



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live*

Frank O'Bannon  
Governor

Lori F. Kaplan  
Commissioner

October 1, 1999

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
[www.state.in.us/idem](http://www.state.in.us/idem)

Mr. Scott M. Darling  
ALCOA, Inc. - Warrick Operations  
P.O. Box 10  
Newburgh, Indiana 47629-0010

Re: 173-10913  
Modification to Operation Permits  
OP 87-07-91-0112 thru 0116

Dear Mr. Darling:

ALCOA, Inc. - Warrick Operations was issued five operation permits on July 11, 1990 for the horizontal direct chill casting (HDC) and electromagnetic casting (EMC). An opacity variance was granted to ALCOA, Inc. - Warrick Operations on May 8, 1998. An extension of this variance was granted on May 11, 1999 and effective until May 8, 2000. The alternate visible emission limit established for the source shall be incorporated, by amendment, into the operating permits for the source. The Operating Permits have been modified by replacing the existing opacity condition with the variance language as follows:

6. ~~That pursuant to 326 IAC 5-1-2(a)(1) visible emissions (VE) from the stacks of any of the listed facilities shall be limited to 40% opacity on a 6-minute average basis as determined by VE readings taken in accordance with 326 IAC 5-1-4.~~

Pursuant to 326 IAC 5-1-5(b):

(a) **#1 Complex (HDC)**

The alternate opacity limit (AOL) applies to the exhaust stacks from the East and West Holding furnaces. This AOL shall take the following form:

During fluxing, opacity may exceed the applicable opacity limit in 326 IAC 5-1-2 for no more than six (6) non-overlapping six-minute average opacity readings not to exceed 80% opacity, during fluxing only. During all other periods of the production cycle (not including the fluxing process), opacity shall not exceed the applicable limit pursuant to 326 IAC 5-1-2.

(b) **#8 Complex (EMC)**

The AOL applies to the exhaust stacks from the East and West Holding furnaces. This AOL shall take the following form:

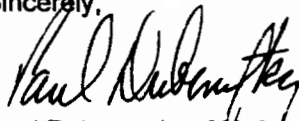
During fluxing, opacity may exceed the applicable opacity limit in 326 IAC 5-1-2 for no more than six (6) nonoverlapping six-minute average opacity readings; two (2) of these sets of six-minute averages shall not exceed 85% opacity and the remaining four (4) six-minute averages shall not exceed 80% opacity during fluxing only. During all other periods of the production cycle (not including the fluxing process), opacity shall not exceed the applicable limit pursuant to 326 IAC 5-1-2.

Pursuant to 326 IAC 5-1-5(b)(3), this modification will become effective when this modification has been approved by the U.S. EPA as a revision to the State Implementation Plan.

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 Kimberly Titzer, at (800) 451-6027, press 0 and ask for extension (3-8396), or dial (317) 233-8396.

Sincerely,



Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Management

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cc: File - Warrick County  
U.S. EPA, Region V  
Warrick County Health Department  
Southwest Regional Office  
Air Compliance Section Inspector - Dick Sekula  
Compliance Data Section - Karen Nowak  
Administrative and Development - Janet Mobley  
Technical Support and Modeling - Michele Boner  
Title V Permit File - T173-6627-00007  
Rules Section - Pat Troth