# Congregation Geza Yakov – Kerestir Matzah

32 Lynch Street Brooklyn N.Y. 11211 718-596-0597

## 24-110 – Variances for Cooking Equipment (Cook Stove)

**Section of Air Code Variance:**

- **24-149.5 Cook Stoves (c) (existing Cook Stove)**

"No person shall use an existing cook stove unless such cook stove is in compliance by January 1, 2020, with the requirements for control systems established by the commissioner pursuant to subdivision (b)."

**1. Reason for Variance Request:**

• What is the purpose of using solid fuel (wood or coal)?

The purpose of using a small amount of firewood is to fulfill a traditional religious custom of Baking a special holy bread, called matzos, which were traditionally baked in Wood-burning ovens. This matzah is eaten on our holy holiday of Passover. We place a Small amount of wood into the gas-powered oven to uphold this traditional religious custom.

**• Explain why complying with Section 24-149.5 of the Air Code to install a pollution control device to reduce particulate matter from solid fuel cooking emissions would impose an unreasonable hardship.**

Our ovens are primarily powered by a gas burner 399,000 BTU/hr. The small amount of solid fuel is used only to maintain a religious custom.

- **Emissions are below the mandated threshold**:

As demonstrated by the attached test results done by **Walden Environmental Engineering**, (Order ID: KERE2601), the particulate matter (PM) emissions from our operation are at or below the regulatory threshold of 10 mg/m.
The measured samples at 32 Lynch Street showed concentrations ranging from 0.389 mg/m to 0.393 mg/m. giving us an average of 0.323mg/m Therefore, the facility meets the required emission standard, and the requirement to install an emission control device is an unnecessary hardship.

**2. Description of Cooking Equipment:**

- **Application ID:** PG014225
- **Oven volume:** 135 Cu.Ft.
- **During which months of the year will equipment be in operation:** November - April
- **How many days per month:** Approximately 20
- **How many total days per year:** 100
- **How many hours per day:** 8
- **Fuel type:** Solid fuel is used in combination with natural gas
- **Solid fuel type:** Firewood
- **Dimensions and weight**: About 4" x 18" 2.5 lbs. per log
- **How many logs of wood per day:** 32 logs
- **How many logs of wood per hour**: 4 logs

## 3. Test Data Available:

## • Do you have test data to establish the emission level without controls?

Yes, attached are the test results done by **Walden Environmental Engineering** (Order ID: KERE2601),

**If you have a pollution control device (a/k/a emission control device), what is the % reduction of particulate matter (PM)?**

No.

**(Section 4 is omitted as emissions are below 10 mg/m, per form instructions)**

Owner Affirmation

I affirm that all submitted information is true, accurate, and complete.

Signature M Neuschloss

Mordechai Neuschloss - Owner

(type name and title here)

Date: Jan. 22 2026

WALDEN

*Delivered via email to lazerneuschloss@gmail.com*

January 13, 2026
KERE2601

Mr. Mordechai Neuschloss
Congregation Geza Yakov
199 Lee Avenue, Unit 303
Brooklyn, New York 11211

Re: 1) Cook Stove Total Suspended Particulate Emission Testing at Kerestir Matzah Bakery 32 Lynch Street, Brooklyn, NY 11211

2) Rules of the City of New York, Title 15, Chapter 62-05, Testing Requirements for Emission Control Devices

Dear Mr. Neuschloss:

This letter summarizes Total Suspended Particulate testing performed at Kerestir Matzah Bakery, located at 32 Lynch Street, Brooklyn, NY 11211 (the Site) on 1/9/2026 by representatives of Walden Environmental Engineering, PLLC (Walden). Testing was conducted at the Site in accordance with the requirements of the Rules of the City of New York, Title 15, Chapter 62-05. Readings were taken as follows:

| | | | | | |
|---|---|---|---|---|---|
| Run #1: | 09:27 A.M. | - | 09:37 A.M. | - | *Cook Stove Exhaust Fan - Operating* |
| Run #2: | 09:38 A.M. | - | 09:48 A.M. | - | *Cook Stove Exhaust Fan - Operating* |
| Run #3: | 09:48 A.M. | - | 09:58 A.M. | - | *Cook Stove Exhaust Fan - Operating* |
| Run #4: | 09:58 A.M. | - | 10:08 A.M. | - | *Cook Stove Exhaust Fan - Operating* |

Kerestir Bakery informed Walden that during the testing two (2) pieces of wood, weighing approximately 2.5 pounds each for a total weight of approximately five (5) pounds, were used to start the Cook Stove's (Matzah Oven) initial fire and an additional five (5) pounds were added to maintain peak load in the wood-burning Cook Stove for the duration of testing. Walden was informed that five (5) pounds of wood is added for each half-hour of cooking during standard baking operations. Typical operations involve eight (8) hours per day of Cook Stove use, corresponding to a throughput of approximately 80 pounds of solid wood fuel per day.

Four (4) consecutive Total Suspended Particulate readings were taken using a TSI DustTrak™ II Monitor 8530 at a flow rate of two (2) liters per minute for ten (10) minutes, downstream from the Cook Stove's operating exhaust fan with the sampling probe inserted into a precut hole. Testing was conducted directly from the Cook Stove's exhaust; no control device was installed in the facility. The average results were then calculated to determine compliance. The attached table presents the results of each sampling event for Total Suspended Particulates conducted on 1/9/2026. A summary of the results is as follows:

Run #1: *Cook Stove Exhaust Fan Operating = 0.389 mg/m$^3$*

Run #2: *Cook Stove Exhaust Fan Operating = 0.295 mg/m$^3$*

Run #3: *Cook Stove Exhaust Fan Operating = 0.214 mg/m$^3$*

Run #4: *Cook Stove Exhaust Fan Operating = 0.393 mg/m$^3$*

Average Value Calulation: $\frac{\text{Sum of Values}}{\text{Number of Values}}$

Average *Cook Stove* Emissions = $\frac{0.389 + 0.295 + 0.214 + 0.393}{4} = \mathbf{0.323\ mg/m^3}$

Testing conducted at the Site on 1/9/2026 demonstrates an average Total Suspended Particulate Emission of 0.323 mg/m$^3$ which complies with the current NYCDEP upper limit threshold of 10.0 mg/m$^3$.

If you have any questions or require any additional information, please call (516) 624-7200.

Please call if there are any questions.

Very truly yours,
Walden Environmental Engineering, PLLC

Robert A. LoPinto, PE
Project Manager III

Louis Goldstein
Project Engineer II

LTG: RAL
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Z:\Congregation Geza Yakov (Kerestir Bakery)\KERE2601\KERE2601 - Cook Stove Particulate Matter Testing Summary Report.docx

## Table 1

**Total Suspended Particulate Testing Results Summary**

# Test 001

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 01/09/2026 |
| Instrument S/N | 8530185018 | Start Time | 09:27:36 |
| | | Stop Date | 01/09/2026 |
| | | Stop Time | 09:37:36 |
| | | Total Time | 0:00:10:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.389 mg/m^3 |
| Max | 0.646 mg/m^3 |
| Max Date | 01/09/2026 |
| Max Time | 09:37:36 |
| Min | 0.136 mg/m^3 |
| Min Date | 01/09/2026 |
| Min Time | 09:36:36 |
| TWA (8 hr) | N/A |
| TWA Start Date | 01/09/2026 |
| TWA Start Time | 09:27:36 |
| TWA End Time | 09:37:36 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 01/09/2026 | 09:28:36 | 0.334 |
| 2 | 01/09/2026 | 09:29:36 | 0.215 |
| 3 | 01/09/2026 | 09:30:36 | 0.416 |
| 4 | 01/09/2026 | 09:31:36 | 0.556 |
| 5 | 01/09/2026 | 09:32:36 | 0.324 |
| 6 | 01/09/2026 | 09:33:36 | 0.216 |
| 7 | 01/09/2026 | 09:34:36 | 0.407 |
| 8 | 01/09/2026 | 09:35:36 | 0.641 |
| 9 | 01/09/2026 | 09:36:36 | 0.136 |
| 10 | 01/09/2026 | 09:37:36 | 0.646 |

# Test 002

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 01/09/2026 |
| Instrument S/N | 8530185018 | Start Time | 09:38:08 |
| | | Stop Date | 01/09/2026 |
| | | Stop Time | 09:48:08 |
| | | Total Time | 0:00:10:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.295 mg/m^3 |
| Max | 0.506 mg/m^3 |
| Max Date | 01/09/2026 |
| Max Time | 09:45:08 |
| Min | 0.154 mg/m^3 |
| Min Date | 01/09/2026 |
| Min Time | 09:41:08 |
| TWA (8 hr) | N/A |
| TWA Start Date | 01/09/2026 |
| TWA Start Time | 09:38:08 |
| TWA End Time | 09:48:08 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 01/09/2026 | 09:39:08 | 0.310 |
| 2 | 01/09/2026 | 09:40:08 | 0.302 |
| 3 | 01/09/2026 | 09:41:08 | 0.154 |
| 4 | 01/09/2026 | 09:42:08 | 0.253 |
| 5 | 01/09/2026 | 09:43:08 | 0.319 |
| 6 | 01/09/2026 | 09:44:08 | 0.237 |
| 7 | 01/09/2026 | 09:45:08 | 0.506 |
| 8 | 01/09/2026 | 09:46:08 | 0.368 |
| 9 | 01/09/2026 | 09:47:08 | 0.275 |
| 10 | 01/09/2026 | 09:48:08 | 0.225 |

# Test 003

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 01/09/2026 |
| Instrument S/N | 8530185018 | Start Time | 09:48:30 |
| | | Stop Date | 01/09/2026 |
| | | Stop Time | 09:58:30 |
| | | Total Time | 0:00:10:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.214 mg/m^3 |
| Max | 0.494 mg/m^3 |
| Max Date | 01/09/2026 |
| Max Time | 09:52:30 |
| Min | 0.103 mg/m^3 |
| Min Date | 01/09/2026 |
| Min Time | 09:57:30 |
| TWA (8 hr) | N/A |
| TWA Start Date | 01/09/2026 |
| TWA Start Time | 09:48:30 |
| TWA End Time | 09:58:30 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 01/09/2026 | 09:49:30 | 0.171 |
| 2 | 01/09/2026 | 09:50:30 | 0.228 |
| 3 | 01/09/2026 | 09:51:30 | 0.132 |
| 4 | 01/09/2026 | 09:52:30 | 0.494 |
| 5 | 01/09/2026 | 09:53:30 | 0.171 |
| 6 | 01/09/2026 | 09:54:30 | 0.202 |
| 7 | 01/09/2026 | 09:55:30 | 0.203 |
| 8 | 01/09/2026 | 09:56:30 | 0.228 |
| 9 | 01/09/2026 | 09:57:30 | 0.103 |
| 10 | 01/09/2026 | 09:58:30 | 0.210 |

# Test 004

| Instrument | | Data Properties | |
|---|---|---|---|
| Model | DustTrak II | Start Date | 01/09/2026 |
| Instrument S/N | 8530185018 | Start Time | 09:58:53 |
| | | Stop Date | 01/09/2026 |
| | | Stop Time | 10:08:53 |
| | | Total Time | 0:00:10:00 |
| | | Logging Interval | 60 seconds |

| Statistics | |
|---|---|
| | **AEROSOL** |
| Avg | 0.393 mg/m^3 |
| Max | 0.700 mg/m^3 |
| Max Date | 01/09/2026 |
| Max Time | 10:01:53 |
| Min | 0.141 mg/m^3 |
| Min Date | 01/09/2026 |
| Min Time | 10:07:53 |
| TWA (8 hr) | N/A |
| TWA Start Date | 01/09/2026 |
| TWA Start Time | 09:58:53 |
| TWA End Time | 10:08:53 |

| Test Data | | | |
|---|---|---|---|
| **Data Point** | **Date** | **Time** | **AEROSOL mg/m^3** |
| 1 | 01/09/2026 | 09:59:53 | 0.257 |
| 2 | 01/09/2026 | 10:00:53 | 0.354 |
| 3 | 01/09/2026 | 10:01:53 | 0.700 |
| 4 | 01/09/2026 | 10:02:53 | 0.406 |
| 5 | 01/09/2026 | 10:03:53 | 0.226 |
| 6 | 01/09/2026 | 10:04:53 | 0.418 |
| 7 | 01/09/2026 | 10:05:53 | 0.516 |
| 8 | 01/09/2026 | 10:06:53 | 0.686 |
| 9 | 01/09/2026 | 10:07:53 | 0.141 |
| 10 | 01/09/2026 | 10:08:53 | 0.227 |

THE CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Environmental Protection

**Rohit T. Aggarwala**
Commissioner

Bureau of Environmental Compliance
59-17 Junction Blvd. 9th Floor, Flushing, NY 11373
Records Control (718) 595-3855

**Mark N Page, Jr.**
Executive Director
Environmental Compliance

# Industrial General Registration

## Business Owner Information

Owner Information: Congregation Geza Yakov

Owner Address : 199 Lee Avenue, Suite 303 Brooklyn NY 11211

Application ID: **PG014225**
Issued: **1/22/2026**
Expiration: **8/1/2028**
Request ID: **467526**

**FACILITY ADDRESS: Congregation Geza Yakov, 32 Lynch Street, Brooklyn, NY 11206**

| | | | |
|---|---|---|---|
| Type of Process | SolidFuelBurningEquipment | Contaminants | PM |
| Material Being Processed | Matzah | | |
| Emission Control Type | Other - Exhaust Fan | | |

| Emission Control | Process Equipment |
|---|---|
| 1 PennBarry FX18BFT | 1 Custom Unknown |

| | | | |
|---|---|---|---|
| Total number of units | 1 | ACFM/ unit | 2431 |
| Hours per day | 8 | Stack Height | 80 |
| Days per year | 100 | Exhaust Location | Roof |
| Oven Volume (Cu.Ft.) | 135 | Natural gas startup? | Yes |
| Emission Control Installation | 3/4/1975 | Natural Gas MMBTU/hr | 0.399 |
| Certified control device? | No | Startup Duration (Hr/Day) | 24 |

| Fuel | Quantity | Unit per day |
|---|---|---|
| Firewood | 80 | lbs |

## Process Description

Uses gas burner (0.399 mmbtu/hr) to pre heat and bake at approximately 1100 degrees. We add a few pieces of wood to keep to our religious custom.

## Special Conditions

This registration requires the equipment comply with Section 24-149.5 and 15 RCNY 62-02 or has a variance for the duration of the permit. An emission control device for particulates must be installed before the registration expires. By 11/15/25, you must install a DEP-certified emission control device or conduct a feasibility study by PE/RA to assess if a device reducing at least 25% of PM is available.
Failure to meet these requirements invalidates the registration before its expiration date

PG014225

Kit Liang

**Kit Liang, P.E.**
**Director of Engineering**

***DISPLAY REGISTRATION ON PREMISES NEAR EQUIPMENT***