



COALINGA FIRE DEPARTMENT

GREG DUPUIS, FIRE CHIEF

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CITY OF COALINGA FIRE DEPARTMENT		
FIRE PREVENTION STANDARD		
STANDARD TITLE:	402.003 DIESEL FUEL SUPPLIES FOR EMERGENCY POWER GENERATORS WITH INTEGRAL TANKS	
STANDARD NUMBER: 402.003	EFFECTIVE DATE: 1 December 2021	REVISION DATE: 1 December 2021

PURPOSE

The purpose of this policy is to clarify the requirements for diesel generator sets (gensets) with protected or unprotected base tanks with a capacity of up to six hundred sixty (660) gallons of fuel.

APPLICATION

This policy applies to those installing diesel powered generator sets (gen-sets) within the Coalinga Fire Department's (CFD or Department) jurisdiction.

OPERATIONAL POLICY

Non-integral base tanks for supplying gen-sets will be UL 2085 fire resistive tanks or underground tanks installed per the California Fire Code (CFC).

Exterior installation of gen-sets requires a revised site plan or conditional use permit entitlement as mandated by the Planning and Development Department. This submittal is routed to CFD for review for the purposes of site access and fire hydrant protection.

Gen-set installations require a plan submittal and installation permit from the Planning and Development Department. This submittal is routed to the CFD for review; the submittal package needs to include a copy of the entitlement submitted to Planning and the manufacturer's details and UL listing of the fuel tank to be used for the installation.

In addition to the building plan submittal, a deferred above ground tank plan submittal and installation permit from CFD is required when the diesel fuel tank is in excess of sixty (60) gallons capacity.

A hazardous materials use permit from CFD is required for all diesel fuel tanks in excess of sixty (60) gallons capacity.

The fuel tank vent line will terminate a minimum of twelve (12) feet above grade.

Exterior installations will be protected from vehicle impact by bollards or other approved protection.



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Diesel engines will comply with the San Joaquin Air Pollution Control District requirements for stationary installations.

The UL 142 fuel tanks will have integral secondary containment.

A minimum clear space of three (3) feet to walls or other obstructions will be provided around the gen-set for the purposes of maintenance and inspection.

Other standards regarding gen-set installation include NFPA 37 “Installation and Use of Stationary Combustion Engines and Gas Turbines” and NFPA 110 “Emergency and Standby Power Systems”.

Exterior gen-set locations will be as follows:

1. Gen-sets with base tanks of two hundred seventy-five (275) gallons or less will be located a minimum of five (5) feet from property lines and the roof drip line of buildings.
2. Gen-sets with base tanks of two hundred seventy-six through six hundred sixty (276-660) gallons will be located a minimum of ten (10) feet from property lines, and the roof drip line of a building.
3. The distances specified in No. 1 and No. 2 may be modified in accordance with any of the following exceptions:

Exception 1: Distance from buildings may be reduced to three (3) feet for buildings having walls with a minimum one (1) hour rating including protected openings within ten (10) feet of the gen-set.

Exception 2: Distance from buildings may be reduced to three (3) feet from fire sprinklered buildings with non-fire rated exterior walls when exterior exposure fire sprinkler heads are provided and there are no building penetrations within ten (10) feet of the gen-set.



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Exception 3: Distances may be reduced to three (3) feet from property lines, when a minimum six (6)-foot high concrete block screen wall is provided. This wall will extend five (5) feet linearly from the ends of the gen-set.

Exception 4: Distances may be reduced to five (5) feet if the base tank is UL 2085 listed.

OPERATIONAL GUIDELINE

Increased demand for reliable standby power has resulted in an expansion of options available to the purchaser for the fuel supply. Fuel tanks are available as UL 142 non-fire protected tanks and as UL 2085 fire resistive tanks. This policy for integral base diesel tank gen-sets should be followed to provide an acceptable level of fire safety and to limit the size of above ground fuel tanks to minimize the associated fire risk to the community. Gen-set placement relative to buildings and property lines has been based on CFC requirements for above ground tanks and portable containers of Class II combustible liquids.

PROCESS

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INFORMATION

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DEFINITIONS

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CROSS REFERENCES

California Fire Code

NFPA 37 Installation and Use of Stationary Combustion Engines and Gas Turbines

NFPA 110 Emergency and Standby Power Systems