



COALINGA FIRE DEPARTMENT

GREG DUPUIS, FIRE CHIEF

300 W. Elm Ave • Coalinga, CA 93210 • Phone (559) 935-1652 • Fax (559) 935-1638

CITY OF COALINGA FIRE DEPARTMENT		
FIRE PREVENTION STANDARD		
STANDARD TITLE:	401.013 CLEAN AGENT SYSTEM SPECIFICATIONS	
STANDARD NUMBER: 401.013	EFFECTIVE DATE: 1 October 2022	REVISION DATE: 1 October 2022

PURPOSE

This policy has been established to clarify the requirements for the preparation and submission of all clean agent system plans.

APPLICATION

This policy applies to all applicants submitting clean agent (and similar) extinguishing system plans to CFD for review and approval for projects within the City of Coalinga.

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. Clean agent systems are to be drawn with care by a trained person meeting all the requirements found within the applicable law, code, ordinance, or standard.
2. Plans will be drawn on a minimum of twenty-four-inch by thirty-six-inch (24" x 36") paper and shall be drawn to an indicated scale of not less than one-eighth inch (1/8") = one foot (1').
3. All notes and information on each plan sheet must be a minimum of twelve-point (12pt.) font or larger. Fonts must be either: Engineers font, Architects font, Arial font or Calibri font. Plans using unusual or difficult to read fonts will not be accepted. The Fire Marshal, or designee, will make the determination of acceptability, and the determination will be final.
4. An area of no less than four-inch by six-inch (4" x 6") located in the bottom right hand corner of each plan sheet (excluding the title block), must be left free of any text, mark, etc., to facilitate the marking of plans by Department staff.



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5. Drawings are required to generally be organized based upon the United States Department of Energy, Fundamentals Handbook for Engineering Symbolology, Prints, and Drawings (Vols. 1 & 2) (1993 edition). Available for download at:
http://edtech2.boisestate.edu/jasonclemens/512/files/DOE-v1_.pdf
6. Drawing line weights, match lines (where used) and legibility (including printed pages) must be in accordance with either the United States Department of Energy, Fundamentals Handbook for Engineering Symbolology, Prints, and Drawings (Vols. 1 & 2) (1993 edition), or the latest edition of the American Institute of Architects design guidelines.
7. All fire protection symbols must be in accordance with *NFPA 170* - Standard for Fire Safety and Emergency Symbols (2018 edition) where a symbol is provided. Other symbols are not permitted by FFD. Initiating devices shall be shown as required in Table 8.3 and notification appliances shall be shown as required in Table 8.4.2. For each type of nozzle to be installed, a different symbol will be used.
8. Bells are not permitted to be used as notification appliances for any clean agent (or other type) of extinguishing systems, except fire sprinkler systems.
9. Each of the following items must be included on the plans. Plans will be returned for revision when the following items are not present:
 - A. Each of the 28 items noted in NFPA 2001 (2015 edition) §5.1.2.
 - B. The room use (different than occupancy noted above), the total square footage, the room dimensions, the finished ceiling height.
 - C. A detailed scope of work for the project including a description sufficient to clearly indicate the location, nature and extent of the work. A scope of work indicating "installation of a clean agent system", or similar non-descript scoping is inadequate, and plans will be returned to be updated.
 - D. Location of the project, including the City of Fresno officially assigned



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address.

- E. A site plan of the location. A site plan will show the layout of the building relative to public streets and private drives. A location pin from mapping software does not meet the requirements of a site plan.
- F. Name of the installing contractor, address, phone number, type of license and license number, with wet stamp and signature on each plan sheet.
- G. The California Building Code (CBC) occupancy group of the building and an indication of whether the building is equipped with a fire sprinkler system. Unsprinklered buildings will be required to have a reserve agent tank of a volume equal to or greater than the design concentration required for the system installed per Department policy.
- H. Concentration calculations. These are permitted to be in the submittal book in lieu of the plans.
- I. Clean agent sequence of operation matrix. Matrices will be prepared in the format shown on the sample matrix at the end of this policy and include signal transmission for all signals. Signal transmission must be in accordance with NFPA 72 §26.4.1.4. Telephone lines are not permitted.
- J. Equipment legend. Equipment legends will be prepared in the format shown on the sample legend at the end of this policy. All equipment must be shown including Horns, strobes, abort switches, activation mechanisms, solenoids, signage, etc.
- K. HVAC system and/or damper interconnection and location of equipment (See: *Fire Prevention Manual*, Section 407.004, HVAC Shut Off).
- L. Voltage drop calculations using a starting voltage of 20.4V.
- M. If using an exception found in *NFPA 72*, *NFPA 2001*, or the *California fire Code (CFC)*, it is the designer/contractor's responsibility to provide adequate and necessary documentation to use the exception per *CFC*, §105. Alternate detector spacing, etc. must be noted in a sufficient manner. The Fire Marshal, or designee will make the determination of acceptability,



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and the determination will be final.

N. Complete riser diagram.

O. Revisions or changes must be called out with a cloud or delta. Each re-submittal must have a new numbered delta, and previous clouds or deltas must be removed.

P. Submittals, addendums, revisions, etc., without proper clouding, an associated delta, or other substantial clarifying notes regarding the scope of work will be rejected without review.

10. The following standard notes must be applied to the first sheet of plans:

A. It is the contractor's responsibility to make all work available for inspection.

B. A copy of the approved plan set is required to be on site during any Department inspection.

C. Contractors are required to provide a decibel meter during final acceptance testing to field verify audible characteristics. No final will be given by the Department unless required audibility is field verified.

D. Installation must comply with *California Electrical Code (CEC)*, Section 300.21, Spread of Fire or Products of Combustion, regarding penetrations through fire resistive assemblies to prevent the spread of fire and toxic products of combustion.

E. All other extinguishing systems (i.e., commercial cooking, etc.) must be/or are interconnected to the master fire alarm control unit as required, including on the sequence of operation.

F. Exterior components are required to be mounted in a weather tight manner.

G. All existing equipment is required to be noted with an (E) on all submittal documents (if applicable).



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- H. Designer has verified all new fire alarm equipment to be installed is backward compatible with existing fire alarm equipment (if applicable).
- I. All applicable code references must be provided (i.e., *NFPA 2001*, 2015 Edition w/ California Amendments).

OPERATIONAL GUIDELINE

This section intentionally left blank.

PROCESS

This section intentionally left blank.

INFORMATION

As noted in the *CFC*, the fire code official has the authority to formulate policies they deem necessary based upon local conditions related to plan submittals for all systems and applications.

The requirements noted in this policy apply to both required and voluntary systems.

DEFINITIONS

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CROSS REFERENCES

California Fire Code

California Building Code

California Electrical Code

Section 300.21, Spread of Fire or Products of Combustion



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NFPA 2001, 2015 Edition w/ California Amendments

NFPA 170, Standard for Fire Safety and Emergency Symbols (2018 edition)

Fire Prevention Manual

Section 407.004, HVAC Shut Off

United States Department of Energy, Fundamentals Handbook for Engineering Symbolology, Prints, and Drawings (Vols. 1 & 2) (1993 edition)