



# COALINGA FIRE DEPARTMENT

GREG DUPUIS, FIRE CHIEF

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CITY OF COALINGA FIRE DEPARTMENT		
FIRE PREVENTION STANDARD		
STANDARD TITLE:	405.035 NAPA 13D HYDRAULIC CALCULATIONS	
STANDARD NUMBER: 405.035	EFFECTIVE DATE: <b>October 26, 2022</b>	REVISION DATE: October 26, 2022

## ***PURPOSE***

The purpose of this policy is to clarify the Coalinga Fire Department's (CFD or Department) requirements related to preparing fire sprinkler systems designed for one and two family dwellings in accordance with National Fire Protection Association (NFPA) 13D - Standard for the Installation of Sprinkler Systems in One- and Two- Family Dwellings (current edition with California amendments).

## ***APPLICATION***

This policy applies to all one- and two-family dwellings that will be equipped with a fire sprinkler system within the Department's service area, including contract service areas. These requirements apply to both required and voluntary fire sprinkler systems.

## ***OPERATIONAL POLICY***

Based upon the need for uniformity in application across the Department's diverse service delivery area, and after careful deliberation, the Department has determined the following:

1. Every fire sprinkler system to be installed in a one- or two-family dwelling must be provided with hydraulic calculations in accordance with NFPA 13D.
2. The use of NFPA 13D, §10.4.4 is prohibited. Designers and contractors must use the Department's prescriptive water supply curves for fire sprinkler design as the design basis for all fire sprinkler systems, including those designed under NFPA 13D. Designers and contractors must contact the Department to obtain this information, prior to submitting a permit application.
3. The use of any NFPA 13D section which uses a prescriptive pipe sizing method is prohibited.
4. When a single sprinkler head is protecting a single room and the spacing is different from that shown on the required two head calculation, the designer must also provide a single head hydraulic calculation.



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## ***OPERATIONAL GUIDELINE***

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## ***PROCESS***

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## ***INFORMATION***

Per the California Fire Code (CFC) and California Residential Code (CRC), the fire code official has the authority to formulate policies they deem necessary based upon local conditions related to fire sprinkler systems in one- and two-family dwellings.

## ***DEFINITIONS***

This section left intentionally blank.

## ***CROSS REFERENCES***

California Fire Code (CFC), Current edition

California Residential Code (CRC), Current edition

Coalinga Municipal Code (FMC)  
Section 10-50101.1.3, Responsibility for Enforcement

National Fire Protection Association (NFPA) - 13D,  
Standard for the Installation of Sprinkler Systems in One- and Two- Family Dwellings  
(current edition with California amendments)