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**EPA**  
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COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF AIR QUALITY

PA090-06

**OPERATING PERMIT**

In accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and after due consideration of an application received under Chapter 127 of the rules and regulations of the Department of Environmental Protection, the Department hereby issues this permit for the operation of the air contamination source(s) described below.

Permit No.:	<u>OP-60-0003</u>	Source &	<u>two natural gas/#6 fuel</u>
Owner:	<u>National Gypsum Company</u>	Air	<u>oil-fired boilers</u>
		Cleaning	<u></u>
Address:	<u>P.O. Box 338</u>	Device:	<u></u>
	<u>Milton, PA 17847</u>		<u></u>
Attn:	<u>Mr. Lewis Erhardt</u>	Location:	<u>White Deer Township</u>
	<u>Plant Manager</u>		<u>Union County</u>

This permit is subject to the following conditions:

1. That the source(s) and any associated air cleaning device(s) are to be:
  - a. operated in such a manner as not to cause air pollution;
  - b. in compliance with the specifications and conditions of the applicable plan approval(s) issued;
  - c. operated and maintained in a manner consistent with good operating and maintenance practices.
2. This permit is valid only for the specific equipment, location and owner named above.

See attached for additional conditions.

Failure to comply with the conditions placed on this permit is a violation of Section 127.444. Violation of this or any other provision of Article III of the rules and regulations of the Department of Environmental Protection will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued: JAN 17 1996

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Ozone/Co & 127.444  
Section (SATE)

FEB 23 1996

EPA REGION III

  
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Environmental Program Manager

cc: Harrisburg  
File

## PERMIT CONDITIONS

PERMIT NO.: OP-60-0003

COMPANY: National Gypsum Company

LOCATION: White Deer Township, Union County

3. This operating permit incorporates Reasonably Available Control Technology (RACT) determinations as required by provisions of Title I of the Clean Air Act Amendments and 25 Pa. Code Sections 129.91 through 129.95 for a 162.5 million BTU/hour natural gas/#6 fuel oil-fired Babcock and Wilcox model D PF1 17-0-15 boiler (boiler #1) and a 68.9 million BTU/hour natural gas/#6 fuel oil-fired Babcock and Wilcox model FM-10-66 boiler (boiler #2). This operating permit supersedes operating permit 60-302-007.
5. Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, National Gypsum Company shall, with respect to boiler #1 identified above, implement the "Low Excess Air Combustion Modification/Fine Tune Process" which is identified in the RACT proposal and supplemental materials submitted by the company. Following said implementation, the nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) emissions from boiler #1 shall not exceed the following limitations whenever said boiler is being fired with natural gas:

### boiler operating rate

- all heat input rates up to and including 78 million BTU per hour
- all heat input rates above 78 million BTU per hour up to and including 128 million BTU per hour
- all heat input rates above 128 million BTU per hour

### NO<sub>x</sub> emission limit

- .16 pounds of NO<sub>x</sub> per million BTU of heat input
- .197 pounds of NO<sub>x</sub> per million BTU of heat input
- .22 pounds of NO<sub>x</sub> per million BTU of heat input

6. Pursuant to the RACT provisions of Section 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the nitrogen oxides (NO<sub>x</sub>, expressed as NO<sub>2</sub>) emissions from boiler #2 identified above shall not exceed .14 pounds of NO<sub>x</sub> per million BTU of heat input whenever said boiler is being fired with natural gas.

## **PERMIT CONDITIONS**

**PERMIT NO.:** OP-60-0003

**COMPANY:** National Gypsum Company

**LOCATION:** White Deer Township, Union County

7. Within 120 days of the issuance of this operating permit, and approximately every five years thereafter, both boiler #1 and boiler #2 shall be stack tested to determine compliance with the NOx emission rates specified in conditions 5 and 6 herein. This testing is to be performed using reference method test procedures acceptable to the Department.
8. At least 60 days prior to the performance of any testing required by condition 7 herein, the company shall submit a pre-test plan to the Department for evaluation. This plan shall describe the specific testing and analytical procedures to be used in performing the testing and the method to be used in determining heat input to the boilers during testing. This plan is to be accompanied by a dimensioned sketch of the stack(s) showing the proposed location of the sampling ports.
9. The Department shall be given at least 14 days advance notice of the specific dates and times for the performance of any testing required by condition 7 herein in order that Department personnel can arrange to be present. The Department is under no obligation to accept the results of any testing performed without adequate advance notice having been given to the Department.
10. Within 60 days of the completion of any testing required by condition 7 herein, two copies of a test report shall be submitted to the Department. This report shall contain the results of the testing (reported as pounds per million BTU of heat input), a description of the testing and analytical procedures actually used for the performance of the tests, a copy of all raw data generated during the tests and a copy of all calculations performed.
11. Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, annual tune-ups shall be performed upon both boiler #1 and boiler #2. These tune-ups shall, at a minimum, be performed in accordance with the same requirements as have been established for 20 through 50 million BTU per hour boilers in Sections 129.93(b)(2), (3) and (5) of the Department's Rules and Regulations. The first such tune-up shall occur no later than one year after the performance of the initial testing required by condition 7 herein.
12. The Department reserves the right to change the frequency of the stack testing required by condition 7 herein and/or the tune-ups required by condition 11 herein at any time.
13. Pursuant to the provisions of Section 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the company shall maintain comprehensive accurate records to demonstrate compliance with the requirements specified in, or established pursuant to, Sections 129.91 through 129.94. These records shall, at a minimum, include the annual tune-up recordkeeping data specified in Section 129.93(b)(3) and the following data for both boilers:

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## **PERMIT CONDITIONS**

**PERMIT NO.:** OP-60-0003

**COMPANY:** National Gypsum Company

**LOCATION:** White Deer Township, Union County

- daily fuel consumption
  - daily steam generation
  - flue gas oxygen content (continuous monitoring)
14. This operating permit does not authorize the operation of any nitrogen oxides air contaminant emission sources at the respective facility other than the two boilers identified herein. Additionally, the fact that this operating permit addresses only the respective two boilers is not in any way to be construed as a determination by the Department that these boilers are the only sources at the facility subject to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection.
  15. If at any time the permittee causes, permits or allows any modification (as that term is defined in Chapter 121 of Title 25, the Rules and Regulations of the Department of Environmental Protection) of the aforementioned air contamination source(s), the operation and use of which is authorized by this permit, the permit shall be suspended, and the permittee shall not thereafter continue to operate or use said air contamination source(s).
  16. These boilers are to be fired only on natural gas or #2, 4, 5, or 6 fuel oil to which there has been no reclaimed or waste oil or other waste materials added. Additionally, the sulfur content of any #4, 5 or 6 oil fired in these boilers shall not, at any time, exceed 2.8% (by weight) and the sulfur content of any #2 oil fired shall not exceed .5% (by weight).
  17. The company shall, upon Department request, provide fuel analyses, or fuel samples, of the fuel used in the aforementioned boiler(s).

