



State of Utah

GARY R. HERBERT  
*Governor*

GREG BELL  
*Lieutenant Governor*

Department of  
Environmental Quality

Amanda Smith  
*Executive Director*

DIVISION OF AIR QUALITY  
Cheryl Heying  
*Director*

DAQE-AN0125760003-10

November 4, 2010

Colleen Geurts  
Schreiber Foods Incorporated  
P.O. Box 19010  
Green Bay, WI 54307

Dear Ms. Geurts:

Re: Approval Order: Modification of AO (DAQE-AN2576002-04) to Add One Boiler  
Project Number: N012576-0003

The attached document is the Approval Order for the above-referenced project. Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. The project engineer for this action is Ms. Heather Mickelson, who may be reached at (801) 536-4014.

Sincerely,

M. Cheryl Heying, Executive Secretary  
Utah Air Quality Board

MCH:HM:sa

cc: Bear River Health Department

**STATE OF UTAH**

**Department of Environmental Quality**

**Division of Air Quality**

**APPROVAL ORDER: Modification of AO (DAQE-AN2576002-04)  
to Add One Boiler**

**Prepared By: Ms. Heather Mickelson, Engineer**

**Phone: (801) 536-4014**

**Email: hmickelson@utah.gov**

**APPROVAL ORDER NUMBER**

**DAQE-AN0125760003-10**

**Date: November 4, 2010**

**Schreiber Foods Incorporated  
Logan Cheese Processing Plant**

**Source Contact:**

**Ms. Colleen Geurts, Business Manager**

**Phone: (920) 455-6771**

**M. Cheryl Heying  
Executive Secretary  
Utah Air Quality Board**

## Abstract

Schreiber Foods Incorporated has requested a modification to its AO (DAQE-AN2576002-04) for their cheese processing plant in Logan, Utah. Processed cheese package products, sour cream, and yogurt are produced at this facility. With this modification they are adding one natural gas 400-hp boiler; discontinuing the use of fuel oil as a backup fuel for the three previously-installed boilers; and adding propane as a backup fuel to two of the previously-installed boilers. One boiler will not have a backup fuel. The natural gas consumption will increase to 374 MM cubic feet and propane will increase to 3.2 million gallons.

Cache County is a nonattainment area of the NAAQS for PM<sub>2.5</sub> and is in attainment for all other NAAQS. NSPS apply to this source; however, NESHAP and MACT regulations do not apply to this source. Title V of the 1990 Clean Air Act applies to this source; this is a Title V area source.

The emissions, in tons per year, will change as follows: PM<sub>10</sub> + 0.41, NO<sub>x</sub> +16.41, SO<sub>2</sub> - 1.49, CO + 7.58, VOC + 0.75, HAPs - 0.81. The changes in emissions will result in the following, in tons per year, potential to emit totals: PM<sub>10</sub> = 1.62, PM<sub>2.5</sub> = 1.62 NO<sub>x</sub> = 28.43, SO<sub>2</sub> = 2.19, CO = 19.21, VOC = 2.00, HAPs = 0.35. PM<sub>2.5</sub> emissions are a subset of PM<sub>10</sub> emissions.

This air quality AO authorizes the project with the following conditions and failure to comply with any of the conditions may constitute a violation of this order. This AO is issued to, and applies to the following:

**Name of Permittee:**

Schreiber Foods Incorporated  
P.O. Box 19010  
Green Bay, WI 54307

**Permitted Location:**

Logan Cheese Processing Plant  
885 North 600 West  
Logan, UT 84321

**UTM coordinates:** 429,324 m Easting, 4,622,172 m Northing, UTM Zone 12

**SIC code:** 2022 (Cheese - Natural, Processed & Imitation)

### **Section I: GENERAL PROVISIONS**

- I.1 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
- I.2 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
- I.3 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]
- I.4 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of five (5) years. [R307-401-8]

- I.5 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]
- I.6 The owner/operator shall comply with UAC R307-107. General Requirements: Unavoidable Breakdowns. [R307-107]
- I.7 The owner/operator shall comply with UAC R307-150 Series. Inventories, Testing and Monitoring. [R307-150]

**Section II: SPECIAL PROVISIONS**

**II.A The approved installations shall consist of the following equipment:**

- II.A.1 **Schreiber Foods Inc.**  
A cheese processing plant
- II.A.2 **Boiler EP-1**  
Boiler Rating: 10.2 MMBTU per hour  
This boiler is equipped with a low-NO<sub>x</sub> burner and only burns natural gas and does not have a backup fuel.
- II.A.3 **Boiler EP-2**  
Boiler Rating: 8.2 MMBTU per hour  
The boiler is equipped with a low-NO<sub>x</sub> burner and a flue gas recirculation system. It is primarily fueled with natural gas and uses propane as a backup fuel.
- II.A.4 **Boiler EP-3**  
Boiler Rating: 8.2 MMBTU per hour  
The boiler is equipped with a low-NO<sub>x</sub> burner and a flue gas recirculation system. It is primarily fueled with natural gas and uses propane as a backup fuel.
- II.A.5 **Boiler EP-4**  
Boiler Rating: 16.7 MMBTU per hour  
The boiler is equipped with a low-NO<sub>x</sub> burner, a flue gas recirculation system, and an oxygen trim system. It is primarily fueled with natural gas and uses propane as a backup fuel.
- II.A.6 **Parts Washer**  
A recirculating system that is not vented to the atmosphere.  
Listed for informational purposes only.

II.A.7            **Pressure Vessel Safety Vents.**

The vents are only active during emergency situations.  
Listed for informational purposes only.

II.A.8            **Ammonia Storage Tanks and Refrigeration System**

The pressure relief valve is only activated during an emergency situation.  
Listed for informational purposes only.

II.A.9            **Used Oil Tank**

A self-contained system that does not release to the atmosphere.  
Listed for informational purposes only.

II.A.10          **Propane Tank**

Listed for informational purposes only.

II.A.11          **Carbon Dioxide Tank**

Listed for informational purposes only.

**II.B            Requirements and Limitations**

II.B.1            **Source Wide Requirements**

II.B.1.a          Visible emissions from the following emission points shall not exceed the following values:

- A.      All boilers - 10% opacity
- B.      All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9.

For the boilers that are subject to NSPS, opacity shall be determined by conducting observations in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9. [R307-401-8]

II.B.1.b          The following consumption limits shall not be exceeded:

- A.      374 MM cubic ft of natural gas per rolling 12-month period
- B.      3.2 million gallons of propane per rolling 12-month period

To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the twentieth day of each month using data from the previous 12 months. Records of consumption shall be kept for all periods when the plant is in operation. Consumption shall be determined by fuel supplier's receipts and/or statements. [R307-401-8]

II.B.1.c Schreiber Foods Incorporated shall notify the Executive Secretary in writing when the installation of the equipment listed in this AO has been completed and is operational. To ensure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If Schreiber Foods Incorporated has not notified the Executive Secretary in writing within 18 months from the date of this AO on the status of the construction and/or installation, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation. If a continuous program of construction and/or installation is not proceeding, the Executive Secretary may revoke the AO. [R307-401-8]

II.B.2 **Boiler Requirements**

II.B.2.a Schreiber Foods Incorporated shall use natural gas as a primary fuel for all of the boilers. Boiler EP-1 shall not have a backup fuel; and propane shall be the backup fuel for boilers EP-2, EP-3, and EP-4. [R307-401-8]

II.B.2.b A flue gas recirculation system shall be used at all times with boilers EP-2, EP-3, and EP-4. [R307-401-8]

II.B.2.c An oxygen trim system shall be used at all times with boiler EP-4. [R307-401-8]

II.B.2.d For EP-4, a daily log shall be maintained that indicates operating status of the boiler, flue gas recirculation system, and oxygen trim system. [R307-401-8]

**Section III: APPLICABLE FEDERAL REQUIREMENTS**

In addition to the requirements of this AO, all applicable provisions of the following federal programs have been found to apply to this installation. This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including UAC R307.

NSPS (Part 60), Dc: Small Indus Com InstinSteam Generator  
NSPS (Part 60), A: General Provisions

**PERMIT HISTORY**

This AO is based on the following documents:

|                 |  |
|-----------------|--|
| Incorporates    | Additional Information dated July 26, 2010 |
| Incorporates    | Additional Information dated June 30, 2010 |
| Incorporates    | Additional Information dated June 22, 2010 |
| Incorporates    | Additional Information dated June 16, 2010 |
| Is Derived From | NOI dated June 14, 2010                    |
| Supersedes      | DAQE-AN2576002-04 dated April 14, 2004     |

**ADMINISTRATIVE CODING**

The following information is for UDAQ internal classification use only:

Cache County

CDS B

NSPS (Part 60), Nonattainment or Maintenance Area, Title V (Part 70) Area source

## ACRONYMS

The following lists commonly used acronyms and associated translations as they apply to this document:

|                   |   |
|-------------------|---|
| 40 CFR            | Title 40 of the Code of Federal Regulations                               |
| AO                | Approval Order  |
| BACT              | Best Available Control Technology   |
| CAA               | Clean Air Act   |
| CAAA              | Clean Air Act Amendments  |
| CDS               | Classification Data System (used by EPA to classify sources by size/type) |
| CEM               | Continuous emissions monitor  |
| CEMS              | Continuous emissions monitoring system                                    |
| CFR               | Code of Federal Regulations   |
| CO                | Carbon monoxide   |
| COM               | Continuous opacity monitor  |
| DAQ               | Division of Air Quality (typically interchangeable with UDAQ)             |
| DAQE              | This is a document tracking code for internal UDAQ use                    |
| EPA               | Environmental Protection Agency   |
| FDCP              | Fugitive Dust Control Plan  |
| HAP or HAPs       | Hazardous air pollutant(s)  |
| ITA               | Intent to Approve   |
| LB/HR             | Pounds per hour   |
| MACT              | Maximum Achievable Control Technology                                     |
| MMBTU             | Million British Thermal Units   |
| NAA               | Nonattainment Area  |
| NAAQS             | National Ambient Air Quality Standards                                    |
| NESHAP            | National Emission Standards for Hazardous Air Pollutants                  |
| NOI               | Notice of Intent  |
| NO <sub>x</sub>   | Oxides of nitrogen  |
| NSPS              | New Source Performance Standard   |
| NSR               | New Source Review   |
| PM <sub>10</sub>  | Particulate matter less than 10 microns in size                           |
| PM <sub>2.5</sub> | Particulate matter less than 2.5 microns in size                          |
| PSD               | Prevention of Significant Deterioration                                   |
| PTE               | Potential to Emit   |
| R307              | Rules Series 307  |
| R307-401          | Rules Series 307 - Section 401  |
| SO <sub>2</sub>   | Sulfur dioxide  |
| Title IV          | Title IV of the Clean Air Act   |
| Title V           | Title V of the Clean Air Act  |
| TPY               | Tons per year   |
| UAC               | Utah Administrative Code  |
| UDAQ              | Utah Division of Air Quality (typically interchangeable with DAQ)         |
| VOC               | Volatile organic compounds  |