

May 3, 2002

Mr. Paul Coburn
Whirlpool Corporation
5401 U.S. 41 North
Evansville, Indiana 47727

Re: 163-15849-00022
Third Administrative Amendment to
Part 70 T163-7467-00022

Dear Mr. Coburn:

Whirlpool Corporation was issued a permit on June July 13, 1999 for a stationary household refrigerators and ice makers manufacturing plant. A letter requesting a change in responsible official and changes to emission units and pollution control devises was received on April 15, 2002. Pursuant to the provisions of 2-7-11 the permit is hereby administratively amended as follows:

Due to a recent name change, appropriate references to Office of Air Management (OAM) were changed to reflect the new name of Office of Air Quality (OAQ).

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary household refrigerators and ice makers manufacturing plant.

Responsible Official: ~~Al Holaday~~ Paul Coburn
Source Address: 5401 U.S. 41 North, Evansville, Indiana 47727
Mailing Address: 5401 U.S. 41 North, Evansville, Indiana 47727
SIC Code: 3632 and 3585
County Location: Vanderburgh County
County Status: Attainment or Unclassifiable for all criteria pollutants
Source Status: Part 70 Permit Program
Major Source, under PSD
Major Source, Section 112 of the Clean Air Act

Mr. Paul Coburn, Division Vice President, replaces Mr. Al Holaday as the designated Responsible Official. Mr. Holaday was transferred to the corporate headquarters. Mr. Coburn meets the requirements of 326 IAC 2-7-1(34)(A)(iv).

Page 6 of 52, A.2 (c) was changed to eliminate the use of No. 2 distillate fuel-oil as back-up for Boiler No. 5. The installation permit became voided due to time constraints and the division never completed the capability to burn distillate fuel-oil. If a decision is made to convert in the future a new application will be submitted by Whirlpool Corporation.

Page 6 of 52, A.2 (e) was changed to reflect the equipment was shut down in late 2000 and the

equipment was removed in 2001.

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A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)]
[326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (c) One (1) natural gas fired boiler (Boiler No. 5) ~~with the capability to burn No. 2 distillate fuel oil as back-up~~, identified as EU7, rated at ninety-two and seven tenths million British thermal units per hour (92.7 MMBtu/hr), and exhausting to stack S7.
- (e) One (1) Black Paint System ~~(metal parts are being coated), identified as EU2, with a maximum capacity of one thousand one hundred and seventy-eight units per hour (1,178 units/hr), using baffles as control (flow coat paint booth only) and exhausting to stacks S2-1 and S2-2.~~ **was shut down in late 200 and equipment removed in 2001.**

Page 35 of 52, Section D.2, Facility Description (2), eliminated the use of No. 2 distillate fuel oil as a back-up for Boiler No. 5, identified as EU7.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (1) One (1) natural gas fired boiler (Boiler No. 2), identified as EU4, rated at eighty-five million British thermal units per hour (85 MMBtu/hr), and exhausting to stack S4. (August 1988)
- (2) One (1) natural gas fired boiler (Boiler No. 5), ~~with the capability to burn No.2 distillate fuel oil as back-up~~, identified as EU7, rated at ninety-two and seven-tenths million British thermal units per hour (92.7 MMBtu/hr), and exhausting to stack S7. (Inst. 1973, mod. 1997)
- (3) One (1) natural gas fired boiler (Boiler No. 3) with the capability to burn No. 2 fuel oil as back-up, identified as EU12, rated at thirty-three and five-tenths million British thermal units per hour (33.5 MMBtu/hr), and exhausting to stack S12. (Inst. 1997)

Page 35 of 52, Section D.2.2, line 3, deleted... the 92.7 MMBtu/hr natural gas-fired boiler (Boiler No. 5), and the..from the (SO₂ Emissions Limitations). The boiler is not capable of burning No. 2 distillate fuel oil as a back-up.

D.2.2 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations) the SO₂ emissions from the ~~92.7 MMBtu/hr natural gas fired boiler (Boiler No. 5), and the 33.5 MMBtu/hr natural gas fired boiler (Boiler No. 3),~~ when burning No. 2 distillate fuel oil, shall not exceed five-tenths (0.5) pounds per million Btu of heat input.

Page 35 of 52, Section D.2.4, line 3, deleted... and the 92.7 MMBtu/hr boiler (Boiler No. 5)... from the New Source Performance Standard (NSPS) since it is not capable of burning No. 2 distillate fuel oil as a back-up.

D.2.4 New Source Performance Standard (NSPS) [326 IAC 12 and 40 CFR 60]

Pursuant to 326 IAC 12 and 40 CFR 60.40c through 60.48c, Subpart Dc, the owner or operator of the 33.5 MMBtu/hr boiler (Boiler No. 3) ~~and the 92.7 MMBtu/hr boiler (Boiler No. 5)~~ shall not

discharge into the atmosphere:

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Page 36 of 52, Section D.2.6 (b), line 2, change ninety-two and seven-tenths to thirty-three and five-tenths and change 92.7 to 33.5. The no. 5 Boiler is not capable of burning No. 2 distillate fuel oil and therefore it does not need to be stack tested for sulfur dioxide emissions.

- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the ~~ninety-two and seven-tenths~~ **thirty-three and five-tenths** million British thermal units per hour (~~92.7 MMBtu/hr~~) **(33.5 MMBtu/hr)** heat input boiler, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

Pages 39 and 40 of Section D.3, were deleted and the pages were intentionally left blank. The Black Paint System was shut down in late 2000 and equipment was removed in 2001.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Gary Freeman, at (800) 451-6027, press 0 and ask for Gary Freeman or extension 3-5334, or dial (317) 233-5334.

Sincerely,

Original signed by
Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments: Replacement Pages
PD/gkf

cc: File - Vanderburgh County
Vanderburgh County Health Department
Air Compliance Section Inspector - Scott Anslinger
Compliance Data Section - Karen Nowak
IDEM Southwest Regional Office
Local Agency - Evansville EPA/Mindy Hahn
Contract Management - Duane Van Laningham
Enviroplan - 163-14885-00022
Permit Review Section 1 - Gary Freeman
Air Programs - Chet Bohannon

**PART 70 OPERATING PERMIT
and ENHANCED NEW SOURCE REVIEW (ENSR)
OFFICE OF AIR QUALITY
AND
CITY OF EVANSVILLE ENVIRONMENTAL
PROTECTION AGENCY**

**Whirlpool Corporation
5401 U.S. 41 North
Evansville, Indiana 47727**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T163-7467-00022	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Quality	Issuance Date: July 13, 1999 Expiration Date: July 13, 2004

First Significant Source Modification 163-11657-00022, issued April 28, 2000
First Administrative Amendment 163-11817-00022, issued April 27, 2000
First PSD/Significant Source Modification 163-12457-00022, issued February 7, 2001
Second Administrative Amendment 163-13859-00022, issued March 14, 2001
First Reopening 163-13511-00022, issued February 7, 2002

Third Administrative Amendment: 163-15849-00022	Pages Affected: 6, 35, 36, 39 and 40
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Issued by: Original signed by
Paul Dubenetzky, Branch Chief
Office of Air Quality

Issuance Date: **May 3, 2002**

SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) and City of Evansville Environmental Protection Agency. The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary household refrigerators and ice makers manufacturing plant.

Responsible Official: Paul Coburn
Source Address: 5401 U.S. 41 North, Evansville, Indiana 47727
Mailing Address: 5401 U.S. 41 North, Evansville, Indiana 47727
SIC Code: 3632 and 3585
County Location: Vanderburgh County
County Status: Attainment or Unclassifiable for all criteria pollutants
Source Status: Part 70 Permit Program
Major Source, under PSD
Major Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) Small Parts/Door Paint Line (metal parts are being coated), identified as EU3, with a maximum capacity of seven-hundred and twenty-five units per hour (725 units/hr), using baffles and dry filters as control, and exhausting to stacks S3-1 through S3-10. This process consist of six (6) paint areas and one (1) paint bake oven rated at ten million British thermal units per hour (10 MMBtu/hr).
- (b) One (1) natural gas fired boiler (Boiler No. 2), identified as EU4, rated at eighty-five million British thermal units per hour (85 MMBtu/hr), and exhausting to stack S4.
- (c) One (1) natural gas fired boiler (Boiler No. 5), identified as EU7, rated at ninety-two and seven-tenths million British thermal units per hour (92.7 MMBtu/hr), and exhausting to stack S7.
- (d) One (1) natural gas fired boiler (Boiler No. 3) with the capability to burn No. 2 distillate fuel oil as back-up, identified as EU12, rated at thirty-three and five-tenths million British thermal units per hour (33.5 MMBtu/hr), and exhausting to stack S12.
- (e) One (1) Black Paint System was shut down in late 2000 and equipment removed in 2001.
- (f) One (1) Thermoplastic Liner System, identified as EU1, with a maximum usage of eleven-

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Evansville, Indiana
Permit Reviewer: KERAMIDA/RMEH

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Amended by: Gary Freeman

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SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]:

- (1) One (1) natural gas fired boiler (Boiler No. 2), identified as EU4, rated at eighty-five million British thermal units per hour (85 MMBtu/hr), and exhausting to stack S4. (August 1988)
- (2) One (1) natural gas fired boiler (Boiler No. 5), identified as EU7, rated at ninety-two and seven-tenths million British thermal units per hour (92.7 MMBtu/hr), and exhausting to stack S7. (Inst. 1973, mod. 1997)
- (3) One (1) natural gas fired boiler (Boiler No. 3) with the capability to burn No. 2 fuel oil as back-up, identified as EU12, rated at thirty-three and five-tenths million British thermal units per hour (33.5 MMBtu/hr), and exhausting to stack S12. (Inst. 1997)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (PM Emission Limitations for Sources of Indirect Heating that were constructed after September 21, 1983) the allowable PM emission rate from the 85 MMBtu/hr boiler (Boiler No. 2), the 92.7 MMBtu/hr boiler (Boiler No. 5), the 33.5 million Btu per hour boiler (Boiler No. 3), shall not exceed twenty-seven hundredths 0.27 pounds per million British thermal units (lb/MMBtu).

This limitation is based on the following equation:

$$Pt = 1.09 / (Q^{0.26}) = 0.27 \text{ lb/MMBtu heat input}$$

where Pt = rate of emission in pounds per MMBtu heat input.
Q = total source maximum operating capacity in MMBtu/hr
Q = (85+33.5+92.7+1.527) = 212.727 MMBtu/hr

D.2.2 Sulfur Dioxide (SO₂) [326 IAC 7-1.1-1]

Pursuant to 326 IAC 7-1.1 (SO₂ Emissions Limitations) the SO₂ emissions from the 33.5 MMBtu/hr natural gas fired boiler (Boiler No. 3), when burning No. 2 distillate fuel oil, shall not exceed five-tenths (0.5) pounds per million Btu of heat input.

D.2.3 PSD Minor Modification Limit [326 IAC 2-2]

Pursuant to CP-163-8917-00022, issued on December 23, 1997, the input of No. 2 distillate fuel oil to the 33.5 MMBtu/hr boiler (Boiler No. 3) shall be limited to 1,100,000 gallons per 365 consecutive day period, rolled on a daily basis. This production limitation is equivalent to SO₂ emissions of 39 tons per 365 consecutive day period, rolled on a daily basis. Therefore, the PSD rules, 326 IAC 2-2, shall not apply.

During the first 365 days of operation, the No. 2 distillate fuel oil input shall be limited such that monthly fuel input to the 33.5 million Btu per hour boiler No. 3 shall not exceed 91,600 gallons.

D.2.4 New Source Performance Standard (NSPS) [326 IAC 12 and 40 CFR 60]

Pursuant to 326 IAC 12 and 40 CFR 60.40c through 60.48c, Subpart Dc, the owner or operator of the 33.5 MMBtu/hr boiler (Boiler No. 3) shall not discharge into the atmosphere:

- (a) SO₂ in excess of 0.5 pounds per million Btu heat input or, as an alternative, shall not combust in the boiler No. 2 distillate fuel oil that contains greater than 0.5 weight percent sulfur. If the owner or operator elects to demonstrate compliance with the sulfur content limit using fuel analysis, operation condition D.2.6 must be met;

Compliance Determination Requirements

D.2.5 Testing Requirements [326 IAC 2-7-6(1),(6)]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the Particulate Matter or SO₂ limits specified in Conditions D.2.1, D.2.2 and D.2.4 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.2.6 Sulfur Dioxide Emissions and Sulfur Content

Compliance shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the fuel oil sulfur content does not exceed five-tenths percent (0.5%) by weight by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a certification; or
 - (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples shall be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling; or
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions from the thirty-three and five-tenths million British thermal units per hour (33.5 MMBtu/hr) heat input boiler, using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to either of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

D.2.7 NSPS Testing Requirement

Pursuant to the NSPS, Subpart Dc, a compliance opacity test shall be performed on the 33.5 million Btu per hour boiler No. 3 within 60 days after burning No. 2 fuel oil as the back-up fuel. This test shall be performed according to 326 IAC 3-2.1 (Source Sampling Procedures) using the methods specified in the rule. This performance test shall be conducted in accordance with Section C - Performance Testing.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)][326 IAC 2-7-5(1)]

D.2.8 Visible Emissions Notations

- (a) Daily visible emission notations of the Boiler No. 3 and Boiler No. 5 stacks exhaust shall be performed during normal daylight operations when burning fuel oil and exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

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