

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DEC 07 2004

DIVISION OF AIR QUALITY

H.R. STRICKLER

AIR PERMIT NO. 1161R19

Issue Date: December 3, 2004

Effective Date: December 3, 2004

Expiration Date: December 1, 2009

Replaces Permit: 1161R18

To construct and operate air emission source(s) and/or air cleaning device(s), and for the discharge of the associated air contaminants into the atmosphere in accordance with the provisions of Article 21B of Chapter 143, General Statutes of North Carolina (NCGS) as amended, and other applicable Laws, Rules and Regulations,

**General Electric Company**  
**3901 Castle Hayne Road**  
**P O Box 780, M/C G26**  
**Wilmington, New Hanover County, North Carolina**  
**Fee Class: Synthetic Minor**  
**Site Number: 08/65/00070**

(the Permittee) is hereby authorized to construct and operate the air emissions sources and/or air cleaning devices and appurtenances described below:

Emission Source ID	Emission Source Description	Control System ID	Control System Description
ES-1	one SCO metal cleaning operation (ID No. SCO4)	CD-1	one packed, cross flow-type, wet scrubber and mist eliminator (ID No. E0007916; 250 gallons per minute nominal liquid injection rate)
ES-2	one large parts cleaning system (ID No. AE1)	CD-2	one cross-flow wet scrubber (ID No. 9122; 37.8 gallons of water per minute nominal injection rate)
ES-3	one large parts cleaning system (ID No. AE2)	CD-3	one cross-flow wet scrubber (ID No. 9121; 37.8 gallons of water per minute nominal injection rate)
ES-4	one lubricant application booth (ID No. AE3) and one curing oven (ID No. AE4)	N/A	N/A
ES-7	one coolant return fume hood (ID No. AE7)	CD-4	one mist eliminator system consisting of a centrifugal mist separator, a metal mesh coalescing filter (4.0 square feet of filter area nominal), and a bagfilter (110 square feet of filter area nominal)

Emission Source ID	Emission Source Description	Control System ID	Control System Description
ES-8	one automated parts washer (ID No. AE8)	CD-5	one packed-tower wet scrubber (ID No. 9050; 49.2 gallons of water per minute nominal injection rate) in FPI

in accordance with the completed application 6500070.04A received October 1, 2004 including any plans, specifications, previous applications, and other supporting data, all of which are filed with the Department of Environment and Natural Resources, Division of Air Quality (DAQ) and are incorporated as part of this permit.

This permit is subject to the following specified conditions and limitations including any TESTING, REPORTING, OR MONITORING REQUIREMENTS:

#### A. SPECIFIC CONDITIONS AND LIMITATIONS

1. Any air emission sources or control devices authorized to construct and operate above must be operated and maintained in accordance with the provisions contained herein. The Permittee shall comply with applicable Environmental Management Commission Regulations, including Title 15A North Carolina Administrative Code (NCAC), Subchapter 2D .0202, 2D .0515, 2D .0521, 2D .0535, 2D .0958, and 2Q .0315.
2. EMISSION INVENTORY REQUIREMENT - At least 90 days prior to the expiration date of this permit, the Permittee shall submit the air pollution emission inventory report in accordance with 15A NCAC 2D .0202, pursuant to N.C. General Statute 143 215.65. The report shall be submitted to the Regional Supervisor, DAQ. The report shall document air pollutants emitted for the 2008 calendar year. The Regional Office will send information on how to submit the emissions inventory, along with a reminder to renew your permit, about six months prior to your permit expiration. If you do not receive this information, please contact the Regional Supervisor, DAQ.
3. PARTICULATE CONTROL REQUIREMENT - As required by 15A NCAC 2D .0515 "Particulates from Miscellaneous Industrial Processes," particulate matter emissions from the emission sources shall not exceed allowable emission rates. The allowable emission rates are, as defined in 15A NCAC 2D .0515, a function of the process weight rate and shall be determined by the following equation(s), where P is the process throughput rate in tons per hour (tons/hr) and E is the allowable emission rate in pounds per hour (lbs/hr).
 
$$E = 4.10 * (P)^{0.67} \quad \text{for } P \leq 30 \text{ tons/hr, or}$$

$$E = 55 * (P)^{0.11} - 40 \quad \text{for } P > 30 \text{ tons/hr.}$$
4. VISIBLE EMISSIONS CONTROL REQUIREMENT - As required by 15A NCAC 2D .0521 "Control of Visible Emissions," visible emissions from the emission sources, manufactured after July 1, 1971, shall not be more than 20 percent opacity when averaged over a six-minute period, except that six-minute periods averaging not more than 87 percent opacity may occur not more than once in any hour nor more than four times in any 24-hour

period. However, sources which must comply with 15A NCAC 2D .0524 "New Source Performance Standards" or .1110 "National Emission Standards for Hazardous Air Pollutants", must comply with applicable visible emissions requirements contained therein.

5. NOTIFICATION REQUIREMENT - As required by 15A NCAC 2D .0535; the Permittee of a source of excess emissions that last for more than four hours and that results from a malfunction, a breakdown of process or control equipment or any other abnormal conditions, shall:

- a. Notify the Director or his designee of any such occurrence by 9:00 a.m. Eastern time of the Division's next business day of becoming aware of the occurrence and describe:
  - i. the name and location of the facility,
  - ii. the nature and cause of the malfunction or breakdown,
  - iii. the time when the malfunction or breakdown is first observed,
  - iv. the expected duration, and
  - v. an estimated rate of emissions.
- b. Notify the Director or his designee immediately when the corrective measures have been accomplished.

This reporting requirement does not allow the operation of the facility in excess of Environmental Management Commission Regulations.

6. WORK PRACTICES REQUIREMENTS - As required by 15A NCAC 2D .0958(c) "Work Practices for Sources of Volatile Organic Compounds," the Permittee shall adhere to the following required work practices:

- a. The Permittee shall:
  1. store all VOC-containing material not in use (including waste material) in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects.
  2. clean up spills as soon as possible following proper safety procedures.
  3. store wipe rags in closed containers.
  4. not clean sponges, fabric, wood, paper products, and other absorbent materials.
  5. drain solvents used to clean supply lines and other coating equipment into closable containers and close containers immediately after each use.

6. clean mixing, blending, and manufacturing vats and containers by adding cleaning solvent, closing the vat or container before agitating the cleaning solvent.
7. pour spent cleaning solvent into closable containers and close containers immediately after each use.
8. LIMITATION TO AVOID 15A NCAC 2Q .0501 - Pursuant to 15A NCAC 2Q .0315 "Synthetic Minor Facilities," to avoid the applicability of 15A NCAC 2Q .0501 "Purpose of Section and Requirement for a Title V Permit," as requested by the Permittee, facility-wide emissions shall be less than the following:

Pollutant	Emission Limit (Tons per consecutive 12-month period)
PM10	100

**Inspection and Maintenance Requirements**

- (a) All Permitted Fabric Filters that are in Operation

To comply with the provisions of this permit and ensure that the maximum control efficiency is maintained, the Permittee shall perform periodic inspections and maintenance as recommended by the manufacturer on all fabric filters that are in operation. These requirements are not specified for units that are not in operation.

An annual internal inspection shall be conducted on the bagfilters by the Permittee to insure the structural integrity such that the maximum control efficiency is achieved. The results of this inspection, and any maintenance performed on the bagfilter(s), shall be recorded in a logbook (written or electronic format), kept onsite, and made available to the DAQ upon request.

- (b) All Permitted Scrubbers that are in Operation

To comply with the provisions of this permit and ensure that the maximum control efficiency is maintained, the Permittee shall perform periodic inspections and maintenance as recommended by the manufacturer on all scrubbers that are in operation. As a minimum, the inspection and maintenance program will include inspection of spray nozzles, packing material, chemical feed system (if so equipped), and the cleaning/calibration of all associated instrumentation.

A logbook (written or electronic format) for each scrubber shall be kept onsite and made available to DAQ personnel upon request. Any variance from manufacturers' recommendations shall be investigated with corrections made and date of actions recorded in the logbook.

**B. GENERAL CONDITIONS AND LIMITATIONS**

1. REPORTS, TEST DATA, MONITORING DATA, NOTIFICATIONS, AND REQUESTS FOR RENEWAL shall be submitted to the:

Wayne Cook  
Regional Air Quality Supervisor  
North Carolina Division of Air Quality  
Wilmington Regional Office  
127 Cardinal Drive Extension  
Wilmington, NC 28405  
(910) 395-3900

2. RECORDS RETENTION REQUIREMENT - Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request. These records shall be maintained in a form suitable and readily available for expeditious inspection and review. These records must be kept on site for a minimum of 2 years, unless another time period is otherwise specified.
3. PERMIT RENEWAL REQUIREMENT - The Permittee, at least 90 days prior to the expiration date of this permit, shall request permit renewal by letter in accordance with 15A NCAC 2Q .0304(d) and (f). Pursuant to 15A NCAC 2Q .0203(i), no permit application fee is required for renewal of an existing air permit. The renewal request should be submitted to the Regional Supervisor, DAQ.
4. ANNUAL FEE PAYMENT - Pursuant to 15A NCAC 2Q .0203(a), the Permittee shall pay the annual permit fee within 30 days of being billed by the DAQ. Failure to pay the fee in a timely manner will cause the DAQ to initiate action to revoke the permit.
5. EQUIPMENT RELOCATION - A new air permit shall be obtained by the Permittee prior to establishing, building, erecting, using, or operating the emission sources or air cleaning equipment at a site or location not specified in this permit.
6. This permit is subject to revocation or modification by the DAQ upon a determination that information contained in the application or presented in the support thereof is incorrect, conditions under which this permit was granted have changed, or violations of conditions contained in this permit have occurred. The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air cleaning device(s) and appurtenances.
7. REPORTING REQUIREMENT - Any of the following that would result in previously unpermitted, new, or increased emissions must be reported to the Regional Supervisor, DAQ:
  - a. changes in the information submitted in the application regarding facility emissions;
  - b. changes that modify equipment or processes of existing permitted facilities; or
  - c. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

8. This permit is nontransferable by the Permittee. Future owners and operators must obtain a new air permit from the DAQ.
9. This issuance of this permit in no way absolves the Permittee of liability for any potential civil penalties which may be assessed for violations of State law which have occurred prior to the effective date of this permit.
10. This permit does not relieve the Permittee of the responsibility of complying with all applicable requirements of any Federal, State, or Local water quality or land quality control authority.
11. Reports on the operation and maintenance of the facility shall be submitted by the Permittee to the Regional Supervisor, DAQ at such intervals and in such form and detail as may be required by the DAQ. Information required in such reports may include, but is not limited to, process weight rates, firing rates, hours of operation, and preventive maintenance schedules.
12. A violation of any term or condition of this permit shall subject the Permittee to enforcement pursuant to G.S. 143-215.114A, 143-215.114B, and 143-215.114C, including assessment of civil and/or criminal penalties.
13. Pursuant to North Carolina General Statute 143-215.3(a)(2), no person shall refuse entry or access to any authorized representative of the DAQ who requests entry or access for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
14. The Permittee must comply with any applicable Federal, State, or Local requirements governing the handling, disposal, or incineration of hazardous, solid, or medical wastes, including the Resource Conservation and Recovery Act (RCRA) administered by the Division of Waste Management.

15. PERMIT RETENTION REQUIREMENT - The Permittee shall retain a current copy of the air permit at the site. The Permittee must make available to personnel of the DAQ, upon request, the current copy of the air permit for the site.
16. CLEAN AIR ACT SECTION 112(r) REQUIREMENTS - Pursuant to 40 CFR Part 68 "Accidental Release Prevention Requirements: Risk Management Programs Under the Clean Air Act, Section 112(r)," if the Permittee is required to develop and register a risk management plan pursuant to Section 112(r) of the Federal Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.
17. PREVENTION OF ACCIDENTAL RELEASES - GENERAL DUTY - Pursuant to Title I Part A Section 112(r)(1) of the Clean Air Act "Hazardous Air Pollutants - Prevention of Accidental Releases - Purpose and General Duty," although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release. **This condition is federally-enforceable only.**

Permit issued this the 3rd day of December, 2004.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION



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Wayne Cook, Regional Air Quality Supervisor  
Division of Air Quality

By Authority of the Environmental Management Commission