

New York State Department of Environmental Conservation
Facility DEC ID: 9291100030



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 9-2911-00030/00321
Effective Date: 05/17/2006 Expiration Date: 05/16/2011

Permit Issued To: E I DUPONT DE NEMOURS & CO
1007 MARKET ST
WILMINGTON, DE 19898

Facility: DUPONT COMPANY
BUFFALO AVE & 26TH ST
NIAGARA FALLS, NY 14302-0787

Contact: CRAIG L WALKER
DUPONT SPECIALTY CHEMICALS
BUFFALO AVE & 26TH ST
NIAGARA FALLS, NY 14302-0787
(716) 278-5623

Description:

DuPont Company located at Buffalo Avenue and 26th Street in Niagara Falls, New York, has one primary production area: Sodium production. The Sodium area produces sodium and lithium metals by electrolysis in molten baths. Additionally, chlorine is produced as a by-product. The facility also has a support operation, namely, water treatment.

This permit is a renewal of the facility's existing Title V permit.

There are two emission units at the plant as follows:

U-NIT01 - Sodium Manufacturing Area produces sodium metal, lithium metal and chlorine as a by-product

U-NIT04 - Environmental Services treats liquid waste streams from the production areas.

The facility operation is permitted primarily under the following regulations:

- 1) 6 NYCRR Part 201-6 requires the facility to obtain a Title V permit.
- 2) 6 NYCRR Part 212 requires process sources to install air emission control devices depending on the type of contaminant emitted and the emission rate potential.

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By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: DAVID S DENK
 DIVISION OF ENVIRONMENTAL PERMITS
 270 MICHIGAN AVE
 BUFFALO, NY 14203-2999

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

Facility Inspection by the Department

Relationship of this Permit to Other Department Orders and Determinations

Applications for Permit Renewals and Modifications

Permit Modifications, Suspensions and Revocations by the Department

Facility Level

Submission of Applications for Permit Modification or Renewal -REGION 9
HEADQUARTERS



DEC GENERAL CONDITIONS

****** General Provisions ******

For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301.2(m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for Permit Renewals and Modifications
Applicable State Requirement: 6NYCRR 621.13

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 3.3:



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Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 4: Permit Modifications, Suspensions and Revocations by the Department
Applicable State Requirement: 6NYCRR 621.14

Item 4.1:

The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 5: Submission of Applications for Permit Modification or Renewal -REGION 9 HEADQUARTERS
Applicable State Requirement: 6NYCRR 621.5(a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 9 Headquarters
Division of Environmental Permits
270 Michigan Avenue
Buffalo, NY 14203-2999
(716) 851-7165



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ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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1007 MARKET ST
WILMINGTON, DE 19898

Facility: DUPONT COMPANY
BUFFALO AVE & 26TH ST
NIAGARA FALLS, NY 14302-0787

Authorized Activity By Standard Industrial Classification Code:
2819 - INDUSTRIAL INORGANIC CHEMICALS

Permit Effective Date: 05/17/2006

Permit Expiration Date: 05/16/2011



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6NYCRR 200.6: Acceptable Ambient Air Quality
- 8 6NYCRR 201-6.5(a)(7): Fees
- 15 6NYCRR 201-6.5(c): Recordkeeping and reporting of compliance monitoring
- 16 6NYCRR 201-6.5(c)(2): Monitoring, Related Recordkeeping, and Reporting Requirements.
- 17 6NYCRR 201-6.5(c)(3)(ii): Compliance Certification
- 18 6NYCRR 201-6.5(e): Compliance Certification
- 19 6NYCRR 202-2.1: Compliance Certification
- 20 6NYCRR 202-2.5: Recordkeeping requirements
- 14 6NYCRR 215: Open Fires Prohibited at Industrial and Commercial Sites
- 2 6NYCRR 200.7: Maintenance of Equipment
- 3 6NYCRR 201-1.7: Recycling and Salvage
- 4 6NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 5 6NYCRR 201-3.2(a): Exempt Sources - Proof of Eligibility
- 6 6NYCRR 201-3.3(a): Trivial Sources - Proof of Eligibility
- 7 6NYCRR 201-6.5(a)(4): Standard Requirement - Provide Information
- 9 6NYCRR 201-6.5(a)(8): General Condition - Right to Inspect
- 10 6NYCRR 201-6.5(d)(5): Standard Requirements - Progress Reports
- 11 6NYCRR 201-6.5(f)(6): Off Permit Changes
- 12 6NYCRR 202-1.1: Required Emissions Tests
- 13 6NYCRR 211.3: Visible Emissions Limited
- 21 40CFR 68: Accidental release provisions.
- 22 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 23 6NYCRR 201-6: Emission Unit Definition
- 24 6NYCRR 212.6(a): Compliance Certification

Emission Unit Level

- 25 6NYCRR 201-6: Emission Point Definition By Emission Unit
- 26 6NYCRR 201-6: Process Definition By Emission Unit

EU=U-NIT01,EP=20601,Proc=S06

- 27 6NYCRR 212.4: Compliance Certification

EU=U-NIT01,EP=30200,Proc=S02

- 28 6NYCRR 212.9(d): Compliance Certification

EU=U-NIT01,EP=30203,Proc=S05

- 29 6NYCRR 212.4(c): Compliance Certification

EU=U-NIT01,EP=30206,Proc=S04

- 30 6NYCRR 212.4(c): Compliance Certification



EU=U-NIT01,EP=30212,Proc=S01
31 6NYCRR 212.4: Compliance Certification

EU=U-NIT01,EP=44001,Proc=S03
32 6NYCRR 212.6(a): Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 33 ECL 19-0301: Contaminant List
- 34 6NYCRR 201-1.4: Unavoidable noncompliance and violations
- 35 6NYCRR 211.2: Air pollution prohibited

Emission Unit Level

EU=U-NIT01,Proc=S02
36 6NYCRR 212.9(b): Compliance Demonstration

EU=U-NIT04,Proc=EOA
37 6NYCRR 212.4: Compliance Demonstration



FEDERALLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

Item A: Emergency Defense - 6NYCRR Part 201-1.5

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated;

(3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

Item B: Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 201-1.10(b)

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to



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Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(a)(4)

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Item D: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item E: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR Part 201-6.5(a)(3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6NYCRR Part 201-6.5(a)(5)

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in

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order to maintain compliance with the conditions of this permit.

Item H: Property Rights - 6 NYCRR Part 201-6.5(a)(6)

This permit does not convey any property rights of any sort or any exclusive privilege.

Item I: Severability - 6 NYCRR Part 201-6.5(a)(9)

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item J: Permit Shield - 6 NYCRR Part 201-6.5(g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the

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Act;

iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item K: Reopening for Cause - 6 NYCRR Part 201-6.5(i)

This Title V permit shall be reopened and revised under any of the following circumstances:

i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit



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is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

Item L: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item M: Federally Enforceable Requirements - 40 CFR 70.6(b)

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.

Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 200.6

Item 1.1:

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit



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any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Condition 8: Fees

Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-6.5(a)(7)

Item 8.1:

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0302.

Condition 15: Recordkeeping and reporting of compliance monitoring

Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-6.5(c)

Item 15.1:

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.3 of this Part 201.

Condition 16: Monitoring, Related Recordkeeping, and Reporting Requirements.

Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-6.5(c)(2)

Item 16.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable



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regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

Condition 17: Compliance Certification
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-6.5(c)(3)(ii)

Item 17.1:

The Compliance Certification activity will be performed for the Facility.

Item 17.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

(1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.

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(2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.

(3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.3(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

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In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.5(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2006.
Subsequent reports are due every 6 calendar month(s).

Condition 18: Compliance Certification
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-6.5(e)

Item 18.1:

The Compliance Certification activity will be performed for the Facility.

Item 18.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the

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following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions;and
 - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.
- iv. All compliance certifications shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2

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Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

270 Michigan Avenue
Buffalo, NY 14203-2999

The address for the BQA is as follows:

NYSDEC
Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2007.
Subsequent reports are due on the same day each year

Condition 19: Compliance Certification
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 202-2.1

Item 19.1:

The Compliance Certification activity will be performed for the Facility.

Item 19.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission statements shall be submitted on or before April
15th each year for emissions of the previous calendar
year.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

Condition 20: Recordkeeping requirements
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 202-2.5



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Item 20.1:

(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 14: Open Fires Prohibited at Industrial and Commercial Sites
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 215

Item 14.1:

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, refuse, rubbish for salvage, or rubbish generated by industrial or commercial activities.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS SUBJECT
TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period. [NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]

Condition 2: Maintenance of Equipment
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 200.7

Item 2.1:

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

Condition 3: Recycling and Salvage
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-1.7

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Item 3.1:

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

Condition 4: Prohibition of Reintroduction of Collected Contaminants to the air

Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-1.8

Item 4.1:

No person shall remove, handle or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Condition 5: Exempt Sources - Proof of Eligibility

Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-3.2(a)

Item 5.1:

The owner and/or operator of an emission source or unit that is eligible to be exempt may be required to certify that it operates within the specific criteria described in this Subpart. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other State and Federal air pollution control requirements, regulations, or law.

Condition 6: Trivial Sources - Proof of Eligibility

Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-3.3(a)

Item 6.1:

The owner and/or operator of an emission source or unit that is listed as being trivial in this Part may be required to certify that it operates within the specific criteria described in this Subpart. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other State and Federal air pollution control requirements, regulations, or law.

Condition 7: Standard Requirement - Provide Information

Effective between the dates of 05/17/2006 and 05/16/2011



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Applicable Federal Requirement: 6NYCRR 201-6.5(a)(4)

Item 7.1:

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

Condition 9: General Condition - Right to Inspect
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-6.5(a)(8)

Item 9.1:

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

- (i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and
- (iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Condition 10: Standard Requirements - Progress Reports
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-6.5(d)(5)

Item 10.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

- (i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
- (ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any



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preventive or corrective measures adopted.

Condition 11: Off Permit Changes
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-6.5(f)(6)

Item 11.1:

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in section 6 NYCRR 201-6.6 shall not apply to any change made pursuant to this paragraph.

Condition 12: Required Emissions Tests
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 202-1.1

Item 12.1:

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time. Such person shall bear the cost of measurement and preparing the report of measured emissions. Failure of such person to submit a report acceptable to the commissioner within the time stated shall be sufficient reason for the commissioner to suspend or deny a certificate to operate.

Condition 13: Visible Emissions Limited
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 211.3

Item 13.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material



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having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Condition 21: Accidental release provisions.
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 40CFR 68

Item 21.1:

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
 - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
 - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center
C/O CSC
8400 Corporate Dr
Carrollton, Md. 20785

Condition 22: Recycling and Emissions Reduction
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 40CFR 82, Subpart F

Item 22.1:

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

The following conditions are subject to annual compliance certification requirements for Title V permits only.

Condition 23: Emission Unit Definition
Effective between the dates of 05/17/2006 and 05/16/2011



Applicable Federal Requirement: 6NYCRR 201-6

Item 23.1:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-NIT01

Emission Unit Description:

The Sodium Manufacturing Area emission unit, UNIT01, consists of the sources, processes, points, and buildings used in the production of sodium metal, lithium metal, and chlorine as a by-product. The emission unit consists of eight processes, two of which are activities with insignificant emissions.

Processes involving production (S02) and maintenance of the production cells (S01) are organized in a more complex manner. Alkali metal and chlorine are produced by electrolysis in a mixture of molten salts. The process takes place in vessels called cells (these are not mercury chlor-alkali cells). There are a maximum of 164 cells each having three ducts available for chlorine gas collection. A permanent duct collects the majority of the chlorine gas. Ordinarily, this chlorine is transported to a contiguous facility for liquefaction through a series of gas headers. The liquefaction facility is not under the control of Dupont. Alternatively, during maintenance activities associated with chlorine handling operations and equipment, chlorine is sent to two parallel scrubbers controlled by DuPont, emission points 30207 and 30208. A second duct from the top of the sodium cells is connected to a dust collection system. The production cells with these two vent systems constitute normal production and are identified as process S02. An optional duct can be used to connect the cells to the smoke duct scrubber, emission point 30212. This system is used for various cell startup, shutdown, process upset and maintenance activities identified as process S01. Emissions into the shop exhaust to the atmosphere through a series of 21 stacks. Historically, these stacks have been regulated as a single emission point (30200) by the NYSDEC. This precedent was retained in this application. With respect to applicable requirements for process S02, process weight was agreed upon in 1973 as the criteria for establishing allowable particulate emissions as a special case under Part 212.

Building(s): 11
12
13

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14
15
16
17
206
26
44
SH11121314

Item 23.2:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-NIT04

Emission Unit Description:

The Environmental Services emission unit, UNIT04, treats liquid waste streams from the production area. The operation in this unit is hypochlorite destruction. The emission unit consists of two processes; one of the processes is an activity with insignificant emissions. For this emission unit, each process consists of sources connected to a common emission point. This emission unit also consists of two emission points located in building 86.

Building(s): 86

Condition 24: Compliance Certification

Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 212.6(a)

Item 24.1:

The Compliance Certification activity will be performed for the Facility.

Item 24.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

NO PERSON SHALL CAUSE OR ALLOW EMISSIONS HAVING AN AVERAGE OPACITY DURING ANY SIX CONSECUTIVE MINUTES OF 20 PERCENT OR GREATER FROM ANY PROCESS EMISSION SOURCE, EXCEPT ONLY THE EMISSION OF UNCOMBINED WATER. COMPLIANCE WITH THIS REQUIREMENT SHALL BE DETERMINED BY THE FACILITY OWNER/OPERATOR CONDUCTING DAILY SURVEY

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(NON-METHOD 9 OBSERVATION,
NON-QUANTITATIVE OPACITY READING) OF
VISIBLE EMISSIONS FROM FACILITY SOURCES.
IF ANY ATYPICAL VISIBLE EMISSIONS ARE
IDENTIFIED, CORRECTIVE ACTION IS REQUIRED
AS APPROPRIATE FOR THE SOURCE. RECORDS
OF DAILY SURVEY OF VISIBLE EMISSIONS MUST
BE RETAINED FOR FIVE YEARS. THE
DEPARTMENT RESERVES THE RIGHT TO PERFORM
OR REQUIRE THE PERFORMANCE OF A METHOD 9
OPACITY EVALUATION BY FIRM
REPRESENTATIVE.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

****** Emission Unit Level ******

**Condition 25: Emission Point Definition By Emission Unit
Effective between the dates of 05/17/2006 and 05/16/2011**

Applicable Federal Requirement: 6NYCRR 201-6

Item 25.1:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-NIT01

Emission Point: 20601

Height (ft.): 31

Diameter (in.): 25

NYTMN (km.): 4777.52

NYTME (km.): 173.029

Building: 206

Emission Point: 30200

Height (ft.): 79

Diameter (in.): 293

NYTMN (km.): 4777.52

NYTME (km.): 173.029

Building: SH11121314

Emission Point: 30203

Height (ft.): 65

Diameter (in.): 30

NYTMN (km.): 4777.52

NYTME (km.): 173.029

Building: 26

Emission Point: 30206



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Height (ft.): 50	Diameter (in.): 16	
NYTMN (km.): 4777.52	NYTME (km.): 173.029	Building: 16
Emission Point: 30207		
Height (ft.): 69	Diameter (in.): 6	
NYTMN (km.): 4777.52	NYTME (km.): 173.029	Building: 26
Emission Point: 30208		
Height (ft.): 69	Diameter (in.): 6	
NYTMN (km.): 4777.52	NYTME (km.): 173.029	Building: 26
Emission Point: 30212		
Height (ft.): 99	Diameter (in.): 24	
NYTMN (km.): 4777.52	NYTME (km.): 173.029	Building: 11
Emission Point: 30215		
Height (ft.): 15	Diameter (in.): 5	
NYTMN (km.): 4777.52	NYTME (km.): 173.029	Building: 16
Emission Point: 30217		
Height (ft.): 74	Diameter (in.): 4	
NYTMN (km.): 4777.52	NYTME (km.): 173.029	Building: 26
Emission Point: 44001		
Height (ft.): 69	Diameter (in.): 20	
NYTMN (km.): 4777.52	NYTME (km.): 173.029	Building: 44

Item 25.2:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-NIT04

Emission Point: 46001		
Height (ft.): 64	Diameter (in.): 6	
NYTMN (km.): 4777.52	NYTME (km.): 173.029	Building: 86

Emission Point: 86005		
Height (ft.): 29	Diameter (in.): 6	
NYTMN (km.): 4777.52	NYTME (km.): 173.029	Building: 86

Condition 26: Process Definition By Emission Unit
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 201-6

Item 26.1:

This permit authorizes the following regulated processes for the cited Emission Unit:

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Emission Unit: U-NIT01

Process: S01

Source Classification Code: 3-01-999-99

Process Description:

Sodium metal, lithium metal and chlorine as a by-product are produced by electrolysis in a mixture of molten salts. The process takes place in vessels called cells. There are up to 164 cells in this process. Emissions occurring during cell maintenance are exhausted through a separate control system, referred to as the Smoke Duct Scrubber (S0101). Activities associated with this process include but may not be limited to diaphragm changes, new cell start-ups and process upsets. There are different requirements that apply to the cells during maintenance operations than apply during normal production (See process S02). The process spans bldgs. 11-15.

Emission Source/Control: S0101 - Control

Control Type: VENTURI SCRUBBER

Emission Source/Control: S0102 - Control

Control Type: PACKED-GAS ABSORPTION SYSTEM

Emission Source/Control: S0201 - Process

Item 26.2:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-NIT01

Process: S02

Source Classification Code: 3-01-999-99

Process Description:

Sodium metal, lithium metal and chlorine as a by-product are produced by electrolysis in a mixture of molten salts. The process takes place in vessels called cells. There are up to 164 cells in the process. The process spans bldgs. 11-15 and 26. Each cell has various ducts available for off gas collection. A permanent duct collects the majority of the chlorine gas. The chlorine is transported to a contiguous facility for liquefaction through a series of gas headers. The liquefaction facility is not under the control of Dupont. Alternatively, chlorine can be diverted during maintenance activities associated with chlorine handling operations and equipment to two parallel scrubbers that are controlled by Dupont, emission sources S0203 (emission point 30207) and S0204 (emission point 30208). Sodium cells have another duct connected to a dust collection



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system (S0202) that ventilates inside the building. The production cells and these duct systems constitute normal production and are identified as process SO2. Emissions into the shop exhaust to the atmosphere through a series of fans.

Emission Source/Control: S0202 - Control
Control Type: FABRIC FILTER

Emission Source/Control: S0203 - Control
Control Type: WET SCRUBBER

Emission Source/Control: S0204 - Control
Control Type: WET SCRUBBER

Emission Source/Control: S0201 - Process

Item 26.3:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-NIT01

Process: S03

Source Classification Code: 3-01-999-99

Process Description:

Sodium metal is recovered from filter residue. Sodium chloride and calcium chloride are added to the residue and heated in pots to liberate the sodium metal. Smoke generated at various phases of the operation is scrubbed by emission source, S0304, before discharge to the atmosphere. The pots are heated by natural gas fired burners that have a maximum capacity of less than 10 million BTU/hr and exhaust through two separate flue vents. These vents are exempt from permitting per 6 NYCRR 201-3.2(c)(1).

Emission Source/Control: S0304 - Control
Control Type: WET SCRUBBER

Emission Source/Control: S0301 - Process

Emission Source/Control: S0302 - Process

Emission Source/Control: S0303 - Process

Emission Source/Control: S0305 - Process

Emission Source/Control: S0306 - Process



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Emission Source/Control: S0307 - Process

Emission Source/Control: S0308 - Process

Emission Source/Control: S0309 - Process

Item 26.4:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-NIT01

Process: S04

Source Classification Code: 3-05-021-02

Process Description:

Salt dryer (natural gas) fired 5 mmBTU/hr capacity) The salt dryer removes traces of moisture from salt fed to the Sodium Shop. Exhaust gases pass through a cyclone (S0402), then a reverse-jet scrubber (S0403), and finally a wetted deep-bed filter (S0404). Cleaned gases leaving the filter vent to the atmosphere.

Emission Source/Control: S0402 - Control

Control Type: WET SCRUBBER

Emission Source/Control: S0403 - Control

Control Type: SINGLE CYCLONE

Emission Source/Control: S0404 - Control

Control Type: LIQUID FILTRATION SYSTEM

Emission Source/Control: S0401 - Process

Design Capacity: 5 million Btu per hour

Item 26.5:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-NIT01

Process: S05

Source Classification Code: 3-01-999-99

Process Description:

When reusable mechanical parts are taken out of service, they are taken to a burning room where sodium and lithium contamination is burned off to render the parts safe for maintenance. The resultant smoke is exhausted through a scrubber, emission source, S0502 (emission point 30203).

Emission Source/Control: S0502 - Control

Control Type: WET SCRUBBER

Emission Source/Control: S0501 - Process

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Item 26.6:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-NIT01

Process: S06

Source Classification Code: 3-01-999-99

Process Description:

The cell base hood provides ventilation during decontamination performed prior to maintenance of reusable cell bases containing residual amounts of contact alloy. During the decontamination process the alloy is heated to its melt point. During melting a small amount of lead is vaporized and exhausted by emission source, S0601 (emission point 20601)).

Emission Source/Control: S0601 - Process

Item 26.7:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-NIT01

Process: S07

Source Classification Code: 3-09-001-99

Process Description:

A container of solidified contact alloy is melted under a fume hood. The alloy is then poured into the void space between the anode and cathode during the cell building operation.

Emission Source/Control: S0701 - Process

Item 26.8:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-NIT01

Process: S08

Source Classification Code: 3-99-999-94

Process Description:

The equipment decontamination wastewater neutralization tank collects wash water from the wash tanks where the pH is adjusted using sulfuric acid in order to meet the POTW discharge permit limit.

Emission Source/Control: S0801 - Process

Item 26.9:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-NIT04



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Process: EOA

Source Classification Code: 3-01-820-03

Process Description:

Hypochlorite Destruction Sodium hypochlorite is destroyed by reacting it with urea. More than 99% of the reaction takes place in the first reactor. A caustic scrubber (E0102) abates emergency chlorine releases, but does not abate normal chlorine emissions.

Emission Source/Control: E0102 - Control

Control Type: WET SCRUBBER

Emission Source/Control: E0101 - Process

Emission Source/Control: E0103 - Process

Item 26.10:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-NIT04

Process: EOB

Source Classification Code: 3-01-830-01

Process Description:

Urea Hold Tank Storage of a solution of urea dissolved in water.

Emission Source/Control: E0201 - Process

Condition 27: Compliance Certification

Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 212.4

Item 27.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-NIT01 Emission Point: 20601

Process: S06

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 27.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The cell base hood provides ventilation during reclamation of Arconium metal. When a cell is taken out

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of service, the base of the cell containing Arconium metal is taken to the reclamation unit. The base is heated and the alloy is melted, collected, and solidified. During melting, a small amount of lead is vaporized. Total particulate emissions have been calculated to be 0.014 grains/DSCF, which is less than the limit of 0.050 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis, specified by 6NYCRR 212.4(c).

The permissible emission rate for lead from these facilities was established in the Special Conditions of Certificate to Operate, EP-20601, issued 01/20/93, as follows. Melting operation is limited to one (1) hour per day for 59 days per year. Total particulate includes 0.003 grains per dry standard cubic feet of lead. Permissible emission of lead is limited to 0.003 grains per dry standard cubic feet.

The owner/operator must maintain an operating log including the times of operation of the cell base hood. The owner/operator must maintain calculations of emission rates of lead and total particulates. All records must be retained for at least five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 28: Compliance Certification
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 212.9(d)

Item 28.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-NIT01 Emission Point: 30200
Process: S02

Item 28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Sodium cell room general ventilation is required to provide cooling for up to 164 cells producing either



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sodium or lithium and the employees working around the cells. The ventilation system spans buildings 12-15. Good operating and maintenance practices are required to minimize uncontrolled particulate emissions generated as smoke and salt dust as well as fugitive chlorine emissions from cell operations. These emissions are discharged from emission source S0201 (emission point 30200).

Chlorine emissions are measured near the entrance of representative exhaust stack positions, just below roof level. They are located above the sodium cells adjacent to "representative" exhaust stacks. These sensor signals are monitored in the area's distributed computer system (DCS). Additionally, the number of exhaust fans in operation is manually counted and monitored on the DCS. The chlorine concentration from the chlorine sensors and the estimated fan flow capacities are combined in a calculation to determine the instantaneous chlorine emission flow rate, projected hourly rates, and a running hourly total. The running hourly total is constantly compared to DuPont's "internal" general ventilation chlorine emission criteria. A DCS alarm is activated and a report is generated should the rate exceed the criteria.

The system is under constant operator attention. In addition, all potential problems are communicated immediately to the shift supervisor.

Based on an agreement with the Department made in 1973, the particulate limit is based on the process weight limits in 6NYCRR 212.9(d), Table 4, as a special case unlisted in Part 212.9(e), Table 5, but analogous to listed similar industries. Sodium cells have a duct connected to a dust collection system (S0202), including sodium shop dust collectors that ventilate inside the building. Dust collector identification numbers are A12, A13, B12, B13, C12, C13, D12, D13, E12, E13, F12, and F13. Dust collectors C12 and D12 are out of service at the current production rate, but will be placed on line if needed. The number of operating dust collectors will be adjusted as appropriate to match the production rate.

These dust collectors must be operating when the process is in operation, with a collective daily average up-time of the operating dust collectors of at least 90 percent. Records must be kept of up-time for the group of operating dust collectors. Pressure change devices on each operating dust collector must also be functioning whenever



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the process is in operation. Delta pressure changes measured in inches of water are intended to be indicators that the particulate limit for EP 30200 is being achieved. The delta pressure range for all operating dust collectors is between 2" and 10" of water. The delta pressure change of each operating dust collector must be monitored by DuPont personnel once per shift whenever the process is in operation. Operation of a dust collector outside of the appropriate delta pressure range shall trigger investigation of collection performance by appropriate DuPont personnel. Records of monitoring for the S0202 dust collectors must be retained for five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 29: Compliance Certification
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 212.4(c)

Item 29.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-NIT01 Emission Point: 30203
Process: S05

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

When reusable mechanical parts are taken out of service, they are taken to a burning room where sodium and lithium contamination is burned off to render the parts safe for maintenance. The resultant smoke is exhausted through a scrubber, emission source, S0502 (emission point 30203). Water flow and pressure drop are monitored and correlated with scrubber efficiency to verify compliance with the particulate emission limit of 0.05 grains/dscf. The pressure drop across the scrubber is monitored by



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appropriate Dupont personnel prior to the start and at the end of each burn. The pressure range shall be 33-55 inches of water. Records of the monitoring shall be retained for five years.

Parameter Monitored: VOLUMETRIC FLOW RATE

Lower Permit Limit: 80 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 30: Compliance Certification

Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 212.4(c)

Item 30.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-NIT01 Emission Point: 30206
Process: S04

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 30.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The Salt Dryer (natural gas fired) removes traces of moisture from the salt feed to the Sodium Shop. Exhaust gases pass through a cyclone (S0403), which is in place for yield recovery purposes and not particulate control, then a reverse-jet scrubber (S0402), and finally a wetted deep-bed filter (S0404). Cleaned gases leaving the filter vent to the atmosphere. Water pressure feed (value from previous stack test) is monitored and correlated with scrubber efficiency to verify compliance with the particulate emission limit of 0.05 grains/dscf. Water pressure and flow are continuously monitored by the DCS.

Parameter Monitored: PRESSURE

Lower Permit Limit: 20 pounds per square inch gauge

Monitoring Frequency: CONTINUOUS

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED



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VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 31: Compliance Certification

Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 212.4

Item 31.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-NIT01 Emission Point: 30212
Process: S01

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Smoke Duct Scrubber (Venturi and Packed Tower) removes emissions of particulate matter consisting of sodium oxide, sodium chloride, calcium chloride, barium chloride, lithium chloride, lithium hydroxide, potassium chloride and gaseous emissions of chlorine with a caustic circulating medium during sodium cell maintenance. Caustic recirculation flow rate must be monitored whenever there are cells on stack to ensure proper cleaning. Whenever cells are on stack caustic flow is to be at a minimum of 60 GPM (hourly average) going to the venturi to ensure compliance with the particulate emission limit of 0.05 gr/dscf. In addition, there is a minimum of 100 GPM (hourly average) flow to the packed tower to ensure a greater than 99% removal efficiency of chlorine gas. Also, the delta P across the venturi is to be a minimum of 26" water (hourly average).

Parameter Monitored: VOLUMETRIC FLOW RATE

Lower Permit Limit: 160 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 32: Compliance Certification



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Effective between the dates of 05/17/2006 and 05/16/2011

Applicable Federal Requirement: 6NYCRR 212.6(a)

Item 32.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-NIT01 Emission Point: 44001
Process: S03

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Sodium recovery operation. Sodium metal is recovered from filter residue. Sodium chloride and calcium chloride are added to the residue and heated in pots to liberate the sodium metal. Smoke, generated at various phases of the operation, is scrubbed to remove sodium oxide particulate before discharge to the atmosphere. The pots are heated by natural gas fired burners which have a maximum capacity of less than 10 million BTU/hr, exhaust through a separate flue vent, and are exempt from permitting per 6 NYCRR 201-3.2(c)(1). Water flow rate and pressure drop must be monitored and recorded to maintain compliance with the opacity requirements of 6 NYCRR Part 212.6a. Note: Particulate matter ERP was determined to be less than 0.02 gr/dscf per stack testing.

Lower monitoring limits as follow apply:

Recirculation Flow: 35 GPM

Differential Pressure: 33" water column

Monitoring frequency:

Recirculation Flow: Continuous

Venturi Differential Pressure: Continuous

Parameter Monitored: VOLUMETRIC FLOW RATE

Lower Permit Limit: 35 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



STATE ONLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 33: Contaminant List
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Applicable State Requirement: ECL 19-0301

Item 33.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this



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permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 007782-50-5

Name: CHLORINE

CAS No: 0NY075-00-0

Name: PARTICULATES

Condition 34: Unavoidable noncompliance and violations
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable State Requirement: 6NYCRR 201-1.4

Item 34.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.



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(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 35: Air pollution prohibited
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable State Requirement: 6NYCRR 211.2

Item 35.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

****** Emission Unit Level ******

Condition 36: Compliance Demonstration
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable State Requirement: 6NYCRR 212.9(b)

Item 36.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-NIT01
Process: S02

Regulated Contaminant(s):
CAS No: 007782-50-5 CHLORINE

Item 36.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
East chlorine absorption tower Emission Source S0203



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(Point 30207) and West chlorine absorption tower Emission Source S0204 (Point 30208) are countercurrent flow-packed scrubbers. They continuously circulate caustic solution to neutralize chlorine "sniff" or sample gas extracted from sodium cell operation. They are also available as emergency scrubbers to neutralize the full chlorine gas production of the Sodium Shop in case of process upsets. Previous stack tests indicated greater than 99% chlorine removal efficiency as required by 6NYCRR 212.9(b). Only one scrubber must be in operation at a time with the other as a standby unit. Each scrubber has a chlorine analyzer that continuously monitors the chlorine concentration at the top of the tower by means of a pump continuously drawing in sample gas from the top of the chlorine tower, except during calibration periods of approximately 5 minutes every hour.

The concentration of chlorine at the top of tower, as measured by the chlorine analyzer, must be less than 466 ppm (volume percent). This is a 99.99% removal efficiency.

Manufacturer Name/Model Number: DUPONT
Parameter Monitored: CONCENTRATION
Upper Permit Limit: 466 parts per million (by volume)
Reference Test Method: ANALYZER
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 37: Compliance Demonstration
Effective between the dates of 05/17/2006 and 05/16/2011

Applicable State Requirement: 6NYCRR 212.4

Item 37.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-NIT04
Process: EOA

Regulated Contaminant(s):
CAS No: 007782-50-5 CHLORINE

Item 37.2:

Compliance Demonstration shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Sodium hypochlorite is destroyed in two reactors in series by reacting it with urea. More than 99% of the reaction takes place in the first reactor. A caustic scrubber abates emergency chlorine releases. Because the scrubber is only activated during emergency chlorine releases, it does not abate normal chlorine emissions. The scrubber system must be operated according to good operation and maintenance practices to ensure that all equipment is ready for emergency operation. The scrubber has a chlorine analyzer that continuously monitors the chlorine concentration at the top of the scrubber, except during calibration periods of approximately 5 minutes every hour. In the event that the exit chlorine concentration exceeds 50 ppm, an interlock automatically opens a valve to feed caustic to the scrubber. The exit chlorine concentration must be reduced to below 50 ppm within 10 minutes. Records must be kept for five years of the chlorine concentration readings from the analyzer.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY