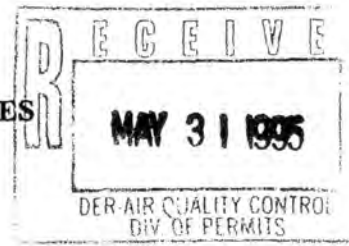


COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
BUREAU OF AIR QUALITY CONTROL



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 Resources, the Department hereby issues this permit for the operation of the air contamination source(s) described below.

Permit No.:	<u>OP-49-0004</u>	Source &	<u>woodwaste-fired cogeneration</u>
Owner:	<u>Viking Energy of Northumberland</u>	Air	<u>facility as described herein</u>
	<u>Limited Partnership</u>	Cleaning	<u></u>
Address:	<u>R.D.#2, Box 482D</u>	Device:	<u></u>
	<u>Northumberland, PA 17857</u>		<u></u>
Attn:	<u>Mr. John Jensen</u>	Location:	<u>Point Township</u>
	<u>Plant Manager</u>		<u>Northumberland County</u>

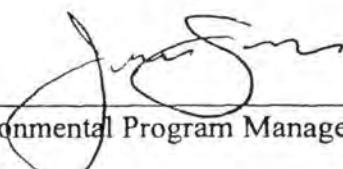
This permit is subject to the following conditions:

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 Resources will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued: MAY 30 1995



Environmental Program Manager

cc: Harrisburg
File

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- 3. This operating permit incorporates Reasonably Available Control technology (RACT) determinations as required by Title I provisions of the Clean Air Act Amendments and 25 PA Code 129.91 through 129.95 for a Zurn Travagrate woodwaste fired stoker boiler, a Detroit Diesel emergency generator and nineteen Sterling natural gas-fired heaters.
- 4. The expiration date shown in this permit is for state purposes. For Federal enforcement purposes the conditions of this operating permit which pertain to the implementation of the RACT regulations shall remain in effect as part of the State Implementation Plan (SIP) until replaced pursuant to 40 CFR 51 and approved by the U.S. Environmental Protection Agency (EPA). The operating permit shall become enforceable by the U.S. EPA upon its approval of the above as a revision to the SIP.
- 5. Pursuant to the RACT provisions of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Resources, the NOx (nitrogen oxides, expressed as NO₂) emission limit for the stoker boiler is established as follows:

<u>SOURCE</u>	<u>NOx EMISSION LIMIT</u>
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Stoker boiler	.25 pounds of NOx per million BTU of heat input (30 day rolling average) never to be exceeded
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This emission limitation shall be verified by a continuous emission monitoring system operated in accordance with condition 21 of this permit.

- 6. The sources mentioned below shall comply with the presumptive RACT requirement of Section 129.93 of Article III of the Rules and Regulations of the Department of Environmental Resources as follows:

<u>SOURCE</u>	<u>UNIT(S)</u>	<u>RACT REQUIREMENT</u>
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Sterling Heaters (Unit Heaters) (Each rated 100,000 Btu/hour)	19	25 PA Code Section 129.93(c)
Detroit Diesel Emergency Generator (415 horsepower, 6 cylinder, 1800 rpm)	1	25 PA Code Section 129.93 (c)

The presumptive RACT requirements for these sources are the maintenance and operation of the sources in accordance with the manufacturers' specifications. The heat input of each Sterling heater shall not exceed 100,00 BTU per hour. The emergency generator shall operate less than 500 hours in any consecutive 12-month period. The sources shall also be operated in accordance with good air pollution control practices.

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7. The company shall maintain records in accordance with the recordkeeping requirements of 25 PA Code Section 129.95.
 - a. The records shall provide sufficient data to clearly demonstrate that the requirements of conditions 5 and 6 are met.
 - b. Records shall be retained for at least 2 years and be made available to the Department upon request.
8. 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 Resources) of the aforementioned air contamination source(s), the operation and use of which is authorized by this permit, or causes, permits or allows any modifications, malfunction or removal of any air pollution control device required as a condition of this permit, then and in that event, this permit shall be suspended, and the permittee shall not thereafter continue to operate or use said air contamination source(s).
9. The aforementioned source(s) may be operated and used only so long as any associated air pollution control devices are operated and maintained in accordance with the specifications set forth in the respective plan approval(s), and the application(s) submitted for said plan approval(s) (as approved by the Department), and in accordance with any conditions set forth herein.
10. This operating permit is issued for the operation of a woodwaste-fired cogeneration facility consisting of a Zurn Travagrate spreader stoker boiler, the air contaminant emissions from which are controlled by an Environmental Elements Corporation electrostatic precipitator, and associated woodwaste and ash handling operations, the air contaminant emissions from which are controlled by water spray dust suppression systems and enclosures, and those additional air contaminant sources identified in condition 6 herein.
11. The woodwaste-fired boiler shall use only the following materials for fuel:
 - a. natural gas
 - b. woodwaste which does not contain, and is not contaminated by, wood preservatives, binders, paints, glues, plastic laminating materials or other non-wood materials.

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12. The combination of Proctor and Gamble and Milford Enterprises wastes shall not be burned at an average rate in excess of 2 tons per hour (annual average) or a maximum rate of 4 tons per hour (hourly average). Additionally, no more than 15,000 tons of combined Proctor and Gamble and Milford Enterprises wastes shall be burned per year.
13. Viking Energy shall maintain an accurate record of the date and size (weight) of each delivery of Proctor and Gamble and/or Milford Enterprises waste made to the Viking Energy cogeneration facility and shall report the data for each calendar quarter to the Department by the 20th day of the month following the respective calendar quarter (reports due on January 20, April 20, July 20 and October 20).
14. Viking Energy shall take a sample of the Proctor and Gamble waste from at least one truckload of the waste received at the Viking Energy cogeneration facility per month and shall have this sample analyzed for chlorine, ash, moisture and heat (BTU) content. The results of all analyses for a calendar quarter shall be submitted to the Department by the 20th day of the month following the respective calendar quarter (reports due on January 20, April 20, July 20 and October 20). The Department reserves the right to expand the list of parameters specified above as well as the right to require similar analyses for the Milford enterprises waste or any other waste stream used as boiler fuel.

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15. If, at any time, the Department notifies Viking that it has determined that Viking Energy is burning waste which does not meet the criteria specified in herein, Viking shall immediately cease acceptance of any additional deliveries of the said waste.

17. The peak total heat input (from the firing of all fuels combined) to the boiler shall not at any time equal or exceed 250,000,000 BTU/hour.

18. Pursuant to the best available technology provisions of Chapter 127 of Article III of the Rules and Regulations of the Department of Environmental Resources, the boiler is subject to the following air contaminant emission limitations with which it must comply:

nitrogen oxides (NOx)	– .25 pounds/million BTU heat input (30 day rolling average)
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19. The cogeneration facility shall not emit any air contaminant at a rate equal to or greater than 250 tons per calendar year (as calculated by the Department). This includes the air contaminant emissions resulting from the combustion of all fuels.

20. The company shall, upon Department request, provide fuel analyses, or fuel samples, of the fuel used in the aforementioned boiler.

21. The company shall maintain and operate continuous emission monitoring systems for opacity, nitrogen oxides and carbon monoxide on the cogeneration facility's boiler in accordance with all applicable requirements specified in Chapter 139 of the Rules and Regulations of the Department of Environmental Resources, the Department's "Continuous Source Monitoring Manual" and 40 CFR Part 60. This includes the performance of an acceptable System Performance/Relative Accuracy Test Audit on each of the monitoring systems at least once every year (but no less than six months after the previous such audit).

