



## Travis County ESD No. 12

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FirePrevention@tcesd12.com



### HOOD EXTINGUISHING SYSTEM REQUIREMENTS

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TCESD No. 12 is governed by the 2015 International Fire Code as amended and adopted. The submittal shall conform to that, and the most current edition of NFPA 17A, NFPA 72, NFPA 96, IMC and all other applicable codes and standards. The use of newer editions of code references is acceptable as long as the design meets or exceeds the requirements of the current adopted editions.

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**THE INFORMATION IN THIS DOCUMENT IS NOT ALL INCLUSIVE OF POSSIBLE ITEMS REQUIRED PER CODE. IT IS THE RESPONSIBILITY OF THE DESIGNER AND SUBMITTING CONTRACTOR TO INCLUDE ALL THE PERTINENT INFORMATION NOT MENTIONED IN THIS DOCUMENT.**

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**REQUESTS FOR HOOD EXTINGUISHING SYSTEM INSPECTIONS WILL ONLY BE ACCEPTED FROM THE LICENSED HOOD EXTINGUISHING SYSTEM CONTRACTOR.**

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- The hood extinguishing system plan shall be approved by TCESD No. 12 prior to the installation of any system components.
- The approved hood extinguishing system plan shall be on site at all times for TCESD No. 12 inspections. The TCESD No. 12 inspector will not perform the hood extinguishing system inspection without the TCESD No. 12 approved hood extinguishing system plan.
- The cover page of the hood extinguishing system plan shall include:
  - Scope of work
  - Travis County ESD No. 12 Reviewer Signature Block
  - Address of the project
  - Proof of proper training for the designer and installer. Copies of applicable licenses shall be provided.
  - Contact information for property owner
  - All applicable codes referenced and applied for the project

Additional sheets of the plan submittal shall include the following information:

- The approved plan shall be on site at all times for TCESD No. 12 inspections. The TCESD No. 12 inspector will not perform the inspection without the approved hood extinguishing system plan.
- The manufacturer's listed installation manual shall be on site and available on acceptance tests for the TCESD No. 12 inspector. Please note, if a full manual is not available, the inspection may be discontinued and re-scheduled.
- The owner shall be provided with a copy of the manufacturer's listed installation and maintenance manual or listed owner's manual.
- Wet chemical systems shall be provided with an audible or visual indicator to show that the system is in a ready condition or is in need of recharging.
- A sectional view of cooking appliances with the dimensions of each piece of cooking equipment shall be provided.
- A floor plan layout that includes the location of the cooking equipment, exit doors, manual pull(s), Class K extinguisher(s), and other non-protected appliances shall be provided.

- A piping schematic that includes the equivalent pipe length calculation (if applicable), the number and type of nozzles, and the location, height and direction of nozzle placement over each piece of cooking equipment shall be provided.
- An equipment legend for each supply tank (multiple cylinders supplying the same nozzles shall be combined on legend). The legend shall include the type of nozzles that are connected to that tank, the tip number/identifier, the total number of flow points used, and the number of flow points allowed for that size tank.
- The location of each fusible link for each protected equipment shall be shown on the plan.
- All discharge nozzles shall be provided with caps or other suitable devices to prevent the entrance of grease vapors, moisture, environmental contaminants or other foreign materials into the piping. The protection device shall blow off, blow open or blow out upon agent discharge.
- The size and location of any back shelf (solid/non-solid) shall be shown. If a back shelf is going to be installed, the manufacturer's detail depicting nozzle aim and placement shall be provided.
- All gas fueled, electrically powered and heat producing equipment located under the hood shall shut down upon activation of the extinguishing system. All sources of fuel and electric power that produce heat to all equipment protected by the system shall be shut down to all equipment protected or heat to appliances served by the common exhaust duct shall be shut down upon.
- Hood exhaust fans shall continue to operate after the extinguishing system has been activated.
- The exhaust fan serving a Type I hood shall have automatic controls that will activate the fan when any appliance that requires such Type I Hood is turned on, or a means of interlock shall be provided that will prevent operation of such appliances when the exhaust fan is not turned on.
- Piping shall be rigidly supported to prevent movement (shall not be able to sway for cleaning). Swivel nozzles shall be rotated to a predetermined aiming point and then tightened to hold that angle.
- Movable cooking equipment shall be provided with a means to ensure that it is correctly positioned in relation to the appliance discharge nozzle during cooking operations.
- All deep-fat fryers shall be installed with at least a 16-inch space or 8-inch steel or tempered glass baffle plate between the fryer and surface flames from adjacent cooking equipment.
- A manual actuation device shall be located in a path of egress from the cooking area, not less than 10 feet and more than 20 feet from the hood extinguishing system.
- The manual actuation device shall clearly identify the hazard protected.
- Where a building **fire alarm** system is installed, the automatic fire-extinguishing system(s) shall be monitored by the building fire alarm system. A technician from the fire alarm company shall be on site when the hood extinguishing system is tested in the presence of a TCESD No. 12 inspector.
- For existing hood extinguishing systems, where changes in the cooking equipment, positioning of cooking equipment or replacement of cooking equipment occur, a plan shall be submitted to TCESD No. 12 for the hood extinguishing system and shall comply with the applicable provisions.
- Any additional inspections beyond the allotted two (2) standard inspections will incur a re-inspection fee.
- Submit the signed TCESD No. 12 Hood Extinguishing System Checklist and a PDF copy of the plan with your submittal.