



City of Petaluma Fire Department

11 English Street – Petaluma, California 94952

Fire Prevention Bureau

Telephone: (707) 778-4389 / Facsimile: (707) 776-3642

WET CHEMICAL FIRE SUPPRESSION SYSTEM ACCEPTANCE GUIDELINES

PLANS

- NAME AND ADDRESS OF PROJECT.
- SYSTEM INSTALLER'S NAME, ADDRESS, PHONE NUMBER, CONTRACTOR'S LICENSE NUMBER AND TYPE OF LICENSE.
- LAYOUT OF HOOD, DUCT SHAFT(S), APPLIANCE LINE UP (SIZE AND TYPE OF APPLIANCE – I.E.: 14" FRYER ETC.), GAS VALVE AND PULL STATION LOCATION TO THE SYSTEM.
- NOZZLE LAYOUT TO HOOD PLENUM CHAMBER, DUCT SHAFT(S) AND APPLIANCES. THESE ARE TO BE MARKED AND REFERENCED TO A NOZZLE LEGEND.
- NOZZLE LEGEND:
 - MANUFACTURE PART NUMBERS AND NOZZLE TYPE AND FLOW POINT PER NOZZLE (I.E.: ANSUL #419334, 245 NOZZLE – 2 FLOW POINTS EACH);
 - NOZZLE HEIGHTS ABOVE APPLIANCE (I.E.: ANSUL 245 NOZZLE: 40" TO 50" ABOVE RANGE);
 - TOTAL NUMBER OF FLOW POINTS USED IN THIS SYSTEM;
 - TOTAL NUMBER OF FLOW POINTS IN THE SYSTEM.
- APPROXIMATE LOCATION OF GAS VALVE, PULL STATION AND ELECTRICAL CONTRACTORS.
- LOCATION OF THE FIRE SUPPRESSION SYSTEM TO HOOD LOCATION (I.E.: LEFT SIDE OF HOOD, IN THE ATTIC, ETC.):
 - MANUFACTURER'S NAME OF SYSTEM (I.E.: ANSUL R-102);
 - SIZE OF SYSTEM TANK(S) (I.E.: 3 GALLON, ETC.);
 - PIPING LAYOUT (I.E.: 3/8" BLACK PIPE, ETC.);
 - CONDUIT LAYOUT TO GAS VALVE, PULL STATION AND DETECTION LOOP.
- AN ISOMERIC DRAWING OF THE DISCHARGE PIPING GIVING LENGTHS OF EACH PIPE. (THIS CAN BE A "BEST" APPROXIMATION.)
- DETECTION LOOP DETAIL THAT LISTS THE DEGREE OF EACH FUSIBLE LINK.
- CERTIFY THE SYSTEM MEETS UL 300 STANDARDS.
- CERTIFY THE SYSTEM COMPLIES WITH NFPA 17A.
- A FLOOR PLAN OF THE KITCHEN AREA SHOWING LOCATION OF THE HOOD, SYSTEM, GAS VALVE, ELECTRICAL CONTRACTORS, PULL STATIONS AND LOCATION OF CLASS K EXTINGUISHER.



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ACCEPTANCE TEST GUIDELINES

- CONTRACTOR TO HAVE ON SITE DURING ACCEPTANCE TEST:
 - COPY OF APPROVED PLANS;
 - PERMIT REQUIRED BY THE AHJ;
 - SERVICE MANUAL FOR SYSTEM FOR REFERENCE.

- GAS SHOULD BE ON AS WELL AS ELECTRICAL SUPPLY TO HOOD AREA. IF BUILDING IS ALARMED, AN ALARM COMPANY REPRESENTATIVE SHOULD BE PRESENT TO RESET ALARM SYSTEM AFTER TESTING.

- CONTRACTOR SHOULD BE PREPARED TO DO THE TEST. (I.E.: BALLOONS, TEST CARTRIDGE, TEST LINK, ETC.)

- WHEN DOING THE TEST, TEST BOTH MANUAL AND MECHANICAL MEANS OF ACTIVATION. (I.E.: PULL STATION ACTIVATION, AS WELL AS CUTTING TEST LINK AT FURTHEST DETECTION POINT.)

- WHEN SYSTEM IS FIRED, MAKE SURE:
 - ALL BALLOONS BLOW UP;
 - CHECK SIZES THAT BALLOONS EXPAND. (REMEMBER: EACH NOZZLE HAS A FLOW POINT AND BY COMPARING BALLOONS, IT WILL SHOW WHETHER THEY ARE ½ FLOW, 1 FLOW, 2 FLOW OR 3 FLOW BY THE SIZES THE BALLOONS BLOW UP.);
 - THAT THE GAS VALVE CLOSES. HAVE AN APPLIANCE TURNED ON TO SEE THE SYSTEM WORK;
 - CHECK ELECTRICAL APPLIANCES THAT THEY SHUT OFF;
 - CHECK THE PLENUM CHAMBER AND DUCT SHAFT(S) BALLOONS TO ENSURE THAT THEY HAVE EXPANDED AS THEY SHOULD;
 - THE EXHAUST FAN ON THE DUCT SHAFT SHOULD STAY ON. (ALL SYSTEMS ARE TESTED AND CERTIFIED WITH THE EXHAUST FANS ON OR OFF.)

- CHECK ALL PENETRATION THROUGH THE HOOD. THESE MUST BE WELDED OR HAVE UL APPROVED GREASE SEALS AT ALL PENETRATIONS. CHECK THAT ALL PIPE THREADS ARE SEALED USING TEFLON TAPE. THIS IS REFERENCED IN THE SERVICE MANUAL.

- HAVE THE CONTRACTOR TAKE DOWN A NOZZLE DROP AND LOOK AT THE ENDS OF THE PIPE. DO YOU KNOW THAT ALL PIPE ENDS MUST BE REAMED AND CLEAN OF OBSTRUCTIONS? THIS IS REFERENCED IN THE SERVICE MANUAL.

- HAVE THE CONTRACTOR TAKE DOWN A NOZZLE OR TWO. CHECK THESE AGAINST THE NOZZLE LEGEND ON THE PLANS AND THAT THEY ARE THE PROPER NOZZLE FOR THAT APPLIANCE. REFERENCE THE SERVICE MANUAL.

ACCEPTANCE TEST GUIDELINES, cont.

- MAKE SURE THAT ALL APPLIANCES ARE COVERED WITH NOZZLES AND THAT THEY ARE AIMED PROPERLY.
- MAKE SURE THE NOZZLES TO ALL APPLIANCES ARE WITHIN THE APPROVED PLAN SPECIFIED.
- MAKE SURE THAT ALL APPLIANCES ARE UNDER THE HOOD LINE BY AT LEAST 6".
- REMEMBER: WHEN THE SYSTEM IS TRIPPED:
 - CLOSE THE GAS VALVE AND ENSURE ALL GAS IS SHUT DOWN;
 - SHUT DOWN ALL ELECTRICAL EQUIPMENT AND PLUGS UNDER THE HOOD;
 - IF AN ALARM SYSTEM IS PRESENT, ENSURE THAT THE ALARM ACTIVATES.
- REMEMBER: WHEN IN DOUBT, ASK QUESTIONS. THE CONTRACTOR CAN SHOW THE REFERENCE POINTS IN THE SERVICE MANUAL.