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## Residential and Commercial Backup Generators

### Commercial Installations May Require Site Plan Design Review Modifications

A permit is required for all permanently installed electric generators.

All installations shall comply with the current California Fire, Building, Electrical, Mechanical, Plumbing, and City of Livermore Municipal Codes.

#### **Submittal Requirements:**

Submit through [Online Permitting](#).

- Select “TI – Tenant Improvement” for commercial generator or “Dwelling” for residential generator

#### **Residential Natural Gas Generators:**

- Site plan showing distance from property lines and doors or openable windows.
- Gas line diagram and calculations including size, length, BTUs and Gas shutoff.
- Electrical single line diagram including main panel, conductor size, transfer switch, disconnect, signage at main panel indicating alternate power source “Generator”.
- Provide manufacturer installation instruction and listing requirements.

#### **Commercial and Residential LP Gas and Fuel Generators:**

The following information must be submitted along with your permit application:

- Scaled plot plan showing the location of the equipment and setbacks from property line and existing structures.
- Landscape plan showing modification to existing parking and landscape if applicable
- Structural drawings and details for securing the equipment.
- Supporting documents:
  - Specifications (ICC Evaluation or other approved agency, UL Listing, Manufacturers installation instructions, etc.)
  - Structural calculations.
  - Special inspection forms completed and signed (If special inspection is required in the scope of the project).
  - Hazardous material inventory form (attached).
  - Plans must be stamped and signed.



## Hazardous Materials Class Summary Table

The following table must summarize the total amounts of all materials listed in the Hazardous Materials Product Inventory, and Hazardous Materials Mixture Inventory. Where a single product is classified in more than one hazard class, the quantities of the material must be totaled in all applicable hazard classes.

For assistance in preparing the hazard class summary, contact the City of Livermore Permit Center at (925) 960-4410 or Kim Colantuono of the Livermore/Pleasanton Fire Department at (925) 454-2362.

HAZARD CLASS	MAXIMUM ON-SITE AT ONE TIME	AMOUNT THAT TRIGGERS A CONDITIONAL USE PERMIT
Corrosive gases		200 cf
Corrosive liquids		1,000 gal
Corrosive solids		8,000 lbs
Explosives		Any amount
Flammable gases		2,000 cf
Flammable liquids		1,000 gal
Flammable solids		250 lbs
Highly toxic gases		Any amount
Highly toxic solids		20 lbs
Organic peroxide I		Any amount
Organic peroxide II		100 gal
Organic peroxide III		1,250 lbs
Oxidizer gases		10,000 cf
Oxidizer		2 450 gal/4,500 lbs
Oxidizer 3		20 gal/200 lbs
Oxidizer 4		Any amount
Pyrophorics		Any amount
Radioactives		Any amount
Reactive/unstables 2		100 gal/1,000 lbs
Reactive/unstables 3		10 gal/100 lbs
Reactive/unstables 4		Any amount
Toxic gases		Any amount
Toxic liquids or solids		5,000 gal/50,000 lbs
Water reactive 1		1,500 gal/15,000 lbs
Water reactive 2		1,000 gal/10,000 lbs
Water reactive 3		100 gal/1,000 lbs

**NOTE:** If the totals for the hazard classes in this table do not equal amount derived by adding the materials up in the inventory, attach an explanation.

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## Pre-classified Materials List

For your assistance, the following common products or materials have been pre-classified for their appropriate hazard class(es).

For further assistance in hazard classification, contact the City of Livermore Permit Center at (925) 960-4410 or Kim Colantuono of the Livermore/Pleasanton Fire Department at (925) 454-2362.

PRODUCT	HAZARD CLASS(ES)	CUP NEEDED
Acetylene	Flammable Gas	Possibly*
Ammonia Gas	Flammable Gas Corrosive Gas	Possibly*
Ammonium Hydroxide	Corrosive Liquid	Possibly*
Ammonium Nitrate	Oxidizer class 3 Unstable/Reactive class 2	
Antifreeze	Combustible Liquid	No
Argon	Inert Gas	No
Bleach (sodium hypochlorite)	Corrosive Liquid	Possibly*
Carbon Dioxide	Inert	No
Chlorine Gas	Toxic Gas Corrosive Gas Oxidizer Gas	Yes
Diesel	Combustible Liquid	No
Gasoline	Flammable Liquid	Possibly*
Helium	Inert Gas	No
Hydrochloric Acid (muriatic)	Corrosive Liquid	Possibly*
Kerosene	Combustible Liquid	No
Latex Paint	(none)	No
Motor Oil	Combustible Liquid	No
Nitrogen	Inert Gas	No
Oxygen	Oxidizer Gas	Possibly*
Perchlorethylene	Other Health Hazard	No
Propane	Flammable Gas	Possibly*
Safety Kleen Solvent	Combustible Liquid	No
Sodium Hydroxide	Corrosive Liquid Water reactive-class 1	Possibly*

\*Depends on the amount of material present

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**Livermore-Pleasanton Fire Department  
3560 Nevada St, Pleasanton, CA. 94588  
(925) 454-2362 Fax: (925) 454-2367**

**EMERGENCY CONTACT INFORMATION FOR:**

Business Name: \_\_\_\_\_ Address: \_\_\_\_\_

Mailing address (if different): \_\_\_\_\_ Home Occupation: Yes  No

Business Phone: \_\_\_\_\_ Nature of Business: \_\_\_\_\_

In emergency, one of the following will be contacted by the Fire or Police Department. Listed persons must be authorized to act as agents of the business, possess keys or applicable security code, and understand they may be subject to call on a 24-hours basis, seven days a week.

<b>CONTACT ORDER</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5 (BLDG OWNER)</b>
NAME					
ADDRESS					
CITY					
STATE/ZIP					
POSITION					
MAIN PHONE					
ALT. PHONE					
CELL PHONE					

Notes: \_\_\_\_\_

Please remit completed form within **10 days** to the address above. It is your responsibility to inform the fire department of any change in contact or personnel.

**FOR FIRE DEPARTMENT USE ONLY:**

Inspection Date: \_\_\_\_\_ Knox Box: Yes  No  Location: \_\_\_\_\_ Pre-plan: Yes  No  FPUC(CFIRS) \_\_\_\_\_

Permit Req: Yes  No  Type: \_\_\_\_\_ Caution Notes: \_\_\_\_\_

Inspector's Name: \_\_\_\_\_ Insp# \_\_\_\_\_ Division: \_\_\_\_\_ Station: \_\_\_\_\_