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February 13, 2017

Tim Kelley
Giles Enterprises, Inc.
2750 Gunter Park Drive West
Montgomery, AL 36109-1016

RESEARCH REPORT: RR-8110
EFFECTIVE DATE: 02/13/17
EXPIRATION DATE: 03/01/18
Telephone: 800-554-4537

GENERAL APPROVAL - Renewal - "GILES" ventless hoods, models FSH-(2 , 2A, 2A-99, 2A99W, 2-PH, 3.5, 4, 5, 6), **GVH-C, GVH-F, PO-VH, OVH-10, OVH-10-C and FB** or Self Contained Electric Fryers with ventless hood, models GEF-(400, 560 or 720)-VH, CF-(200, 400 or 500)-VH, WOG-(VH-D, VH-MP, 20MP-VH), **GBF-35/50-DVH, and GBF-2-35/50-GVH** manufactured by Giles Enterprises, Inc.

DETAILS

These products are electrically-connected, self-contained, stainless steel commercial fryers (kettle) with ventless hoods and ventless hoods for installation over approved electrical cooking appliances. Models PO-VH and OVH-10 are direct mount or ceiling hung hoods. OVH-10-C is a counter top version ventless hood. FSH models are ceiling hung or free-standing canopy type hoods. GVH-C is a counter top version, GVH-F is a free standing canopy type hood. Each ventless hood consists of a blower, a three or four-stage grease filtration system, and contain a built-in fire extinguishing (suppression) system or are internally piped for a field installed approved fire extinguishing (suppression) system. **All fire suppression systems shall be UL listed.** The first-stage of filtration system is a grease baffle filter, the second is an electronic precipitator, and the third is a disposable charcoal filter. Units with the 4 stage system have a pre-filter before the electronic precipitator. There is no gas, plumbing, drain or duct through the hood. A pressure differential type interlock system, which monitors the air flow through the hood, shuts down the appliance when the blower in the hood is not working, or a filter is missing or clogged. These products are currently listed by Underwriters Laboratories (UL) Inc. [Report No. E143926, MH 14950 and MH 19530] and certified by NSF Standard Number 4-2007E **or UL Sanitation.** All of the additions are variations of hoods in the noted files.

The approval is subject to the following conditions:

1. These hood systems may be installed in commercial kitchens and be used with electric

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commercial cooking appliances only. These products shall be installed in accordance with the Los Angeles Mechanical Code, 2017 Edition, the manufacturer's printed instructions and this research report.

2. A separate ventilation hood over the ventless hood is not required. No supplemental plenum outside of the listed product shall be installed. These hoods do not require any duct work connections.
3. Approval of use, plans and installation:
 - a. Electrical, Mechanical and Health Department permits shall be obtained for each installation of these products.
 - b. Detailed plans shall be submitted to Mechanical Plan Check Section for approval. Plan Check Section shall verify that the plans show that the room ventilation requirements are met. Plan submitter is responsible for providing a copy of the installation instructions and this research report to Plan Check Section at time of plan submittal. Plans shall be approved prior to the issuance of any permits and prior to beginning construction.
 - c. All the electrical components that are part of these product shall be currently listed for the intended use by a City of Los Angeles recognized electrical testing and listing agency or currently approved by the Electrical Testing Laboratory, City of Los Angeles.
 - d. The fire extinguishing (suppression) system shall be inspected and approved by the City of Los Angeles Fire Department.
 - e. This approval applies only to the provisions of the Mechanical and Plumbing Codes. It shall not be construed to be an approval under the Electrical Code.
 - f. A field test, satisfactory to the mechanical inspector, shall be performed to assure the operation of all safety features and devices prior to acceptance.
4. These units shall be installed in accordance with the following:
 - a. Each product shall be secured to the ground or service counter when they are in operation.
 - b. Comfort air recirculating system return air inlets shall not be located within **kitchens. Minimum clearance between air outlets on these units to supply air diffusers is 10 feet and to return air registers is 6 feet.**

- c. Room ventilation shall be provided at a rate not less than the greater of the following:
 - (i) A minimum of four (4) air changes shall be provided in the room where the hood is installed.
 - (ii) The space in which the unit is installed shall be mechanically ventilated at the rate of 100 cfm per linear foot of the hood per manufacturer's recommendation or per Section 91.1202 of the Los Angeles Building Code, 2017 Edition.
 - (iii) **All Giles hoods covered by this report meet or exceed the requirements of the EPA 202 grease emissions test.**
- d. All cooking appliances shall be installed with not less than the minimum clearances specified by the manufacturer in the printed instructions.
- e. The electrical cooking appliances used under these hoods shall be interlocked with the hood by field wiring in accordance to the Los Angeles Electrical Code, 2017 Edition. An electrical permit is required for this work, for any other field wiring required for the installation of this unit, for any electrically interconnected appliance and for any electrical wiring as referenced in this research report.
- f. Only UL listed metal-framed grease filters and UL Class 1 air filters shall be used in these products.
- g. A pressure differential type interlock system shall be installed in the unit in order to prevent the hood and the cooking appliance from operating if any filter is clogged or missing (removed).
- h. A listed fire extinguishing (suppression) system shall be part of the hood and interlocked with the hood to serve the grease filters, Charcoal filter and the electric cooking equipment as required by the Los Angeles Mechanical Code, Section 95.510, 2017 Edition. This system shall be inspected and approved by the City of Los Angeles Fire Department. The hood shall shut down when the fire extinguishing (suppression) system is not operational.
- i. The clearance from the surrounding combustible materials to these products shall comply with the requirement of UL listing and the hood shall have a clearance of at least 18 inches to combustible material per the Los Angeles Mechanical Code, 2017 Edition.

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5. These units may be used with commercial electric cooking appliances. Only the appliances meeting the power input, temperature and surface area limitations as established by a Los Angeles City approved listing agency (UL, file # E143926, MH 14950 and MH 19530) shall be installed under these hoods in compliance with Section 13.2.6 of NFPA 96.
6. Waste liquid in the condensate tank shall be disposed of in an approved manner. The condensate tank shall be emptied daily into an approved grease interceptor.
7. Each unit shall be maintained on a service contract. Service shall include the change-out of the charcoal filters. The grease filters shall be replaced as needed.
8. The unit when operated shall be maintained in clean working order by trained personnel.
9. Cleaning instructions with operating instructions shall be included with each shipped unit.
10. Each product shall be permanently labeled with the manufacturer's name "GILES ENTERPRISES", the appropriate model number, and the Underwriters Laboratories logo.

DISCUSSION

A current production sample was examined by the Mechanical Testing Laboratory. The material and construction are equivalent to that prescribed by the Los Angeles Municipal Code in quality, strength, effectiveness, durability and safety.

For this General Approval to be valid on any individual construction project in the City of Los Angeles, an engineer or inspector of the Department of Building and Safety must make a determination that all conditions of the General Approval required to provide equivalency have been met in the case of each construction project under consideration.

This approval is granted under Sections 95.105, 95.302, **95.313.3**, 95.507, 95.509, and 95.510 of the Los Angeles Mechanical Code, 2017 Edition.

Approved by:

Manouchehr Shahrestani
Mechanical Testing Laboratory
Permit and Engineering Bureau

TABLE 1
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AIR FLOW DATA

Model	Maximum exhaust (cfm)	Minimum exhaust (cfm)
CF-200-VH	382	267
CF-400-VH	495	347
CF-500-VH	556	389
WOG-20MP-VH	329	230
WOG-VH-MP	493	345
WOG-VH-D	493	345
PO-VH	448	314
OVH-10, OVH-10-C & FB	307	215
FSH-(3.5, 4, 5, 6)	1168	818
FSH-(2, 2A, 2A-99, 2A99W, 2-PH)	495	347
GEF-(400,560 or 720)-VH	680	510
GBF-35/50-DVH	680	510
GBF-2-35/50-GVH	560	393
GVH-C & GVH-F	560	393