

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF AIR QUALITY

AIR PERMIT NO. 10040R00

Issue Date: January 8, 2010

Effective Date: January 8, 2010

Expiration Date: December 31, 2014

Replaces Permit: (new)

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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,

Apple, Inc.  
5977 Startown Road  
Maiden, Catawba County, North Carolina  
Permit Class: Synthetic Minor  
Facility ID# 1800557

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

<b>Emission Source ID</b>	<b>Emission Source Description</b>	<b>Control System ID</b>	<b>Control System Description</b>
G1 through G24 (NSPS, NESHAP)	twenty four (24) diesel-fired emergency generator (2490 kilowatt maximum engine capacity and 2250 kilowatt maximum generator capacity, each)	N/A	N/A

in accordance with the completed application 1800557.09A received December 23, 2009 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:

b. Diesel Fuel Requirements

- i. In accordance with 40 CFR 60.4207(a), the Permittee shall use diesel fuel with a sulfur content of less than 500 ppm beginning October 1, 2007.
- ii. In accordance with 40 CFR 60.4207(b), the Permittee shall use diesel fuel with a sulfur content of less than 15 ppm beginning October 1, 2010.
- iii. The emergency generators shall be certified to the emission standards listed above. The emergency generators shall be installed and configured according to the manufacturer's specifications. If the installed emergency generators are not certified to meet the emission standards listed above or they are not configured to the manufacturer's specifications, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

c. Operation Requirements

- i. In accordance with 60.4211(a), the Permittee shall operate and maintain the emergency generators according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer. In addition, the Permittee may only change those settings that are permitted by the manufacturer. The Permittee shall also meet the requirements of 40 CFR Parts 89, 94 and/or 1068, as they apply.
- ii. In accordance with 40 CFR 60.4211(e), the Permittee is allowed to operate the emergency generators for the purposes of maintenance checks and readiness testing, provided the tests are recommended by federal, state, or local government, the manufacturer, the vendor, or the insurance company associated with the engines. Maintenance checks and readiness testing are limited to 100 hours per year. Any operation of the emergency generators other than for emergency operation, maintenance, and readiness testing as permitted by this section, is prohibited.

d. Monitoring Requirements

- i. In accordance with 40 CFR 60.4209(a), the Permittee is required to install a non-resettable hour meter prior to startup of the emergency generators.

6. 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,

A. The facility-wide NOx emissions.

1. NOx emissions shall be calculated using the manufacturer's emission factors supplied with the initial permit application.
2. NOx emissions from each generator shall be calculated using the following formula:

$E = (\text{operating level}) \times (E.F.) \times (\text{hours operated}) \times (1.1 \times 10^{-6} \text{ ton/g})$ ,  
where

- a. *E* is the NOx emissions per generator, in tons;
- b. *operating level* is the recorded operating level of the engine, in kilowatts;
- c. *E.F.* is the next highest manufacturer's emission factor in grams per kilowatt-hour, based on the operating level;
- d. *hours operated* is the number of hours the generators operated at the operating level measured.

ii. Fuel supplier certification shall be kept on-site and made available to DAQ personnel upon request.

b. Reporting Requirements - Within 30 days after each calendar year, regardless of the actual emissions, the Permittee shall submit the following:

i. Emissions and/or operational data listed below. The data should include monthly and 12 month totals for the previous 12 month period.

A. The facility-wide NOx emissions.

**B. GENERAL CONDITIONS AND LIMITATIONS**

1. TWO COPIES OF ALL DOCUMENTS, REPORTS, TEST DATA, MONITORING DATA, NOTIFICATIONS, REQUESTS FOR RENEWAL, AND ANY OTHER INFORMATION REQUIRED BY THIS PERMIT shall be submitted to the:

Regional Air Quality Supervisor  
North Carolina Division of Air Quality  
Mooresville Regional Office  
610 East Center Avenue, Suite 301  
Mooresville, NC 28115  
(704) 663-1699

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.

11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.**
17. GENERAL EMISSIONS TESTING AND REPORTING REQUIREMENTS - If emissions testing is required by this permit, or the DAQ, or if the Permittee submits emissions testing to the DAQ in support of a permit application or to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 2D .2600 and follow all DAQ procedures including protocol approval, regional notification, report submittal, and test results approval.

**Insignificant / Exempt Activities**

Source	Exemption Regulation	Source of TAPs?	Source of Title V Pollutants?
I-DYTK - twenty four (24) diesel fuel day tanks (400 gallon capacity each)	2Q .0102 (c)(1)(D)(i)	Yes	Yes
I-UST - eight (8) diesel fuel underground storage tanks (40,000 gallon capacity each)	2Q .0102 (c)(1)(D)(i)	Yes	Yes

1. Because an activity is exempted from being required to have a permit or permit modification does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.
2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 2D .1100 "Control of Toxic Air Pollutants" or 2Q .0711 "Emission Rates Requiring a Permit."