	Dixieland, Imperial	Mountain	East Quincy, Plumas
Inland	Dixon, Solano	Mountain	East Walker River, Mono
Inland	Dobbins, Yuba	South Coast	East Whittier, Los Angeles
Mountain	Dolomite, Inyo	Inland	Easton, Fresno
South Coast	Dominguez, Los Angeles	Mountain	Ebbetts Pass, Alpine
Mountain	Donner Pass, Nevada/Placer	North Coast	Echo, Mendocino
Mountain	Dorrington, Calaveras	Desert	Echo Canyon, Inyo
Mountain	Dorris, Siskiyou	Mountain	Echo Lake, El Dorado
Desert	Dos Cabezas, San Diego	Mountain	Echo Summit, El Dorado
Inland	Dos Palos, Merced	Mountain	Eder, Placer
North Coast	Dos Rios, Mendocino	Inland	Edgemont, Riverside
Mountain	Douglas City, Trinity	Mountain	Edgewood, Siskiyou
South Coast	Downey, Los Angeles	Inland	Edison, Kern
Mountain	Downie River, Sierra	North Coast	Edna, San Luis Obispo
Mountain	Downieville, Sierra	Desert	Edwards Air Force Base, Kern
Mountain	Doyle, Lassen	North Coast	Eel Rock, Humboldt

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Inland	El Cajon, San Diego	North Coast	Eureka, Humboldt
Desert	El Capitan Reservoir, San Diego	Mountain	Eureka Valley, Inyo
Desert	El Centro, Imperial	Inland	Exeter, Tulare
North Coast	El Cerrito, Contra Costa	<b>F</b>	
Inland	El Dorado, El Dorado	Inland	Fair Oaks, Sacramento
Inland/Mountain	El Dorado County	North Coast	Fairfax, Marin
Inland	El Dorado Hills, El Dorado	Inland	Fairfield, Solano
North Coast	El Granada , San Mateo	Inland	Fairmead, Madera
Desert	El Mirage, San Bernardino	Desert	Fairmont, Los Angeles
Desert	El Mirage Lake, San Bernardino	Mountain	Fairview, Tulare
South Coast	El Monte, Los Angeles	North Coast	Fairville, Sonoma
Inland	El Nido, Merced	Mountain	Fales Hot Springs, Mono
Desert	El Paso Mountains, Kern	North Coast	Falk, Humboldt
Mountain	El Portal, Mariposa	Mountain	Fall River, Shasta
South Coast	El Rio, Ventura	Mountain	Fall River Mills, Shasta
South Coast	El Segundo, Los Angeles	Inland	Fallbrook, San Diego
North Coast	El Sobrante, Contra Costa	Mountain	Fallen Leaf Lake, El Dorado
South Coast	El Toro, Orange	North Coast	Fallon, Marin
North Coast	El Verano, Sonoma	Inland	Famoso, Kern
Inland	Elders Corner, Placer	Mountain	Fandango Pass, Modoc
Inland	Elderwood, Tulare	North Coast	Farallon Island, San Francisco
Mountain	Elizabeth Lake Canyon, Los Angeles	Inland	Farmersville, Tulare
North Coast	Elk, Mendocino	Inland	Farmington, San Joaquin
Inland	Elk Bayou, Tulare	Mountain	Fawnskin, San Bernardino
Inland	Elk Creek, Glenn	Mountain	Feather Falls, Butte
Inland	Elk Grove, Sacramento	Inland	Feather River, Sutter
North Coast	Elk River, Humboldt	Mountain	Feather River (Middle Fork), Butte
North Coast	Elk River (North Fork), Humboldt	Mountain	Feather River (North Fork), Butte
North Coast	Elk River (South Fork), Humboldt	Inland	Fellows, Kern
North Coast	Elkhorn Slough, Monterey	North Coast	Felton, Santa Cruz
Inland	Elmira, Solano	Desert	Fenner, San Bernardino
Inland	Elsinore, Riverside	Desert	Fenner Valley, San Bernardino
Inland	Elverta, Sacramento	Desert	Ferguson Lake, Imperial
South Coast	Emerald Bay, Orange	Inland	Fern, Shasta
Desert	Emerson Lake, San Bernardino	North Coast	Fernbridge, Humboldt
North Coast	Emeryville, Alameda	Inland	Fernbrook, San Diego
Mountain	Emigrant Canyon, Inyo	North Coast	Ferndale, Humboldt
Mountain	Emigrant Gap, Placer	Inland	Fiddletown, Amador
Inland	Empire, Stanislaus	North Coast	Fieldbrook, Humboldt
Inland	Encanto, San Diego	North Coast	Fields Landing, Humboldt
South Coast	Encinitas, San Diego	Inland	Figarden, Fresno
South Coast	Encino, Los Angeles	South Coast	Fillmore, Ventura
Inland	Enterprise, Shasta	North Coast	Finley, Lake
Mountain	Erickson, Siskiyou	Inland	Firebaugh, Fresno
Inland	Escalon, San Joaquin	Mountain	Fish Camp, Mariposa
Inland	Escondido, San Diego	Mountain	Fish Springs, Inyo
Inland	Esparto, Yolo	Inland	Five Points, Fresno
Desert	Essex, San Bernardino	Mountain	Fletcher, Modoc
North Coast	Estero Bay, San Luis Obispo	South Coast	Florence, Los Angeles
North Coast	Estrella, San Luis Obispo	Mountain	Florence Lake, Fresno
North Coast	Estrella River, San Luis Obispo	Mountain	Florence Peak, Tulare
North Coast	Etiwanda, San Bernardino	Inland	Florin, Sacramento
Mountain	Etna, Siskiyou	Mountain	Floriston, Nevada
Mountain	Etsel Ridge, Mendocino	Inland	Flourmoy, Tehama
North Coast	Ettersburg, Humboldt	Desert	Flynn, San Bernardino
Inland	Eugene, Stanislaus	Inland	Folsom, Sacramento

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
Inland	Fontana, San Bernardino	Inland	Friant, Fresno
Inland	Foothill Farms, Sacramento	Inland	Friant Dam, Madera
Mountain	Forbestown, Butte	Desert	Fried Liver Wash, Riverside
Inland	Ford City, Kern	Desert	Frink, Imperial
Desert	Ford Dry Lake, Riverside	Inland	Fruto, Glenn
Mountain	Forest, Sierra	South Coast	Fullerton, Orange
Mountain	Forest Falls, San Bernardino	North Coast	Fulton, Sonoma
Mountain	Forest Glen, Trinity	Desert	Funeral Park, Inyo
Mountain	Forest Hill Divide, Placer	Desert	Furnace Creek Wash, Inyo
North Coast	Forest Knolls, Marin	<b>G</b>	
Inland	Forest Ranch, Butte	Inland	Galt, Sacramento
Mountain	Foresthill, Placer	Mountain	Ganns, Calaveras
North Coast	Forestville, Sonoma	North Coast	Garberville, Humboldt
Mountain	Forks of Salmon, Siskiyou	Inland	Garden Acres, San Joaquin
North Coast	Fort Baker, Marin	South Coast	Garden Grove, Orange
Mountain	Fort Bidwill, Modoc	Inland	Garden Valley, El Dorado
North Coast	Fort Bragg, Mendocino	South Coast	Gardena, Los Angeles
North Coast	Fort Dick, Del Norte	North Coast	Garey, Santa Barbara
Mountain	Fort Goff, Siskiyou	Desert	Garlock, Kern
Mountain	Fort Jones, Siskiyou	Inland	Gas Point, Shasta
South Coast	Fort MacArthur, San Diego	Mountain	Gasquet, Del Norte
North Coast	Fort Ord, Monterey	South Coast	Gaviota, Santa Barbara
North Coast	Fort Ross, Sonoma	South Coast	Gaviota Pass, Santa Barbara
North Coast	Fort Seward, Humboldt	Mountain	Gazelle, Siskiyou
North Coast	Fortuna, Humboldt.	Mountain	Genesee, Plumas
Desert	Fossil Canyon, San Bernardino	Desert	George A.F.B., San Bernardino
North Coast	Foster City, San Mateo	Inland	Georgetown, El Dorado
Inland	Fountain Springs, Tulare	Inland	Gerber, Tehama
Inland	Fountain Springs Gulch, Tulare	North Coast	Geyserville, Sonoma
South Coast	Fountain Valley, Orange	Mountain	Giant Forest, Tulare
Inland	Fourth Crossing, Calaveras	Mountain	Gibson Peak, Trinity
Inland	Fouts Springs, Colusa	Mountain	Gibsonville, Sierra
Inland	Fowler, Fresno	Inland	Gillman Hot Springs, Riverside
North Coast	Foxen Canyon, Santa Barbara	North Coast	Gilroy, Santa Clara
Inland	Franklin, Sacramento	Inland	Girvan, Shasta
Desert	Franklin Well, Inyo	Mountain	Glacier, Inyo
Mountain	Frazier Mountain, Ventura	Desert	Glamis, Imperial
Mountain	Frazier Park, Kern	Desert	Glasgow, San Bernardino
Mountain	Fredonyer Peak, Lassen	Mountain	Glass Mountain, Mono
North Coast	Freedom, Santa Cruz	Inland	Glen Avon, Riverside
Mountain	Freel Peak, Alpine/El Dorado	North Coast	Glen Ellen, Sonoma
Desert	Freeman Junction, Kern	Mountain	Glenburg, Shasta
Inland	Freeport, Sacramento	Inland	Glencoe, Calaveras
North Coast	Freestone, Sonoma	South Coast	Glendale, Los Angeles
North Coast	Fremont, Alameda	South Coast	Glendora, Los Angeles
Desert	Fremont Peak, San Bernardino	North Coast	Glenhaven, Lake
Desert	Fremont Valley, Kern	Inland	Glenn, Glenn
Desert	Fremont Wash, San Bernardino	Inland	Glenn Colusa Canal, Colusa
Inland	French Camp, San Joaquin	Mountain/Inland	Glenn County
Inland	French Corral, Nevada	Mountain	Glennville, Kern
Inland	French Gulch, Shasta	Desert	Goffs, San Bernardino
Mountain	Frenchman Lake, Plumas	Mountain	Gold Canyon, Kern
North Coast	Freshwater, Humboldt	Desert	Gold Rock Rch, Imperial
Inland	Fresno, Fresno	Mountain	Gold Run, Placer
Inland/Mountain	Fresno County	North Coast	Golden Gate, San Francisco, Marin
Inland	Fresno Slough, Fresno	Desert	Goldstone, San Bernardino

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
Desert	Goldstone Lake, San Bernardino	Inland	Gustine, Merced
South Coast	Goleta, Santa Barbara	<b>H</b>	
North Coast	Gonzales, Monterey	North Coast	Hacienda, Sonoma
Mountain	Goodyears Bar, Sierra	South Coast	Hacienda Heights, Los Angeles
Mountain	Goose Lake, Modoc	Mountain	Hackamore, Modoc
Mountain	Goosenest, Siskiyou	Mountain	Haiwee Reservoir, Inyo
North Coast	Gorda, Monterey	North Coast	Hales Grove, Mendocino
Mountain	Gordon Mountain, Del Norte	Mountain	Half Dome, Mariposa
Desert	Gordons Well, Imperial	North Coast	Half Moon Bay, San Mateo
Mountain	Gorman, Los Angeles	Desert	Halloran Springs, San Bernardino
Inland	Goshen, Tulare	Mountain	Halls Flat, Lassen
Mountain	Goumaz, Lassen	Mountain	Hambone, Siskiyou
Inland	Grand Terrace, San Bernardino	Mountain	Hamburg, Siskiyou
Inland	Grangeville, Kings	North Coast	Hamilton A.F.B., Marin
Inland	Granite Bay, Placer	Inland	Hamilton City, Glenn
Mountain	Granite Chief, Placer	Inland	Hammonton, Yuba
Desert	Granite Mountains, San Bernardino	Inland	Hanford, Kings
Mountain	Graniteville, Nevada	Mountain	Happy Camp, Siskiyou
Mountain	Grant Grove, Tulare	Inland	Harbinson Canyon, San Diego
Mountain	Grant Lake, Mono	South Coast	Harbor City, Los Angeles
Inland	Grapevine, Kern	Mountain	Harden Flat, Tuolumne
Mountain	Grass Lake, Siskiyou	Inland	Hardwick, Kings
Inland	Grass Valley, Nevada	North Coast	Harmony, San Luis Obispo
North Coast	Graton, Sonoma	North Coast	Harris, Humboldt
Inland	Grayson, Stanislaus	Desert	Harper Lake, San Bernardino
Mountain	Green Valley, Los Angeles	Desert	Hart, San Bernardino
Mountain	Green Valley Lake, San Bernardino	Mountain	Hat Creek, Shasta
Inland	Greenacres, Kern	Mountain	Hathaway Pines, Calaveras
Inland	Greenfield, Kern	Desert	Havasu Lake, San Bernardino
North Coast	Greenfield, Monterey	Mountain	Havilah, Kern
Mountain	Greenhorn Mountains, Kern/Tulare	South Coast	Hawaiian Gardens, Los Angeles
Mountain	Greenview, Siskiyou	Desert	Hawes, San Bernardino
Mountain	Greenville, Plumas	Mountain	Hawkinsville, Siskiyou
Desert	Greenwater Range, Inyo	South Coast	Hawthorne, Los Angeles
Inland	Greenwood, El Dorado	Mountain	Hayden Hill, Lassen.
Inland	Greenwood, Glenn	Desert	Hayfield, Riverside
Mountain	Grenada, Siskiyou	Desert	Hayfield Lake, Riverside
Inland	Gridley, Butte	Mountain	Hayfork, Trinity
Inland	Grimes, Colusa	Mountain	Hayfork Bally, Trinity
Inland	Grizzly Bay, Solano	North Coast	Hayward, Alameda
Mountain	Grizzly Flat, El Dorado	North Coast	Healdsburg, Sonoma
Desert	Grommet, San Bernardino	North Coast	Hearst, Mendocino
South Coast	Grossmont, San Diego	Desert	Heber, Imperial
Mountain	Grouse Mountain, Modoc	Desert	Hector, San Bernardino
Inland	Groveland, Tuolumne	Mountain	Helena, Trinity
North Coast	Grover City, San Luis Obispo	Desert	Helendale, San Bernardino
North Coast	Grover Beach, San Luis Obispo	Inland	Helm, Fresno
Mountain	Grover Hot Springs, Alpine	Inland	Hemet, Riverside
North Coast	Guadalupe, Santa Barbara	North Coast	Henderson Village, San Joaquin
North Coast	Gualala, Mendocino	Inland	Henleyville, Tehama
North Coast	Gualala River (South Fork), Mendocino	Inland	Herald, Sacramento
Desert	Guatay, San Diego	North Coast	Hercules, Contra Costa
North Coast	Guerneville, Sonoma	Mountain	Herlong, Lassen
Inland	Guernsey, Kings	Inland	Hemdon, Fresno
Inland	Guinda, Yolo	South Coast	Hermosa Beach, Los Angeles
North Coast	Gulf of the Farallones, Marin/San Francisco	Desert	Hesperia, San Bernardino

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
Inland	Hetch Hetchy Junction, Tuolumne	North Coast	Humboldt Bay, Humboldt
Mountain	Hetch Hetchy Reservoir, Tuolumne	North Coast/Mountain	Humboldt County
Desert	Hi Vista, Los Angeles	Mountain	Hume, Fresno
Inland	Hickman, Stanislaus	Inland	Humphreys Station, Fresno
South Coast	Hidden Hills, Los Angeles	South Coast	Huntington Beach, Orange
Mountain	Hidden Springs, Los Angeles	Mountain	Huntington Lake, Fresno
Inland	Hidden Valley, Placer	South Coast	Huntington Park, Los Angeles
Inland	Higgins Corner, Nevada	North Coast	Hupa Mountain, Humboldt
Inland	High Peak, Glenn	Inland	Huron, Fresno
Inland	Highgrove, Riverside	Mountain	Hyampom, Trinity
Inland	Highland, San Bernardino	North Coast	Hydesville, Humboldt
South Coast	Highland Park, Los Angeles	I	
Mountain	Highland Peak, Alpine	North Coast	Idria, San Benito
Inland	Highway City, Fresno	North Coast	Idlewild, Del Norte
Mountain	Hillcrest Center, Kern	Mountain	Idyllwild, Riverside
Inland	Hills Ferry, Stanislaus	Inland	Igo, Shasta
North Coast	Hillsborough, San Mateo	Desert	Imperial, Imperial
Inland	Hilmar, Merced	South Coast	Imperial Beach, San Diego
Mountain	Hilt, Siskiyou	Desert/Desert	Imperial County
Desert	Hinkley, San Bernardino	Desert	Imperial Dam, Imperial
North Coast	Hiouchi, Del Norte	Desert	Imperial Reservoir, Imperial
Mountain	Hobart Mills, Nevada	Desert	Imperial Valley, Imperial
North Coast	Hobergs, Lake	Desert	Inca, Riverside
Desert	Hodge, San Bernardino	Mountain	Independence, Inyo
North Coast	Hog Canyon, San Luis Obispo	Desert	Indian Wells, Riverside
Mountain	Hollenbeck, Modoc	Desert	Indian Wells Valley, Kern
North Coast	Hollister, San Benito	Desert	Indio, Riverside
South Coast	Hollywood, Los Angeles	South Coast	Industry, Los Angeles
South Coast	Hollywood-by-the-Sea, Ventura	North Coast	Inglenuok, Mendocino
North Coast	Holmes, Humboldt	South Coast	Inglewood, Los Angeles
Inland	Holt, San Joaquin	Inland	Ingomar, Merced
Desert	Holtville, Imperial	Inland	Ingot, Shasta
Inland	Home Gardens, Riverside	Mountain	Inskip, Butte
Inland	Homeland, Riverside	Inland	Inskip Hill, Tehama
Desert	Homer, San Bernardino	North Coast	Inverness, Marin
Desert	Homer Wash, San Bernardino	Inland	Inwood, Shasta
Mountain	Homewood, Placer	Desert/Mountain	Inyo County
Inland	Honcut, Butte	Mountain	Inyo Mountains, Inyo
North Coast	Honda, Santa Barbara	Desert	Inyokern, Kern
Mountain	Honey Lake, Lassen	Inland	Ione, Amador
North Coast	Honeydew, Humboldt	Mountain	Iowa Hill, Placer
Inland	Honker Bay, Solano	Desert	Iris, Imperial
Inland	Hood, Sacramento	North Coast	Irish Hills, San Luis Obispo
Inland	Hooker, Tehama	Inland	Iron Mountain, Shasta
North Coast	Hoopa, Humboldt	South Coast	Irvine, Orange
Inland	Hopeton, Merced	Inland	Irwin, Merced
North Coast	Hopland, Mendocino	South Coast	Inwindale, Los Angeles
Mountain	Hornbrook, Siskiyou	Mountain	Isabella Reservoir, Kern
Inland	Hornitos, Mariposa	South Coast	Isla Vista, Santa Barbara
Mountain	Horse Creek, Siskiyou	North Coast	Island Mountain, Trinity
Mountain	Horse Flat, Del Norte	Inland	Isleton, Sacramento
Mountain	Horse Lake, Lassen	Inland	Ivanhoe, Tulare
Mountain	Hotlum, Siskiyou	Desert	Ivanpah, San Bernardino
North Coast	Huasna, San Luis Obispo	Desert	Ivanpah Lake, San Bernardino
North Coast	Huasna River, San Luis Obispo	Desert	Ivanpah Valley, San Bernardino
Inland	Hughson, Stanislaus	Inland	Ivesta, Fresno

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
<b>J</b>			
Inland	Jackson, Amador	Inland	Kerman, Fresno
Mountain	Jackson Meadows Reservoir, Nevada/Sierra	Inland/Desert/Mountain	Kern County
Inland	Jacksonville, Tuolumne	Mountain	Kern River (South Fork), Kern
Desert	Jacumba, San Diego	Inland	Kern River Channel, Kings
Desert	Jacumba Mountains, San Diego	Mountain	Kemville, Kern
North Coast	Jalama, Santa Barbara	Inland	Keswick, Shasta
Inland	Jamesan, Fresno	North Coast	Kettenpom, Trinity
North Coast	Jamesburg, Monterey	Inland	Kettleman City, Kings
Inland	Jamestown, Tuolumne	Inland	Kettleman Hills, Kings
Inland	Jamul, San Diego	Inland	Keyes, Stanislaus
Mountain	Janesville, Lassen	North Coast	King City, Monterey
Inland	Jasmin, Kern	North Coast	King Range, Humboldt
Desert	Java, San Bernardino	Mountain	Kings Beach, Placer
Mountain	Jellico, Lassen	Inland	Kings County
North Coast	Jenner, Sonoma	Inland	Kings River, Fresno/Kings
Inland	Jenny Lind, Calaveras	Mountain	Kings River (Middle Fork), Fresno
Mountain	Jerome, Siskiyou	Mountain	Kings River (North Fork), Fresno
Mountain	Jess Valley, Modoc	Mountain	Kings River (South Fork), Fresno
North Coast	Jimtown, Sonoma	Inland	Kingsburg, Fresno
Desert	Johannesburg, Kern	Desert	Kingston Peak, San Bernardino
Mountain	Johnsontdale, Tulare	Desert	Kingston Wash, San Bernardino
North Coast	Johnsons, Humboldt	Mountain	Kinyon, Siskiyou
Mountain	Johnstonville, Lassen	Inland	Kirkville, Sutter
Mountain	Johnsville, Plumas	Inland	Kirkwood, Sutter
South Coast	John Wayne AP	Inland	Kismet, Madera
North Coast	Jolon, Monterey	North Coast	Klamath, Del Norte
Mountain	Jonesville, Butte	North Coast	Klamath Glen, Del Norte
Inland	Josephine, Sutter	Mountain	Klamath Mountains, Siskiyou
Desert	Joshua Tree, San Bernardino	Mountain	Klamath River, Siskiyou
Desert	Julian, San Diego	Mountain	Klamathon, Siskiyou
Mountain	Junction City, Trinity	Desert	Klondike, San Bernardino
Mountain	June Lake, Mono	North Coast	Kneeland, Humboldt
Desert	Juniper Hills, Los Angeles	Inland	Knights Ferry, Stanislaus
North Coast	Junipero Serra Peak, Monterey	Inland	Knights Landing, Yolo
<b>K</b>		Inland	Knightsen, Contra Costa
Mountain	Kaiser Peak, Fresno	Mountain	Knob, Shasta
Mountain	Kandra, Modoc	Inland	Knowles, Madera
Mountain	Karlo, Lassen	North Coast	Knoxville, Napa
Inland	Kaweah, Tulare	Desert	Koehn Lake, Kern
Mountain	Kaweah River (Middle Fork), Tulare	North Coast	Korbel, Humboldt
Mountain	Kearsarge, Inyo	Desert	Kramer Junction, San Bernardino
Inland	Kecks Corner, Kern	Mountain	Kyburz, El Dorado
Mountain	Keddie, Plumas	<b>L</b>	
Mountain	Keddie Ridge, Plumas	Mountain	L.L. Anderson Reservoir, Placer
Mountain	Keeler, Inyo.	Inland	La Barr, Nevada
Mountain	Keene, Kern	South Coast	La Canada Flintridge, Los Angeles
North Coast	Kekawaka, Trinity	South Coast	La Crescenta, Los Angeles
Inland	Kelsey, El Dorado	Inland	La Grange, Stanislaus
North Coast	Kelseyville, Lake	South Coast	La Habra, Orange
Desert	Kelso, San Bernardino	South Coast	La Habra Heights, Los Angeles
Desert	Kelso Wash, San Bernardino	North Coast	La Honda, San Mateo
North Coast	Kentfield, Marin	South Coast	La Jolla, San Diego
North Coast	Kenwood, Sonoma	South Coast	La Mesa, San Diego
Mountain	Keough Hot Springs, Inyo	South Coast	La Mirada, Los Angeles
Mountain	Kephart, Modoc	South Coast	La Palma, Orange
		North Coast	La Panza Range, San Luis

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
Obispo		Desert	Lancaster, Los Angeles
Mountain	La Porte, Plumas	Desert	Landers, San Bernardino
South Coast	La Puente, Los Angeles	Desert	Lane Mountain, San Bernardino
Desert	La Quinta, Riverside	Desert	Lanfair Valley, San Bernardino
North Coast	La Selva Beach, Santa Cruz	North Coast	Larkspur, Marin
South Coast	La Verne, Los Angeles	North Coast	Las Cruces, Santa Barbara
Inland	La Vina, Madera	South Coast	Las Flores, San Diego
Inland	Lafayette, Contra Costa	Inland	Las Plumas, Butte
South Coast	Laguna Beach, Orange	Mountain	Lassen County
Desert	Laguna Dam, Imperial	Mountain	Lassen Peak, Shasta
South Coast	Laguna Hills, Orange	Desert	Last Chance Canyon, Kern
South Coast	Laguna Niguel, Orange	Mountain	Last Chance Range, Inyo
Mountain	Lake Almanor, Plumas	Inland	Lathrop, San Joaquin
Mountain	Lake Alpine, Alpine	Inland	Laton, Fresno
Mountain	Lake Arrowhead, San Bernardino	Inland	Latrobe, El Dorado
North Coast	Lake Berryessa, Napa	Mountain	Lava Beds, Modoc
Mountain	Lake Britton, Shasta	Desert	Lavic, San Bernardino
North Coast	Lake Cachuma, Santa Barbara	Desert	Lavic Lake, San Bernardino
South Coast	Lake Casitas, Ventura	South Coast	Lawndale, Los Angeles
Mountain	Lake City, Modoc	Mountain	Laws, Inyo
North Coast	Lake County	Inland	Le Grand, Merced
Mountain	Lake Crowley, Mono	Desert	Leach Lake, San Bernardino
Mountain	Lake Davis, Plumas	Mountain	Leavitt, Lassen
Inland	Lake Del Valley, Alameda	Mountain	Leavitt Peak, Mono/Tuolumne
North Coast	Lake Earl, Del Norte	Mountain	Lebec, Kern
Mountain	Lake Eleanor, Tuolumne	Mountain	Lee Vining, Mono
Inland	Lake Elsinore, Riverside	Mountain	Lee Wash, Inyo
South Coast	Lake Forest, Orange	Mountain	Leech Lake Mountain, Mendocino
Desert	Lake Havasu, San Bernardino	Inland	Leesville, Colusa
North Coast	Lake Hennessey, Napa	North Coast	Leggett, Mendocino
Desert	Lake Henshaw, San Diego	South Coast	Lemon Grove, San Diego
Mountain	Lake Isabella, Kern	Inland	Lemoncove, Tulare
Inland	Lake Kaweah, Tulare	Inland	Lemoore, Kings
Inland	Lake Mathews, Riverside	South Coast	Lennox, Los Angeles
Inland	Lake McClure, Mariposa	Desert	Lenwood, San Bernardino
North Coast	Lake Mendocino, Mendocino	Desert	Leona Valley, Los Angeles
Mountain	Lake Mountain, Siskiyou	South Coast	Leucadia, San Diego
Inland	Lake Oroville, Butte	Mountain	Lewiston, Trinity
Inland	Lake Perris, Riverside	Mountain	Lewiston Lake, Trinity
North Coast	Lake Pillsbury, Lake	Inland	Liberty Farms, Solano
Mountain	Lake Spaulding, Nevada	Inland	Libfarm, Solano
Inland	Lake Success, Tulare	Mountain	Likely, Modoc
Mountain	Lake Tahoe, El Dorado/Placer	Inland	Lincoln, Placer
Inland	Lake Wyandotte, Butte	Inland	Lincoln Village, San Joaquin
Mountain	Lakehead, Shasta	Inland	Linda, Yuba
Inland	Lakeland Village, Riverside	South Coast	Linda Vista, San Diego
North Coast	Lakeport, Lake	Inland	Lindcove, Tulare
Mountain	Lakeshore, Fresno	Inland	Linden, San Joaquin
Inland	Lakeside, San Diego	Inland	Lindsay, Tulare
Inland	Lakeview, Kern	Mountain	Litchfield, Lassen
Inland	Lakeview, Riverside	Desert	Little Dixie Wash, Kern
North Coast	Lakeville, Sonoma	Mountain	Little Grass Valley Reservoir, Plumas
South Coast	Lakewood, Los Angeles	Mountain	Little Kern River, Tulare
Mountain	Lamoine, Shasta	Mountain	Little Lake, Inyo
Inland	Lamont, Kern	Inland	Little Panoche, Fresno
Inland	Lanare, Fresno	North Coast	Little River, Humboldt

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
North Coast	Little River, Mendocino	North Coast	Los Olivos, Santa Barbara
North Coast	Little Rock Wash, Los Angeles	North Coast	Los Osos, San Luis Obispo
Mountain	Little Shasta, Siskiyou	Inland	Lost Hills, Kern
Mountain	Little Shasta River, Siskiyou	Mountain	Lost River, Modoc
Mountain	Little Truckee River, Sierra	Mountain	Lostman Spring, Inyo
Mountain	Little Valley, Lassen	Inland	Lotus, El Dorado
Mountain	Little Walker River, Mono	Mountain	Lower Bear River Reservoir, San Diego
Desert	Littlerock, Los Angeles	Mountain	Lower Klamath Lake, Siskiyou
North Coast	Live Oak, Santa Cruz	North Coast	Lower Lake, Lake
Inland	Live Oak, Sutter	Mountain	Lower Lake, Modoc
Desert	Live Oak Springs, San Diego	Inland	Loert Otay Reservoir, San Diego
Inland	Livermore, Alameda	Inland	Lowrey, Tehama
Inland	Livingston, Merced	Mountain	Loyalton, Sierra
North Coast	Llanada, San Benito	North Coast	Lucerne, Lake
Desert	Llano, Los Angeles	Desert	Lucerne Lake, San Bernardino
Inland	Lockeford, San Joaquin	Desert	Lucerne Valley, San Bernardino
Desert	Lockhart, San Bernardino	North Coast	Lucia, Monterey
North Coast	Lockwood, Monterey	Desert	Ludlow, San Bernardino
Mountain	Loco, Inyo	South Coast	Lynwood, Los Angeles
Mountain	Lodgepole, Lassen	Mountain	Lyonsville, Tehama
Inland	Lodi, San Joaquin	Mountain	Lytle Creek, San Bernardino
Inland	Lodoga, Colusa	North Coast	Lytton, Sonoma
Inland	Logandale, Glenn	<b>M</b>	
North Coast	Loleta, Humboldt	Mountain	Macdoel, Siskiyou
Inland	Loma Linda, San Bernardino	Mountain	Madeline, Lassen
North Coast	Loma Mar, San Mateo	Mountain	Madeline Plains, Lassen
North Coast	Loma Prieta, Santa Clara	Inland	Madera, Madera
Inland	Loma Rica, Yuba	Inland	Madera Canal, Madera
South Coast	Lomita, Los Angeles	Inland/Mountain	Madera County
Mountain	Lomo, Butte	Inland	Madison, Yolo
Inland	Lomo, Sutter	Inland	Magalia, Butte
North Coast	Lompoc, Santa Barbara	North Coast	Mail Ridge, Humboldt
Mountain	Lone Pine, Inyo	Inland	Malaga, Fresno
Mountain	Lone Tree Canyon, Kern	South Coast	Malibu, Los Angeles
Mountain	Long Barn, Tuolumne	Mountain	Mammoth, Modoc
South Coast	Long Beach, Los Angeles	Mountain	Mammoth Lakes, Mono
North Coast	Longvale, Mendocino	Mountain	Mammoth Pool Reservoir, Fresno/Madera
North Coast	Lonoak, Monterey	Desert	Mammoth Wash, Imperial
Mountain	Lookout, Modoc	North Coast	Manchester, Mendocino
Mountain	Lookout Junction, Modoc	South Coast	Manhattan Beach, Los Angeles
Inland	Loomis, Placer	Desert	Manix, San Bernardino
Mountain	Loon Lake Reservoir, El Dorado	Mountain	Manley Peak, Inyo
North Coast	Lopez Lake, San Luis Obispo	Inland	Manteca, San Joaquin
Mountain	Lorraine, Kern	Mountain	Manton, Tehama
South Coast	Los Alamitos, Orange	Mountain	Manzanita Lake, Shasta
North Coast	Los Alamos, Santa Barbara	North Coast	Maple Creek, Humboldt
North Coast	Los Altos, Santa Clara	Mountain	Marble Canyon, Inyo
North Coast	Los Altos Hills, Santa Clara	Inland	March A.F.B., Riverside
South Coast	Los Angeles, Los Angeles	North Coast	Mare Island Naval Facility, Solano
South Coast/Desert/Mountain	Los Angeles County	Inland	Margarita Peak, San Diego
Inland	Los Banos, Merced	Inland	Maricopa, Kern
Inland	Los Banos Reservoir, Merced	North Coast	Marin City, Marin
North Coast	Los Berros Canyon, San Luis Obispo	North Coast	Marin County
North Coast	Los Gatos, Santa Clara	North Coast	Marina, Monterey
Inland	Los Molinos, Tehama	Inland	Mariposa, Mariposa
South Coast	Los Nietos, Los Angeles	Inland/Mountain	Mariposa County

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
Mountain	Markleeville, Alpine	Inland	Mettler, Kern
North Coast	Marshall, Marin	North Coast	Metz, Monterey
Inland	Martell, Amador	Mountain	Meyers, El Dorado
Inland	Martinez, Contra Costa	Mountain	Michigan Bluff, Placer
Desert	Martinez Canyon, Riverside	Mountain	Middle Alkali Lake, Modoc
Inland	Marysville, Yuba	Inland	Middle River, San Joaquin
Mountain	Mason Station, Lassen	Inland	Middle River Town, San Joaquin
Mountain	Massack, Plumas	Mountain	Middle Tuolumne River, Tuolumne
Mountain	Mather, Tuolumne	Mountain	Middle Yuba River, Nevada/Yuba
Inland	Mather Air Force Base, Sacramento	North Coast	Middletown, Lake
Inland	Matheson, Shasta	Desert	Midland, Riverside
Mountain	Matterhorn Peak, Mono/Tuolumne	Mountain	Midpines, Mariposa
North Coast	Mattole River, Humboldt	Inland	Midway, Alameda
North Coast	Mattole River (North Fork), Humboldt	Desert	Midway, San Bernardino
North Coast	Mattole River (South Fork), Humboldt	Desert	Midway Well, Inyo
Inland	Maxwell, Colusa	Mountain	Milford, Lassen
Mountain	May, Siskiyou	Mountain	Mill Creek, Tehama
North Coast	Mayacmas Mountains, Lake/Mendocino	North Coast	Mill Valley, Marin
South Coast	Maywood, Los Angeles	North Coast	Millbrae, San Mateo
Mountain	McArthur, Modoc	Desert	Miller Spring, Inyo
Mountain	McArthur, Shasta	Inland	Millerton Lake, Fresno/Madera
North Coast	McCann, Humboldt	Desert	Milligan, San Bernardino
Inland	McClellan Air Force Base, Sacramento	Inland	Millville, Shasta
Mountain	McCloud, Siskiyou	Inland	Milo, Tulare
Mountain	McCloud River, Shasta	North Coast	Milpitas, Santa Clara
Desert	McCoy Wash, Riverside	Inland	Milton, Calaveras
Mountain	McDonald Peak, Lassen	North Coast	Mina, Mendocino
Inland	McFarland, Kern	Mountain	Mineral, Tehama
Mountain	McGee Canyon, Mono	Mountain	Mineral King, Tulare
North Coast	McKinleyville, Humboldt	Desert	Minneola, San Bernardino
Inland	McKittrick, Kern	South Coast	Mira Canyon, Los Angeles
North Coast	McMillan Canyon, San Luis Obispo	Inland	Mira Loam, Riverside
Mountain	Meadow Lakes, Fresno	Mountain	Miracle Hot Springs, Kern
Mountain	Meadow Valley, Plumas	North Coast	Miramar, San Mateo
Inland	Meadow Vista, Placer	South Coast	Miramar Naval Air Station, San Diego
Mountain	Meares, Modoc	Inland	Miramonte, Fresno
Desert	Mecca, Riverside	North Coast	Miranda, Humboldt
Mountain	Meeks Bay, El Dorado	South Coast	Mission Bay, San Diego
South Coast	Meiners Oaks, Ventura	South Coast	Mission Viejo, Orange
Mountain	Meiss Lake, Siskiyou	Desert	Mitchell Caverns, San Bernardino
Inland	Melones Reservoir, Calaveras/Tuolumne	Inland	Mi-Wuk Village, Tuolumne
North Coast	Mendocino, Mendocino	Mountain	Moccasin, Plumas
North Coast/Mountain	Mendocino County	Inland	Moccasin, Tuolumne
Inland	Mendota, Fresno	Inland	Modesto, Stanislaus
North Coast	Menlo Park, San Mateo	Inland	Modesto Reservoir, Stanislaus
Inland	Mentone, San Bernardino	South Coast	Modjeska, Orange
Inland	Merced, Merced	Mountain	Modoc County
Inland	Merced County	North Coast	Moffett Field Naval Air Station, Santa Clara
Inland	Merced Falls, Merced	Desert	Mojave, Kern
Inland	Merced River, Merced	Desert	Mojave River, San Bernardino
Mountain	Merced River (South Fork), Mariposa	Desert	Jojave River Forks Reservoir, San Bernardino
Inland	Meridian, Sutter	Desert	
Inland	Merle Collins Reservoir, Yuba	Inland	Mokelumne Hill, Calaveras
Desert	Mesa Grande, San Diego	Inland	Mokelumne River, San Joaquin
Desert	Mesaville, Riverside	Inland	Monmouth, Fresno
Desert	Mesquite Lake, San Bernardino	Mountain	Mono County
		Mountain	Mono Hot Springs, Fresno

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
Mountain	Mono Lake, Mono	Mountain	Mount Pinchot, Fresno
Mountain	Monolith, Kern	Mountain	Mount Pinos, Ventura
South Coast	Monrovia, Los Angeles	North Coast	Mount Saint Helena, Napa/Sonoma
Inland	Monson, Tulare	Mountain	Mount San Antonio, Los Angeles/San Bernardino
North Coast	Monta Vista, Santa Clara	Mountain	Mount San Jacinto, Riverside
Mountain	Montague, Siskiyou	Mountain	Mount Shasta, Siskiyou
South Coast	Montalvo, Ventura	Desert	Mount Signal, Imperial
North Coast	Montara, San Mateo	Mountain	Mount Vida, Modoc
Inland	Montclair, San Bernardino	Mountain	Mount Whitney, Inyo/Tulare
South Coast	Monte Nido, Los Angeles	Mountain	Mount Wilson, Los Angeles
North Coast	Monte Rio, Sonoma	Mountain	Mount Center, Riverside
North Coast	Monte Sereno, Santa Clara	Inland	Mountain Gate, Shasta
South Coast	Montebello, Los Angeles	Mountain	Mountain Meadows Reservoir, Lassen
South Coast	Montecito, Santa Barbara	Desert	Mountain Pass, San Bernardino
North Coast	Monterey, Monterey	Inland	Mountain Ranch, Calaveras
North Coast	Monterey Bay, Monterey/Santa Cruz	Desert	Mountain Spring, Imperial
North Coast	Monterey County	North Coast	Mountain View, Santa Clara
South Coast	Monterey Park, Los Angeles	Mountain	Mugginsville, Siskiyou
Inland	Montezume, Solano	Inland	Murphys, Calaveras
Inland	Montezuma Slough, Solano	Inland	Murrieta, Riverside
Mountain	Montgomery Creek, Shasta	Inland	Muscoy, San Bernardino
Inland	Montpelier, Stanislaus	North Coast	Myers Flat, Humboldt
South Coast	Montrose, Los Angeles	<b>N</b>	
Desert	Monument Peak, San Diego	North Coast	Nacimiento Reservoir, San Luis Obispo
Mountain	Moon Lake, Lassen	North Coast	Nacimiento River, San Luis Obispo
South Coast	Moorpark, Ventura	North Coast	Napa, Napa
Inland	Morada, San Joaquin	North Coast	Napa County
Inland	Moraga, Contra Costa	North Coast	Napa Junction, Napa
North Coast	Morales Canyon, San Luis Obispo	South Coast	Naples, Santa Barbara
Desert	Morena Village, San Diego	North Coast	Nashmead, Mendocino
Inland	Moreno Valley, Riverside	South Coast	National City, San Diego
North Coast	Morgan Hill, Santa Clara	North Coast	Navarro, Mendocino
Inland	Mormon Bar, Mariposa	Inland	Navelencia, Fresno
Inland	Mormon Slough, San Joaquin	Desert	Needles, San Bernardino
Desert	Morongo Valley, San Bernardino	Inland	Nelson, Butte
Inland	Morrison Slough, Sutter	Desert	Neuralia, Kern
North Coast	Morro Bay, San Luis Obispo	Inland	Nevada City, Nevada
North Coast	Moss Beach, San Mateo	Inland/Mountain	Nevada County
North Coast	Moss Landing, Monterey	North Coast	New Almaden, Santa Clara
Mountain	Mount Baldy, San Bernardino	Inland	New Auberry, Fresno
Inland	Mount Bullion, Mariposa	Mountain	New Bullards Bar Reservoir, Yuba
North Coast	Mount Carmel, Monterey	North Coast	New Cuyama, Santa Barbara
Mountain	Mount Darwin, Fresno/Inyo	Inland	New Don Pedro Reservoir, Tuolumne
Inland	Mount Diablo, Contra Costa	Inland	New Exchequer Dam, Mariposa
Mountain	Mount Eddy, Siskiyou/Trinity	Inland	New Hogan Reservoir, Calaveras
North Coast	Mount Eden, Alameda	Inland	New London, Tulare
North Coast	Mount Hamilton, Santa Clara	Mountain	New River, Trinity
Mountain	Mount Hebron, Siskyou	North Coast	Newark, Alameda
North Coast	Mount Hermon, Santa Clara	Desert	Newberry Springs, San Bernardino
Mountain	Mount Hoffman, Siskiyou	South Coast	Newbury Park, Ventura
North Coast	Mount Konocti, Lake	Inland	Newcastle, Placer
Desert	Mount Laguna, San Diego	Mountain	Newell, Modoc
North Coast	Mount Lassic, Humboldt	South Coast	Newhall, Los Angeles
Mountain	Mount Lyell, Madera/Mono	Inland	Newman, Stanislaus
Mountain	Mount Morgan, Inyo	South Coast	Newport Bay, Orange
Mountain	Mount Patterson, Mono	South Coast	Newport Beach, Orange

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
Inland	Newville, Glenn	Desert	Ocotillo Wells, San Diego
North Coast	Nicasio, Marin	Desert	Ogilby, Imperial
North Coast	Nice, Lake	Inland	Oildale, Kern
Desert	Nicholls Warm Springs, Riverside	Inland	Oilfields, Fresno
Desert	Nicolaus, Sutter	South Coast	Ojai, Ventura
Mountain	Nightingale, Riverside	South Coast	Olancha, Inyo
Desert	Niland, Imperial	Mountain	Olancha Peak, Inyo/Tulare
Inland	Nimbus, Sacramento	Desert	Old Dale, San Bernardino
Inland	Nippinnawasee, Madera	Inland	Old River, Kern
North Coast	Nipomo, San Luis Obispo	Inland	Old River, Contra Costa/San Joaquin
Desert	Nipton, San Bernardino	Mountain	Old Station, Shasta
Desert	Nopah Range, Inyo	North Coast	Olema, Marin
Inland	Norco, Riverside	Inland	Olinda, Shasta
Inland	Nord, Butte	Inland	Olivehurst, Yuba
Mountain	Norden, Nevada	Mountain	Omo Ranch, El Dorado
Mountain	North Bloomfield, Nevada	Inland	O'Neals, Madera
Inland	North Columbia, Nevada	Inland	O'Neill Forebay, Merced
Desert	North Edwards, Kern	Inland	Ono, Shasta
Mountain	North Fork, Madera	Inland	Ontario, San Bernardino
Inland	North Highlands, Sacramento	Mountain	Onyx, Kern
South Coast	North Hollywood, Los Angeles	North Coast	Opal Cliffs, Santa Cruz
Desert	North Palm Springs, Riverside	South Coast	Orange, Orange
Inland	North Sacramento, Sacramento	South Coast	Orange County
Inland	North San Juan, Nevada	Inland	Orange Cove, Fresno
Mountain	North Yolla Bolly Mountains, Tehama	Inland	Orangevale, Sacramento
Mountain	North Yuba River, Yuba	Inland	Orchard Peak, Kern
South Coast	Northridge, Los Angeles	North Coast	Orcutt, Santa Barbara
North Coast	Northspur, Mendocino	Desert	Ord Mountain, San Bernardino
Inland	Norton AFB, San Bernardino	Inland	Ordbend, Glenn
Mountain	Norvell, Lassen	Inland	Oregon House, Yuba
South Coast	Norwalk, Los Angeles	Mountain	Oregon Peak, Yuba
North Coast	Notleys Landing, Monterey	Inland	Orestimba Peak, Stanislaus
North Coast	Novato, Marin	North Coast	Orick, Humboldt
Mountain	Nubieber, Lassen	Inland	Orinda, Contra Costa
Inland	Nuevo, Riverside	Desert	Orita, Imperial
<b>O</b>		Inland	Orland, Glenn
Desert	Oak Grove, San Diego	North Coast	Orleans, Humboldt
South Coast	Oak Ridge, Ventura	Mountain	Oro Fino, Siskiyou
Inland	Oak Run, Shasta	Desert	Oro Grande, San Bernardino
South Coast	Oak View, Ventura	Desert	Oro Grande Wash, San Bernardino
Inland	Oakdale, Stanislaus	Inland	Oro Loma, Fresno
Inland	Oakhurst, Madera	Inland	Orosi, Tulare
North Coast	Oakland AP, Alameda	Inland	Oroville, Butte
Inland	Oakley, Contra Costa	South Coast	Otay, San Diego
North Coast	Oakville, Napa	Inland	Outingdale, El Dorado
Mountain	Oasis, Mono	Mountain	Owens Lake, Inyo
Desert	Oasis, Riverside	Mountain	Owens River, Inyo
Mountain	Obie, Shasta	Mountain	Owens Valley, Inyo
Mountain	O'Brien, Shasta	Mountain	Owenyo, Inyo
Mountain	Observation Peak, Lassen	Desert	Owishead Mountains, Inyo/San Bernardino
North Coast	Occidental, Sonoma	Inland	Oxalis, Fresno
South Coast	Ocean Beach, San Diego	Inland	Oxford, Solano
North Coast	Ocean View, Sonoma	South Coast	Oxnard, Ventura
North Coast	Oceano, San Luis Obispo	South Coast	Oxnard Beach, Ventura
South Coast	Oceanside, San Diego	<b>P</b>	
Desert	Ocotillo, Imperial	Inland	Pacheco, Contra Costa

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
North Coast	Pacheco Pass, Santa Clara	Inland	Penn Valley, Nevada
Mountain	Pacific, El Dorado	North Coast	Penngrove, Sonoma
South Coast	Pacific Beach, San Diego	Inland	Pennington, Sutter
North Coast	Pacific Grove, Monterey	Inland	Penryn, Placer
South Coast	Pacific Palisades, Los Angeles	Inland	Pentz, Butte
North Coast	Pacifica, San Mateo	North Coast	Pepperwood, Humboldt
Mountain	Pacoima Canyon, Los Angeles	Mountain	Perez, Modoc
Desert	Pahrump Valley, Inyo	Inland	Perris, Riverside
North Coast	Paicines, San Benito	North Coast	Pescadero, San Mateo
Mountain	Paiute Canyon, Inyo	North Coast	Petaluma, Sonoma
Inland	Pala, San Diego	North Coast	Petaluma River, Marin/Sonoma
Desert	Palen Lake, Riverside	Inland	Peters, San Joaquin
Desert	Palen Mountains, Riverside	North Coast	Petrolia, Humboldt
Inland	Palermo, Butte	Desert	Phelan, San Bernardino
Desert	Palm Canyon, Riverside	North Coast	Phillipsville, Humboldt
South Coast	Palm City, San Diego	North Coast	Philo, Mendocino
Desert	Palm Desert, Riverside	Desert	Picacho, Imperial
Desert	Palm Springs, Riverside	Desert	Picacho Wash, Imperial
Desert	Palm Wash, Imperial	South Coast	Pico Rivera, Los Angeles
Desert	Palm Wells, San Bernardino	North Coast	Piedmont, Alameda
Desert	Palmdale AP, Los Angeles	Inland	Piedra PO, Fresno
North Coast	Palo Alto, Santa Clara	Mountain	Pierce, Siskiyou
Inland	Palo Cedro, Shasta	North Coast	Piercy, Mendocino
Desert	Palo Verde, Imperial	North Coast	Pieta, Mendocino
Desert	Palo Verde Valley, Riverside	North Coast	Pigeon Point, San Mateo
Inland	Paloma, Calaveras	North Coast	Pillar Point, San Mateo
Desert	Palomar Mountain, San Diego	Inland	Pilot Hill, El Dorado
South Coast	Palos Verdes Estates, Los Angeles	Mountain	Pilot Peak, Mariposa/Tuolumne
Mountain	Panamint, Inyo	Inland	Pilot Peak, Nevada
Mountain	Panamint Range, Inyo	Mountain	Pilot Peak, Plumas
Desert	Panamint Springs, Inyo	Inland	Pine Canyon, Fresno
Desert	Panamint Valley, Inyo	North Coast	Pine Canyon, Monterey
North Coast	Panoche, San Benito	North Coast	Pine Canyon, San Luis Obispo
Inland	Paradise, Butte	North Coast	Pine Canyon, Santa Barbara
North Coast	Paraiso Springs, Monterey	Mountain	Pine Flat, Tulare
South Coast	Paramount, Los Angeles	Inland	Pine Grove, Amador
Inland	Pardee Reservoir, Amador/Calaveras	North Coast	Pine Mountain, San Luis Obispo
Desert	Parker Dam, San Bernardino	Mountain	Pine Mountain, Ventura
North Coast	Parkfield, Monterey	Mountain	Pine Ridge, Fresno
Inland	Parlier, Fresno	Desert	Pine Valley, San Diego
South Coast	Pasadena, Los Angeles	Mountain	Pinecrest, Tuolumne
Inland	Paskenta, Tehama	Inland	Pinedale, Fresno
North Coast	Paso Robles AP, San Luis Obispo	Mountain	Pinehurst, Fresno
Mountain	Patrick Creek, Del Norte	Desert	Pinkham Wash, Riverside
North Coast	Patricks Point, Humboldt	Desert	Pinnacles NM, San Bernardino
Inland	Patterson, Stanislaus	North Coast	Pinole, Contra Costa
Inland	Paulsell, Stanislaus	Desert	Pinon Hills, San Bernardino
Inland	Pauma Valley, San Diego	Desert	Pinto Mountains, Riverside
Mountain	Paxton, Plumas	Desert	Pinto Wash, Imperial
North Coast	Paynes Creek, Tehama	Desert	Pinto Wash, Riverside
Mountain	Peanut, Trinity	Mountain	Pioneer, Amador
Desert	Pearblossom, Los Angeles	Desert	Pioneer Point, San Bernardino
Desert	Pearland, Los Angeles	Desert	Pioneertown, San Bernardino
North Coast	Pebble Beach, Monterey	Desert	Pipes Wash, San Bernardino
Inland	Pedley, Riverside	South Coast	Piru, Ventura
South Coast	Pendleton M.C.B., San Diego	North Coast	Pismo Beach, San Luis Obispo

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
Mountain	Pit River (North Fork), Modoc	North Coast	Portola Valley, San Mateo
Mountain	Pit River (South Fork), Modoc	Inland	Posey, Tulare
Mountain	Pit River (town), Lassen	North Coast	Posts, Monterey
Inland	Pittsburg, Contra Costa	Desert	Potrero, San Diego
Mountain	Pittville, Shasta	North Coast	Potter Valley, Mendocino
Desert	Piute Valley, San Bernardino	Inland	Poway Valley, San Diego
Desert	Piute Wash, San Bernardino	North Coast	Powell Canyon, Monterey
Inland	Pixley, Tulare	North Coast	Pozo, San Luis Obispo
South Coast	Placentia, Orange	Inland	Prado Flood Control Basin, Riverside/San Bernardino
Inland/Mountain	Placer County	Inland	Prather, Fresno
Inland	Placerville, El Dorado	North Coast	Presidio of San Francisco, San Francisco
Inland	Plainsburg, Merced	North Coast	Preston Peak, Siskiyou
Inland	Plainview, Tulare	Mountain	Priest Valley, Monterey
Inland	Planada, Merced	North Coast	Princeton, Colusa
North Coast	Plantation, Sonoma	Inland	Proberta, Tehama
Mountain	Plasse, Amador	Inland	Project City, Shasta
Desert	Plaster City, Imperial	Inland	Providence Mountains, San Bernardino
Inland	Platina, Shasta	Desert	Prunedale, Monterey
Mountain	Pleasant Grove, Inyo	North Coast	Pulga, Butte
Inland	Pleasant Hill, Sutter	Mountain	Purdy, Sierra
Inland	Pleasant Hill, Contra Costa	Mountain	Purisma Hills, Santa Barbara
Inland	Pleasanton, Alameda	North Coast	Putah South Canal, Solano
Mountain	Plumas, Lassen	Inland	Pyramid Lake, Los Angeles
Mountain	Plumas County	Mountain	
Inland	Plymouth, Amador	<b>Q</b>	
North Coast	Point Arena, Mendocino	Inland	Quail Valley, Riverside
North Coast	Point Arguello, Santa Barbara	Desert	Quartz Hill, Los Angeles
North Coast	Point Bonita, Marin	Desert	Quartz Peak, Imperial
North Coast	Point Buchon, San Luis Obispo	Mountain	Quatal Canyon, Ventura
South Coast	Point Conception, Santa Barbara	Inland	Quedow Mountain, Tulare
North Coast	Point Delgada, Humboldt	Mountain	Quincy, Plumas
South Coast	Point Dume, Los Angeles	<b>R</b>	
South Coast	Point Fermin, Los Angeles	Inland	Racherby, Yuba
South Coast	Point La Jolla, San Diego	Inland	Rag Gulch, Kern
North Coast	Point Lobos, Monterey	Inland	Rail Road Flat, Calaveras
South Coast	Point Loma, San Diego	Inland	Railroad Canyon Reservoir, Riverside
South Coast	Point Mugu, Ventura	Inland	Rainbow, San Diego
South Coast	Point Mugu Naval Missile Center, Ventura	Inland	Raisin City, Fresno
North Coast	Point Piedras Blanca, San Luis Obispo	Mountain	Raker & Thomas Reservoir, Modoc
Inland	Point Pleasant, Sacramento	Inland	Ramona, San Diego
North Coast	Point Reyes, Marin	North Coast	Ranch, Mendocino
North Coast	Point Reyes Station, Marin	Desert	Ranchita, San Diego
North Coast	Point Saint George, Del Norte	Inland	Rancho Cordova, Sacramento
North Coast	Point Sal, Santa Barbara	Inland	Rancho Cucamonga, San Bernardino
North Coast	Point Sur, Monterey	Desert	Rancho Mirage, Riverside
Mountain	Pollock Pines, El Dorado	South Coast	Rancho Palos Verdes, Los Angeles
South Coast	Pomona, Los Angeles	South Coast	Rancho Santa Fe, San Diego
Inland	Pond, Kern	South Coast	Rancho Santa Margarita, Orange
Mountain	Pondosa, Siskiyou	Desert	Randsburg, Kern
North Coast	Pope Valley, Napa	Mountain	Ravendale, Lassen
Inland	Poplar, Tulare	Inland	Raymond, Madera
Desert	Porcupine Wash, Riverside	Inland	Red Bank, Tehama
Inland	Port Chicago, Contra Costa	Inland	Red Bluff, Tehama
South Coast	Port Hueneme, Ventura	Mountain	Red Mountain, Del Norte
Inland	Porterville, Tulare	Desert	Red Mountain, San Bernardino
Mountain	Portola, Plumas	Inland	Red Top, Madera
		Mountain	Red Wall Canyon, Inyo

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
North Coast	Redcrest, Humboldt	Angeles	
Inland	Redding, Shasta	Inland	Romoland, Riverside
Inland	Redlands, San Bernardino	Desert	Rosamond, Kern
Desert	Redman, Los Angeles	Desert	Rosamond Lake, Kern/Los Angeles
South Coast	Redondo Beach, Los Angeles	South Coast	Rosemead, Los Angeles
North Coast	Redway, Humboldt	Inland	Roseville, Placer
North Coast	Redwood City, San Mateo	Inland	Rosewood, Tehama
North Coast	Redwood Estates, Santa Clara	North Coast	Ross, Marin
North Coast	Redwood Valley, Mendocino	South Coast	Rossmoor, Orange
Inland	Reedley, Fresno	Inland	Rough and Ready, Nevada
North Coast	Reliz Canyon, Monterey	Mountain	Round Mountain, Shasta
Mountain	Renegade Canyon, Inyo	Mountain	Rovana, Inyo
North Coast	Requa, Del Norte	South Coast	Rowland Heights, Los Angeles
Inland	Rescue, El Dorado	Mountain	Rubicon River, El Dorado/Placer
South Coast	Reseda, Los Angeles	Inland	Rubidoux, Riverside
North Coast	Reynolds, Mendocino	Inland	Rumsey, Yolo
Desert	Rhodes Wash, Inyo	Mountain	Running Springs, San Bernardino
Inland	Rialto, San Bernardino	Mountain	Russian Peak, Siskiyou
Desert	Rice, San Bernardino	Mountain	Ruth, Trinity
Desert	Rice Valley, Riverside	North Coast	Rutherford, Napa
Inland	Richardson Springs, Butte	Desert	Ryan, Inyo
Inland	Richfield, Tehama	Inland	Ryde, Sacramento
Inland	Richgrove, Tulare	<b>S</b>	
North Coast	Richmond, Contra Costa	Inland	Sacramento AP, Sacramento
Inland	Richvale, Butte	Inland	Sacramento Army Depot, Sacramento
North Coast	Ridge, Mendocino	Inland	Sacramento County
Desert	Ridgecrest, Kern	Mountain	Saddle Mountain, El Dorado
Desert	Riggs Wash, San Bernardino	Inland	Sage, Riverside
North Coast	Rio Dell, Humboldt	Mountain	Sage Hen, Lassen
Inland	Rio Linda, Sacramento	Mountain	Saint Bernard, Tehama
North Coast	Rio Nido, Sonoma	North Coast	Saint Helena, Napa
Inland	Rio Oso, Sutter	Inland	Saint Johns River, Tulare
Inland	Rio Vista, Solano	Inland	Saint Mary's College, Contra Costa
Desert	Ripley, Riverside	Inland	Salida, Stanislaus
Inland	Ripon, San Joaquin	North Coast	Salinas, Monterey
Inland	Ripperdan, Madera	Mountain	Saline Valley, Inyo
Inland	River Pines, Amador	Mountain	Salmon Mountain, Humboldt/Siskiyou
Mountain	River Springs Lakes, Mono	Mountain	Salmon River, Siskiyou
Inland	Riverbank, Stanislaus	Mountain	Salmon River (East Fork), Siskiyou
Inland	Riverbank Army Depot, Stanislaus	Mountain	Salmon River (North Fork), Siskiyou
Inland	Riverdale, Fresno	Mountain	Salmon River (South Fork), Siskiyou
Inland	Riverside, Riverside	Mountain	Salt Lake, Inyo
Inland/Desert/Mountain	Riverside County	North Coast	Salt River, Humboldt
Mountain	Roaring River, Fresno	Mountain	Salt Springs Reservoir, Amador/Calaveras
Inland	Robbins, Sutter	Inland	Salt Springs Valley Reservoir, Calaveras
Inland	Robla, Sacramento	Desert	Saltdale, Kern
Inland	Rocklin, Placer	Desert	Saltmarsh, San Bernardino
North Coast	Rockport, Mendocino	Desert	Salton City, Imperial
Inland	Rockville, Solano	Desert	Salton Sea, Imperial/Riverside
North Coast	Rodeo, Contra Costa	Desert	Saltus, San Bernardino
Desert	Rogers Lake, Kern	Mountain	Salyer, Trinity
North Coast	Rohnert Park, Sonoma	North Coast	Samoa, Humboldt
North Coast	Rohnerville, Humboldt	Inland	San Andreas, Calaveras
Inland	Rolinda, Fresno	North Coast	San Andreas Lake, San Mateo
South Coast	Rolling Hills, Los Angeles	North Coast	San Anselmo, Marin
South Coast	Rolling Hills Estates, Los	Mountain	San Antonio Canyon, Los Angeles

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
North Coast	San Antonio Mission, Monterey	North Coast	San Luis Obispo, San Luis Obispo
Inland	San Antonio Reservoir, Alameda	North Coast	San Luis Obispo Bay, San Luis Obispo
North Coast	San Antonio Reservoir, Monterey	North Coast	San Luis Obispo County
North Coast	San Antonio River, Monterey	South Coast	San Luis Rey, San Diego
North Coast	San Antonio River (North Fork), Monterey	Desert	San Luis Rey River (West Fork), San Diego
North Coast	San Ardo, Monterey	Inland	San Marcos, San Diego
North Coast	San Benito County	South Coast	San Marino, Los Angeles
North Coast	San Benito, San Benito	North Coast	San Martin, Santa Clara
North Coast	San Benito Mountain, San Benito	North Coast	San Mateo, San Mateo
North Coast	San Benito River, San Benito	Inland	San Mateo Canyon, San Diego
Inland	San Bernardino, San Bernardino	North Coast	San Mateo County
Inland/Desert/Mountain	San Bernardino County	North Coast	San Miguel, San Luis Obispo
Mountain	San Bernardino Mountains, San Bernardino	South Coast	San Miguel Island, Santa Barbara
North Coast	San Bruno, San Mateo	South Coast	San Nicholas Island, Ventura
South Coast	San Buenaventura, Ventura	South Coast	San Onofre, San Diego
North Coast	San Carlos, San Mateo	Inland	San Onofre Canyon, San Diego
South Coast	San Clemente, Orange	North Coast	San Pablo, Contra Costa
South Coast	San Clemente Island, Los Angeles	Inland	San Pasqual, San Diego
South Coast	San Diego, San Diego	South Coast	San Pedro, Los Angeles
South Coast	San Diego Bay, San Diego	South Coast	San Pedro Bay, Los Angeles
South Coast/Inland/Desert	San Diego County	North Coast	San Quentin, Marin
South Coast	San Diego Naval Hospital, San Diego	North Coast	San Rafael, Marin
South Coast	San Diego Naval Station, San Diego	North Coast	San Rafael Mountain, Santa Barbara
South Coast	San Dimas, Los Angeles	Inland	San Ramon, Contra Costa
Desert	San Felipe, San Diego	North Coast	San Simeon, San Luis Obispo
North Coast	San Felipe, Santa Clara	Inland	San Timoteo Canyon, Riverside
South Coast	San Fernando, Los Angeles	Inland	San Vicente Reservoir, San Diego
South Coast	San Fernando Valley, Los Angeles	South Coast	San Ysidro, San Diego
North Coast	San Francisco, San Francisco	Inland	San Ysidro Mountains, San Diego
North Coast	San Francisco Bay, San Francisco	North Coast	Sand City, Monterey
North Coast	San Francisco County	Desert	Sand Hills, Imperial
South Coast	San Gabriel, Los Angeles	Mountain	Sandberg, Los Angeles
Mountain	San Gabriel Mountains, Los Angeles	Desert	Sandia, Imperial
Mountain	San Gabriel River (West Fork), Los Angeles	Desert	Sands, San Bernardino
Mountain	San Geronio Mountain, San Bernardino	North Coast	Sanel Mountain, Mendocino
Desert	San Geronio Pass, Riverside	Inland	Sanger, Fresno
Desert	San Geronio River, Riverside	North Coast	Sanitarium Napa
North Coast	San Gregorio, San Mateo	South Coast	Santa Ana, Orange
Inland	San Jacinto, Riverside	South Coast	Santa Barbara, Santa Barbara
Desert	San Jacinto Mountains, Riverside	North Coast/South Coast	Santa Barbara County
Inland	San Jacinto River, Riverside	South Coast	Santa Barbara Island, Santa Barbara
Inland	San Joaquin, Fresno	South Coast	Santa Catalina Island, Los Angeles
Inland	San Joaquin County	North Coast	Santa Clara, Santa Clara
Mountain	San Joaquin River (East Fork), Madera	North Coast	Santa Clara County
Mountain	San Joaquin River (Middle Fork), Madera	South Coast	Santa Clara River, Ventura
Mountain	San Joaquin River (North Fork), Madera	North Coast	Santa Clara Valley, Santa Clara
Mountain	San Joaquin River (South Fork), Madera	South Coast	Santa Clarita, Los Angeles
Mountain	San Joaquin River (West Fork), Madera	North Coast	Santa Cruz, Santa Cruz
North Coast	San Jose, Santa Clara	North Coast	Santa Cruz County
North Coast	San Juan Bautista, San Benito	South Coast	Santa Cruz Island, Santa Barbara
South Coast	San Juan Capistrano, Orange	North Coast	Santa Cruz Mountains, Santa Cruz
North Coast	San Leandro, Alameda	South Coast	Santa Fe Springs, Los Angeles
North Coast	San Lorenzo, Alameda	North Coast	Santa Margarita, San Luis Obispo
North Coast	San Lorenzo River, Santa Cruz	North Coast	Santa Margarita Lake, San Luis Obispo
North Coast	San Lucas, Monterey	North Coast	Santa Maria, Santa Barbara
Inland	San Luis Holding Reservoir, Merced	North Coast	Santa Maria River, San Luis Obispo/Santa Barbara

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
North Coast	Santa Maria Valley, Santa Barbara	Inland	Shafter, Kern
South Coast	Santa Monica, Los Angeles	North Coast	Shandon, San Luis Obispo
South Coast	Santa Monica Bay, Los Angeles	Inland	Sharpe Army Depot, San Joaquin
South Coast	Santa Monica Mountains, Los Angeles	Inland	Shasta, Shasta
South Coast	Santa Paula, Ventura	Inland	Shasta Bally, Shasta
Inland	Santa Rita Park, Merced	Inland/Mountain	Shasta County
North Coast	Santa Rosa, Sonoma	Mountain	Shasta Lake, Shasta
South Coast	Santa Rosa Islands, Santa Barbara	Mountain	Shasta River, Siskiyou
Desert	Santa Rosa Mountains, Riverside	Mountain	Shasta Springs, Siskiyou
South Coast	Santa Susana, Ventura	Mountain	Shasta Valley, Siskiyou
North Coast	Santa Venetia, Marin	Mountain	Shaver Lake, Fresno
North Coast	Santa Ynez, Santa Barbara	North Coast	Shedd Canyon, San Luis Obispo
North Coast	Santa Ynez Mountains, Santa Barbara	Desert	Sheep Canyon, Inyo
North Coast	Santa Ynez River, Santa Barbara	Mountain	Sheep Mountain, Siskiyou
Desert	Santa Ysabel, San Diego	Inland	Sheep Ranch, Calaveras
Inland	Santee, San Diego	Inland	Sheldon, Sacramento
South Coast	Santiago Reservoir, Orange	North Coast	Shelter Cove, Humboldt
North Coast	Saratoga, Santa Clara	Inland	Sheridan, Placer
Mountain	Sardine Peak, Sierra	South Coast	Sherman Oaks, Los Angeles
North Coast	Sargent, Santa Clara	Mountain	Sherman Peak, Tulare
North Coast	Sargent Canyon, Monterey	Inland	Shingle Springs, El Dorado
South Coast	Saticoy, Ventura	Mountain	Shingletown, Shasta
Mountain	Sattley, Sierra	North Coast	Shively, Humboldt
South Coast	Saugus, Los Angeles	Desert	Shoshone, Inyo
North Coast	Sausalito, Marin	Desert	Sidewinder Mountain, San Bernardino
Mountain	Sawtooth Peak, Inyo	Mountain	Sierra Army Depot, Lassen
Mountain	Sawyers Bar, Siskiyou	Mountain	Sierra Buttes, Sierra
Mountain	Scarface, Modoc	Mountain	Sierra City, Sierra
Mountain	Scheelite, Inyo	Mountain	Sierra County
North Coast	Schellville, Sonoma	South Coast	Sierra Madre, Los Angeles
North Coast	Scotia, Humboldt	Mountain	Sierra Nevada, Madera
Mountain	Scott Bar, Siskiyou	Mountain	Sierra Valley, Plumas/Sierra
Mountain	Scott Bar Mountains, Siskiyou	Mountain	Sierraville, Sierra
Mountain	Scott Mountains, Trinity	South Coast	Signal Hill, Los Angeles
Mountain	Scott River, Siskiyou	Mountain	Silver City, Tulare
Mountain	Scott River (East Fork), Siskiyou	Inland	Silver Creek, Fresno
Mountain	Scotts, Lassen	Mountain	Silver Lake, Amador
North Coast	Scotts Valley, Santa Cruz	Desert	Silver Lake, San Bernardino
Mountain	Scottys Castle, Inyo	South Coast	Silverado, Orange
South Coast	Sea Cliff, Ventura	Mountain	Silverwood Lake, San Bernardino
South Coast	Seal Beach, Orange	South Coast	Simi Valley, Ventura
Desert	Searles, Kern	North Coast	Simmler, Simmler
Desert	Searles Lake, San Bernardino	Mountain	Siskiyou County
North Coast	Seaside, Monterey	Mountain	Siskiyou Mountains, Del Norte/Siskiyou
North Coast	Sebastopol, Sonoma	North Coast	Sisquoc, Santa Barbara
Desert	Seeley, Imperial	North Coast	Sisquoc River, Santa Barbara
Mountain	Seiad Valley, Siskiyou	Inland	Sites, Colusa
Inland	Selma, Fresno	North Coast	Skaggs Springs, Sonoma
Desert	Senator Wash, Imperial	Mountain	Skedaddle Mountains, Lassen
Mountain	Seneca, Plumas	Mountain	Skidoo, Inyo
South Coast	Sepulveda, Los Angeles	Desert	Slate Range, Inyo/San Bernardino
South Coast	Sepulveda Dam, Los Angeles	South Coast	Sleepy Valley, Los Angeles
North Coast	Sequoia, Humboldt	Mountain	Sloat, Plumas
South Coast	Sespe, Ventura	Inland	Sloughhouse, Sacramento
Mountain	Seven Oaks, San Bernardino	Inland	Smartville, Yuba
Desert	Shadow Valley, San Bernardino	Mountain	Smith River (Middle Fork), Del Norte

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
Mountain	Smith River (North Fork), Del Norte	Inland	Standard, Tuolumne
Mountain	Smith River (South Fork), Del Norte	Mountain	Standish, Lassen
North Coast	Smith River, Del Norte	Mountain	Stanislaus, Calaveras
Inland	Smithflat, El Dorado	Inland	Stanislaus County
Desert	Smoke Tree Wash, Riverside	Mountain	Stanislaus River (Middle Fork), Tuolumne
Inland	Snake River, Sutter	South Coast	Stanton, Orange
Inland	Snelling, Merced	Inland	Stent, Tuolumne
Mountain	Snowden, Siskiyou	Inland	Stevens, Kern
Desert	Soda Lake, San Bernardino	Inland	Stevinson, Merced
North Coast	Soda Lake, San Luis Obispo	North Coast	Stewarts Point, Sonoma
Desert	Soda Mountains, San Bernardino	North Coast	Stinson Beach, Marin
Mountain	Soda Springs, Nevada	Mountain	Stirling City, Butte
North Coast	Soda Springs, Sonoma	Inland	Stockton, San Joaquin
South Coast	Solana Beach, San Diego	Inland	Stony Gorge Reservoir, Glenn
North Coast/Inland	Solano County	Inland	Stonyford, Colusa
North Coast	Soledad, Monterey	Mountain	Storrie, Plumas
South Coast	Solemint, Los Angeles	Desert	Stovepipe Wells, Inyo
South Coast	Solromar, Ventura	Inland	Stratford, Kings
North Coast	Solvang, Santa Barbara	Inland	Strathmore, Tulare
Inland	Somerset, El Dorado	Mountain	Strawberry, Tuolumne
Mountain	Somes Bar, Siskiyou	Mountain	Strawberry Valley, Yuba
South Coast	Somis, Ventura	Inland	Suisun Bay, Contra Costa/Solano
North Coast	Sonoma, Sonoma	Inland	Suisun City, Solano
North Coast	Sonoma County	South Coast	Sulphur Springs, Ventura
North Coast	Sonoma Mountain, Sonoma	Inland	Sultana, Tulare
Inland	Sonora, Tuolumne	South Coast	Summerland, Santa Barbara
Mountain	Sonora Pass, Mono/Tuolumne	Inland	Summit City, Shasta
North Coast	Soquel, Santa Cruz	Inland	Sun City, Riverside
Inland	Soulsbyville, Tuolumne	South Coast	Sun Valley, Los Angeles
Mountain	Sourdough Spring, Inyo	Inland	Suncrest, San Diego
Inland	South Dos Palos, Merced	South Coast	Sunland, Los Angeles
South Coast	South El Monte, Los Angeles	Inland	Sunnymead, Riverside
Mountain	South Entry Yosemite, Tuolumne	North Coast	Sunnyvale, Santa Clara
North Coast	South Fork, Humboldt	North Coast	Sunnyvale Air Force Station, Santa Clara
South Coast	South Gate, Los Angeles	Inland	Sunol, Alameda
South Coast	South Laguna, Orange	South Coast	Sunset Beach, Orange
Mountain	South Lake Tahoe, El Dorado	Desert	Superior Lake, San Bernardino
South Coast	South Pasadena, Los Angeles	Desert	Superstition Mountain, Imperial
North Coast	South San Francisco, San Mateo	North Coast	Surf, Santa Barbara
Inland	South Turlock, Stanislaus	Inland	Surfside, Orange
Mountain	South Yolla Bolly Mountains, Tehama	Mountain	Surprise Valley, Modoc
South Coast	South Whittier, Los Angeles	Mountain	Susan River, Lassen
Desert	Spangler, San Bernardino	Mountain	Susanville, Lassen
Mountain	Spanish Mountain, Fresno	Inland	Sutter, Sutter
Mountain	Spanish Spring, Inyo	Inland	Sutter Buttes, Sutter
North Coast	Spence, Monterey	Inland	Sutter Bypass, Sutter
North Coast	Spreckels, Monterey	Inland	Sutter County
Mountain	Spring Garden, Plumas	Inland	Sutter Creek, Amador
Inland	Spring Valley, San Diego	North Coast	Svedal, Santa Clara
Inland	Springville, Tulare	North Coast	Swanton, Santa Cruz
North Coast	Spyrock, Mendocino	Inland	Sweetwater Reservoir, San Diego
Inland	Squaw Valley, Fresno	Inland	Sycamore, Colusa
Mountain	Squaw Valley (Olympic Valley), Placer	South Coast	Sylmar, Los Angeles
Desert	Squirrel Inn, San Bernardino	<b>T</b>	
Mountain	Stacy, Lassen	Inland	Taft, Kern
Mountain	Stampede Reservoir, Sierra	Inland	Taft Heights, Kern

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
Inland	Tagus, Tulare	Mountain	Tioga Pass, Mono/Tuolumne
Mountain	Tahoe City, Placer	Mountain	Tionesta, Modoc
Mountain	Tahoe Pines, Placer	Inland	Tipton, Tulare
Mountain	Tahoe Vista, Placer	Mountain	Titus Canyon, Inyo
Mountain	Tahoma, Placer	Mountain	Tobias Peak, Tulare
South Coast	Tajiguas, Santa Barbara	Inland	Tollhouse, Fresno
North Coast	Talmage, Mendocino	North Coast	Tomales, Marin
Inland	Tambo, Yuba	North Coast	Tomales Bay, Marin
North Coast	Tassajara, Contra Costa	Mountain	Toms Place, Mono
North Coast	Tassajara Hot Springs, Monterey	South Coast	Topanga, Los Angeles
North Coast	Tatu, Mendocino	South Coast	Topanga Beach, Los Angeles
North Coast	Taylor Canyon, San Luis Obispo	South Coast	Topanga Canyon, Los Angeles
North Coast	Taylor Peak, Humboldt	Mountain	Topaz, Mono
Mountain	Taylorville, Plumas	Mountain	Topaz Lake, Mono
Desert	Teagle Wash, San Bernardino	South Coast	Torrance, Los Angeles
Mountain	Teakettle Junction, Inyo	South Coast	Trabuco Canyon, Orange
Desert	Tecate, San Diego	Inland	Tracy Carbona, San Joaquin
Mountain	Tecnor, Siskiyou	Inland	Tranquillity, Fresno
Desert	Tecopa, Inyo	Inland	Traver, Tulare
Mountain	Tehachapi, Kern	Inland	Travis A. F.B., Solano
Mountain	Tehachapi Mountains, Kern	North Coast	Treasure Island Naval Station, San Francisco
Mountain	Tehachapi Pass, Kern	Inland	Tremont, Solano
Inland	Tehama, Tehama	North Coast	Tres Pinos, San Benito
Inland/Mountain	Tehama County	Inland	Trigo, Madera
Mountain	Tejon Pass, Los Angeles	Mountain	Trimmer, Fresno
Mountain	Telescope Peak, Inyo	North Coast	Trinidad, Humboldt
Inland	Temecula, Riverside	North Coast	Trinidad Head, Humboldt
Inland	Temescal Wash, Riverside	Mountain	Trinity Alps, Trinity
South Coast	Temple City, Los Angeles	Mountain	Trinity Center, Trinity
North Coast	Templeton, San Luis Obispo	North	
Mountain	Tennant, Siskiyou	Coast/Inland/Mountain	Trinity County
North Coast	Tepusquet Canyon, Santa Barbara	Mountain	Trinity Dam, Trinity
North Coast	Tequspuet Peak, Santa Barbara	Mountain	Trinity Mountains, Shasta/Trinity
Inland	Terminous, San Joaquin	Mountain	Trinity River (East Fork), Trinity
Inland	Terminus Dam, Tulare	Desert	Trona, San Bernardino
Mountain	Termo, Lassen	Inland	Trowbridge, Sutter
Inland	Terra Bella, Tulare	Mountain	Troy, Placer
Desert	Thermal, Riverside	Mountain	Truckee, Nevada
Inland	Thermalito, Butte	Mountain	Truckee River, Nevada
Inland	Thermalito Afterbay, Butte	North Coast	Tucker Canyon, San Luis Obispo
Inland	Thermalito Forebay, Butte	Inland	Tudor, Sutter
Mountain	Thomas A. Edison Lake, Fresno	Mountain	Tujunga, Los Angeles
Mountain	Thomas Mountain, Riverside	Inland	Tulare, Tulare
North Coast	Thompson Canyon, Monterey	Inland/Mountain	Tulare County
Inland	Thornton, San Joaquin	Inland	Tulare Lake Bed, Kings
South Coast	Thousand Oaks, Ventura	Inland	Tule Canal, Yolo
Desert	Thousand Palms, Riverside	Mountain	Tule Lake Sump, Siskiyou
Desert	Three Points, Los Angeles	Mountain	Tule Mountain, Lassen
Inland	Three Rivers, Tulare	Inland	Tule River, Kings
Inland	Three Rocks, Fresno	Desert	Tule Wash, Imperial
North Coast	Tiburon, Marin	Mountain	Tulelake, Siskiyou
Inland	Tiger Creek PH, Butte	Inland	Tuolumne, Tuolumne
Desert	Tiefort Mountains, San Bernardino	Inland/Mountain	Tuolumne County
Desert	Tierra del Sol, San Diego	Mountain	Tuolumne Meadows, Tuolumne
South Coast	Tijuana River, San Diego	Mountain	Tuolumne River (North Fork), Tuolumne
Mountain	Tinemaha Reservoir, Inyo	Mountain	Tuolumne River (South Fork), Tuolumne
		Inland	Tupman, Kern

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
Inland	Turk, Fresno	<b>V</b>	
Inland	Turlock, Stanislaus	Inland	Vacaville, Solano
Inland	Turlock Lake, Stanislaus	Mountain	Vade, El Dorado
Inland	Turner, San Joaquin	South Coast	Val Verde Park, Los Angeles
Inland	Turntable Creek, Shasta	South Coast	Valencia, Los Angeles
Desert	Turtle Mountains, San Bernardino	South Coast	Valinda, Los Angeles
South Coast	Tustin, Orange	Inland	Valle Vista, Riverside
Inland	Tuttle, Merced	Inland	Vallecito, Calaveras
Inland	Tuttletown, Tuolumne	North Coast	Vallejo, Solano
Mountain	Twain, Plumas	Inland	Valley Center, San Diego
Inland	Twain Harte, Tuolumne	North Coast	Valley Ford, Sonoma
Desert	Twentynine Palms, San Bernardino	Inland	Valley Home, Stanislaus
Mountain	Twin Bridges, El Dorado	Inland	Valley Springs, Calaveras
Inland	Twin Cities, Sacramento	Desert	Valley Wells, Inyo
Mountain	Twin Lakes, Mono	Desert	Valyermo, Los Angeles
North Coast	Twin Lakes, Santa Cruz	South Coast	Van Nuys, Los Angeles
North Coast	Twitchell Reservoir, San Luis Obispo/Santa Barbara	North Coast	Vandenberg Air Force Base, Santa Barbara
North Coast	Two Rock, Sonoma	North Coast	Vandenburg Village, Santa Barbara
<b>U</b>		South Coast	Venice, Los Angeles
South Coast	UCLA, Los Angeles	North Coast	Ventupopa, Santa Barbara
North Coast	Ukiah, Mendocino	South Coast	Ventura, Ventura
North Coast	Union City, Alameda	South Coast/Mountain	Ventura County
Mountain	Union Valley Reservoir, El Dorado	South Coast	Verdugo Mountains
South Coast	U.S.M.C. Air Station El Toro/Santa Ana Orange	Mountain	Vermillion Valley Dam, Fresno
South Coast	U.S.M.C. Recruit Depot, San Diego, San Diego	Inland	Vernalis, San Joaquin
Desert	U.S.N. Air Field, El Centro, Imperial	South Coast	Vernon, Los Angeles
North Coast	U.S.N. Air Station, Alameda, Alameda	Inland	Verona, Sutter
South Coast	U.S.N. Air Station, Imperial Beach, San Diego	South Coast	View Park, Los Angeles
Inland	U.S.N. Air Station, Lemoore, Kings	Inland	Victor, San Joaquin
South Coast	U.S.N. Air Station, Los Alamitos, Orange	Desert	Victorville, San Bernardino
South Coast	U.S.N. Air Station, North Island, San Diego	Desert	Vidal, San Bernardino
Inland	U.S.N. Communication Station, Stockton, San Joaquin	Desert	Vidal Junction, San Bernardino
North Coast	U.S.N. Facility, Point Sur, Monterey	Desert	Vidal Valley, San Bernardino
North Coast	U.S.N. Facility, San Bruno, San Mateo	Desert	Vidal Wash, San Bernardino
South Coast	U.S.N. Facility, San Clement Is. Los Angeles	Mountain	Viewland, Lassen
South Coast	U.S.N. Facility, San Nicolas Is. Ventura	South Coast	Villa Park, Orange
North Coast	U.S.N. Facility, Sunnyvale, Santa Clara	Inland	Vina, Tehama
North Coast	U.S.N. Facility, Vallejo, Solano	Desert	Vinagre Wash, Imperial
South Coast	U.S.N. Reservation, Point Loma, San Diego	Desert	Vincent, Los Angeles
South Coast	U.S.N. Shipyard, Long Beach, Los Angeles	North Coast	Vine Hill, Contra Costa
North Coast	U.S.N. Supply Center, Oakland, Alameda	North Coast	Vineyard Canyon, Monterey
Inland	U.S.N. Weapons Station, Concord, Contra Costa	Mountain	Vinton, Plumas
South Coast	U.S.N. Weapons Station, Seal Beach, Orange	Mountain	Viola, Shasta
South Coast	U.S.N. Construction Battalion, Port Hueneme, Ventura	Inland	Visalia, Tulare
South Coast	U.S. Navy Training Center, San Diego	South Coast	Vista, San Diego
Desert	Unnamed Wash, Imperial	Inland	Volcano, Amador
Inland	Upland, San Bernardino	Mountain	Volcanoville, El Dorado
North Coast	Upper Lake, Lake	Inland	Volta, Merced
Mountain	Upper Lake, Modoc	Inland	Vorden, Sacramento
North Coast	Upper San Leandro Reservoir, Alameda	<b>W</b>	
Inland	Usona, Mariposa	North Coast	Waddington, Humboldt
		Mountain	Walker Pass, Kern
		Inland	Wallace, Calaveras
		South Coast	Walnut, Los Angeles
		Inland	Walnut Creek, Contra Costa
		Inland	Walnut Grove, Sacramento

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<b>Zone</b>	<b>Location:City, County</b>	<b>Zone</b>	<b>Location:City, County</b>
South Coast	Walnut Park, Los Angeles	Mountain	Willow Creek Camp, Inyo
Mountain	Warner Mountains, Modoc	Mountain	Willow Ranch, Modoc
Desert	Warner Springs, San Diego	Desert	Willow Springs, Kern
Inland	Warnersville, Stanislaus	Desert	Willow Wash, San Bernardino
Inland	Wasco, Kern	South Coast	Willowbrook, Los Angeles
Mountain	Washington, Nevada	Inland	Willows, Glenn
Inland	Waterford, Stanislaus	Inland	Wiseyville, Calaveras
Inland	Waterloo, San Joaquin	Desert	Wilsona Gardens, Los Angeles
Desert	Watson Wash, San Bernardino	Mountain	Wilsonia, Tulare
North Coast	Watsonville, Santa Cruz	Inland	Wilton, Sacramento
Mountain	Waucoba Mountain, Inyo	Inland	Winchester, Riverside
Mountain	Waucoba Wash, Inyo	North Coast	Windsor, Sonoma
Inland	Waukena, Tulare	Desert	Wingate Wash, Inyo
Mountain	Wawona, Mariposa	Desert	Winston Wash, San Bernardino
Mountain	Weaverville, Trinity	Desert	Winterhaven, Imperial
Mountain	Weed, Siskiyou	Inland	Winters, Yolo
Inland	Weed Patch, Kern	Inland	Winton, Merced
Inland	Weimar, Placer	Mountain	Wishin, Madera
North Coast	Weitchpec, Humboldt	Mountain	Wishin Reservoir, Fresno
Mountain	Weldon, Kern	Desert	Wister, Imperial
Mountain	Wendel, Lassen	Mountain	Wofford Heights, Kern
North Coast	Weott, Humboldt	North Coast	Woodacre, Marin
South Coast	West Carson, Los Angeles	Inland	Woodbridge, San Joaquin
South Coast	West Covina, Los Angeles	Inland	Woodcrest, Riverside
South Coast	West Hollywood, Los Angeles	Mountain	Woodfords, Alpine
Desert	West Mesa, Imperial	Inland	Woodlake, Tulare
Inland	West Modesto, Stanislaus	Inland	Woodland, Yolo
Inland	West Point, Calaveras	South Coast	Woodland Hills, Los Angeles
South Coast	West Puente Valley, Los Angeles	Mountain	Woodleaf, Yuba
Inland	West Sacramento, Yolo	North Coast	Woodman, Mendocino
Mountain	West Walker River, Mono	North Coast	Woodside, San Mateo
Desert	Westend, San Bernardino	Inland	Woodville, Tulare
Inland	Westhaven, Fresno	Inland	Woody, Kern
North Coast	Westhaven, Humboldt	Mountain	Wrightwood, San Bernardino
South Coast	Westlake Village	North Coast	Wunpost, Monterey
Inland	Westley, Stanislaus	Inland	Wyandotte, Butte
South Coast	Westminster, Orange	Desert	Wynola, San Diego
Desert	Westmorland, Imperial	Mountain	Wyntoon, Siskiyou
North Coast	Westport, Mendocino	<b>Y</b>	
Mountain	Westwood, Lassen	Desert	Yermo, San Bernardino
North Coast	Whale Rock Reservoir, San Luis Obispo	Inland	Yetttem, Tulare
Inland	Wheatland, Yuba	Inland	Yolo, Yolo
Inland	Wheeler Ridge, Kern	Inland	Yolo Bypass, Solano/Yolo
Mountain	Wheeler Springs, Ventura	Inland	Yolo County
Desert	Whipple Mountains, San Bernardino	South Coast	Yorba Linda, Orange
Inland	Whiskeytown, Shasta	North Coast	Yorkville, Mendocino
Inland	Whiskeytown Lake, Shasta	Mountain	Yosemite Valley, Mariposa
Mountain	White Horse, Modoc	Mountain	Yosemite Village, Mariposa
Mountain	White Mountain, Mono	North Coast	Yountville, Napa
South Coast	Whittier, Los Angeles	Mountain	Yreka, Siskiyou
Mountain	Wildrose RS, Inyo	Inland	Yuba City, Sutter
Mountain/Inland	Williams, Colusa	Inland/Mountain	Yuba County
North Coast	Williams Peak, Mendocino	Inland	Yucaipa, San Bernardino
North Coast	Willits, Mendocino	Mountain	Yucca Mountain, Tulare
South Coast	Willow Brook, Los Angeles	Desert	Yucca Valley, San Bernardino
North Coast	Willow Creek, Humboldt	Desert	Yuha Desert, Imperial

<b>Zone</b>	<b>Location:City, County</b>
<b>Z</b>	
Inland	Zamora, Yolo
North Coast	Zenia, Trinity
South Coast	Zuma Canyon, Los Angeles

# ***Appendix D***

## **Rapid Deployment Measure-Specific Policies and Procedures**

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### **D.1 Introduction**

This appendix specifies measure-specific policies and procedures applicable to energy efficiency measures offered on a pilot basis as part of the Rapid Deployment effort mandated by D. 01-05-033. These new LIEE measures include high efficiency window/wall air conditioners, high efficiency central air conditioners, high efficiency gas water heaters, high efficiency electric water heaters, programmable and setback thermostats, duct repair and sealing, whole house fans, and evaporative cooler maintenance. Installation Standards for these measures are available in the proposed 2002 Statewide LIEE Weatherization Installation Standards Manual.

### **D.2 High Efficiency Window/Wall Air Conditioner**

#### ***D.2.1 Nonfeasibility Criteria***

- A window/wall or central air conditioner is already present and operational, and is less than 10 years old
- Electric requirements cannot be met
- Dwelling unit has security bars on window
- A structurally sound mounting platform and/or suitable mounting location is not available
- The measure is refused by the customer

#### ***D.2.2 Other Policies and Procedures***

- Replacement unit must have a minimum EER of 10.7.<sup>1</sup>

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<sup>1</sup> This requirement is effective for PY2002. Under the policy of Rapid Deployment in PY2001, the highest EER available for the size in question should be installed, but under no circumstances should this EER be less than 10.0.

- Per Decision 001-05-033, "Air conditioners should be replaced only in climate areas not covered by the evaporative cooler program, or where temperatures regularly exceed 100 degrees during summer months." (pg. 28, OP 12)
- Replaced units must be demanufactured in compliance with all laws and regulations
- All units must be adequately supported and braced
- No participant may receive both a high efficiency window/wall air conditioner and a whole house fan
- Extension cords are permitted only if allowed by local code and are less than five (5) feet in length

### **D.3 High Efficiency Central Air Conditioners**

#### ***D.3.1 Nonfeasibility Criteria for Conventional Homes***

- A central air conditioner is already present and operational, and is less than 10 years old
- The existing system is a combined HVAC unit and the property is renter-occupied
- Electric service requirements cannot be met
- System air flow is inadequate
- A structurally sound and suitable mounting location is not available
- Ducts are damaged or deteriorated beyond repair
- The existing HVAC unit is a combined fuel unit and one of the fuels is not provided by one of the IOUs to which this Standardized P&P Manual applies
- The measure is refused by the customer

#### ***D.3.2 Nonfeasibility Criteria for Mobile Homes***

- A central air conditioner is already present and operational, and is less than 10 years old
- Electric service requirements cannot be met
- Depressurization by the forced air unit's return system adversely affects an open combustion appliance, and correction is not feasible
- Disconnected or damaged space heating ducts are present and cannot be repaired
- Abandonment of leaky belly-cavity return is required but not feasible
- System air flow is inadequate
- The measure is refused by the customer

### **D.3.3 Nonfeasibility Criteria for Installations Requiring Attic, Crawl Space, or Undercarriage Access**

- Crawl clearance in attic is less than 24” or clearance in crawl space/undercarriage is less than 18”
- Any of the following conditions are present in the crawl space area where access is required:
  - Hazardous insect or pest infestation
  - Excessive ground moisture (standing water or mud)
  - Sewage waste on the ground or other unsanitary conditions posing a health and safety hazard

### **D.3.4 Other Policies and Procedures**

- Replacement unit EER must be at least 10.3 for package (dual-pack) units, and 10.6 for split-system types <sup>2</sup>
- No participant may receive both a high efficiency central air conditioner and a whole house fan
- Per Decision 001-05-033, "Air conditioners should be replaced only in climate areas not covered by the evaporative cooler program, or where temperatures regularly exceed 100 degrees during summer months." (pg. 28, OP 12)
- Replaced units must be demanufactured in compliance with all laws and regulations
- Installer must have C-20 HVAC license

## **D.4 High Efficiency Gas Water Heater**

### **D.4.1 Nonfeasibility Criteria**

- The existing unit is less than 10 years old and is in good operating condition
- The unit is a central water heater serving more than one unit
- For a unit on a raised floor or in an attic, the structure cannot properly and safely support the installation
- For units installed within a confined location, there is inadequate access or clearance
- For units installed within a confined location, adequate combustion supply air cannot be provided
- No suitable mounting locations for earthquake straps available

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<sup>2</sup> This requirement is effective for PY2002. Under the policy of Rapid Deployment in PY2001, the highest EER available for the size in question should be installed, but under no circumstances should this EER be less than 10.0.

- Required protection against water leaks cannot be provided
- A whole-house fan is present, the existing water heater is in the attic, and a closed combustion unit can not be installed
- The T&P valve drain-line cannot be run to a drain or outside, if required by local code
- A safety hazard is present and cannot be repaired
- Refused by the customer

#### **D.4.2 Other Policies and Procedures**

- The replacement water heater must have an energy factor of 0.60 or greater
- A high efficiency gas water heater can replace only an existing gas water heater

### **D.5 High Efficiency Electric Water Heater**

#### **D.5.1 Nonfeasibility Criteria**

- The existing unit is less than 10 years old and is in good operating condition
- For a unit on a raised floor or in an attic, the structure cannot properly and safely support the installation
- For units installed within a confined location, there is inadequate access or clearance
- Proper electrical service/wiring is not available
- No suitable mounting locations for earthquake straps available
- Required protection against water leaks cannot be provided
- The T&P valve drain-line cannot be run to a drain or outside, if required by local code
- Refused by the customer

#### **D.5.2 Other Policies and Procedures**

- The replacement water heater must have an energy factor of 0.92 or greater
- A high efficiency electric water heater can replace only an existing electric water heater

### **D.6 Programmable and Setback Thermostats**

#### **D.6.1 Nonfeasibility Criteria**

- A programmable or setback thermostat is already present and operational

- The furnace utilizes a millivolt system
- Inadequate thermostat wiring
- Refused by the customer

**D.6.2 Other Policies and Procedures**

- A programmable or setback thermostat may be installed only when central air conditioning and/or one of the following types of heating systems is present: gas wall heaters, gas furnace, electric furnace, heat pump, electric resistance cable
- A programmable or setback thermostat may be installed only if:
  - the furnace is repaired or replaced; or
  - if there is no shut off on the existing unit and the home is in a CEC climate zone with over 2,000 heating degree-days (see Table E.1); or
  - if required by local code
- Prior to installation, contractors installing programmable thermostats shall explain the operation of these thermostats and provide the customer an opportunity to refuse the measure
- Thermostats may be moved to resolve short cycling problems in mobile homes

**Table E.1: Eligibility for Setback/Programmable Thermostats**

CEC Climate Zone	HDD (65°F)	Eligible	CEC Climate Zone	HDD (65°F)	Eligible
1 (Arcata)	4085	✓	9 (Pasadena)	1260	
2 (Santa Rosa)	2890	✓	10 (Riverside)	1637	
3 (Oakland)	2541	✓	11 (Red Bluff)	2656	✓
4 (Sunnyvale)	2414	✓	12 (Sacramento)	2649	✓
5 (Santa Maria)	2277	✓	13 (Fresno)	2228	✓
6 (Los Angeles)	1475		14 (China Lake)	3113	✓
7 (San Diego)	1344		15 (El Centro)	846	
8 (El Toro)	1317		16 (Mount Shasta)	5579	✓

## D.7 Duct Repair and Sealing

### D.7.1 General Nonfeasibility Criteria

- Duct leakage is below the starting threshold leakage, per the Duct Testing and Sealing form
- A natural gas appliance hazard exists, and repair is not feasible
- Duct system has been abandoned
- Duct system is damaged or deteriorated beyond repair
- A health or safety hazard, such as insect infestation, hazardous electrical wiring, or a structural hazard, is present which prevents safe access to the duct system
- Ducts or components are made of or insulated with asbestos, and work on duct system would cause asbestos to become unencapsulated or discharged into the air
- Access to the duct system does not meet minimum accessibility criteria
- Refused by the customer

### D.7.2 Nonfeasibility Criteria for Ducts in Crawl Space

- Crawl space provides less than 18” of clearance between the ground level and the floor joists
- Excessive ground moisture (standing water or mud)
- Sewage waste on ground or other unsanitary conditions posing health and safety hazards

### **D.7.3 Other Policies and Procedures**

- Duct testing must be conducted using a duct blaster
- Duct sealing and repair must lower leakage to no more than 15% of total system air flow
- If required by local code, uninsulated rigid ducts that are sealed/repared through the Program should also be insulated

## **D.8 Whole-House Fan**

### **D.8.1 Nonfeasibility Criteria**

- A whole-house fan is already present and operational
- No feasible location is available with sound structural framing and adequate clearances
- Inadequate access to attic
- Inadequate inlet or exhaust ventilation
- Substandard electrical service/wiring prevents installation of proper electrical connection/circuit
- Refused by the customer

### **D.8.2 Other Policies and Procedures**

- To be eligible for a whole-house fan, the dwelling unit must have functional refrigerated air conditioning
- No participant may receive both a whole-house fan and an air conditioner replacement
- Cutting of ceiling joists and/or truss chords is not allowed
- Sizing must be in accordance with the manufacturer's recommendations or the criteria in Table E.2

**Table E.2: Whole House Fan Sizing Criteria**

<b>HOUSE SIZE Floor Area (Sq. Ft.)<sup>1</sup></b>	<b>MINIMUM CFM* Fan Capacity (8' Ceilings)<sup>2</sup></b>
1,000	3,000
1,200	3,600
1,400	4,200
1,600	4,800
1,800	5,400
2,000	6,000
2,200	6,600
2,400	7,200

\*CFM @ 0.1" static pressure with ceiling shutter in place.

## **D.9 Evaporative Cooler Maintenance**

### **D.9.1 Nonfeasibility Criteria**

- The evaporative cooler is functioning properly and no maintenance is required
- Conditions exist that require the unit to be replaced, including:
  - inadequate and/or hazardous electrical connection
  - Excessive leaks
  - window/wall deterioration presenting an imminent hazard
  - deteriorated/unsafe platform
  - deteriorated cooler reservoir
  - unit is installed in a hazardous location (in an egress window; less than 3' from an open combustion appliance, combustion flue/vent termination, or plumbing vent termination; closer than 10' from or 3' below an exhaust fan termination or clothes dryer moisture exhaust termination; or less than 1' above grade or 7' from a gas meter.)
- Unit is not attached/supported properly and required corrections are beyond the scope of maintenance
- Refused by the customer

### **D.9.2 Other Policies and Procedures**

- Customer must have a functional refrigerated air conditioning unit
- In the event that the existing evaporative cooler is not operational, the unit will be replaced rather than maintained, provided the customer lives in a CEC climate zone where evaporative cooler installations are eligible for the LIEE Program

