



New York State Department of Environmental Conservation
Permit Review Report

Permit ID: 3-1346-00019/00013

Renewal Number: 3

10/12/2016

Facility Identification Data

Name: DUTCHESS CO RESOURCE RECOVERY FACILITY

Address: 96 SAND DOCK RD

POUGHKEEPSIE, NY 12601

Owner/Firm

Name: DUTCHESS CO RESOURCE RECOVERY AGENCY

Address: 96 SAND DOCK RD

POUGHKEEPSIE, NY 12601-5444, USA

Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:

Name: DENSFORD D ESCARPETA

Address: NYSDEC - WHITE PLAINS SUBOFFICE

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WHITE PLAINS, NY 10603

Phone:9143428250

Division of Air Resources:

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WHITE PLAINS, NY 10603

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Air Permitting Contact:

Name: Lindsay Carille

Address: 96 Sand Dock Rd

Poughkeepsie, NY 12601

Phone:8454636020

Permit Description

Introduction

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

Summary Description of Proposed Project

Application for renewal of Air Title V permit.

Attainment Status



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DUTCHESS CO RESOURCE RECOVERY FACILITY is located in the town of POUGHKEEPSIE in the county of DUTCHESS.

The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter < 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	MODERATE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

** NOx has a separate ambient air quality standard in addition to being an ozone precursor.

Facility Description:

The Dutchess County Recovery Facility located in Poughkeepsie, New York is a Class 1 Small Municipal Waste Combustor facility. The facility has two O'Connor Rotary mass burn waterwall type combustors each capable of combusting 228 tons per day of municipal solid waste (MSW), recovering energy as steam in the two boilers, which have the capability to produce 115,800 lb/hour of steam at 625 psig and 700 degree Fahrenheit. The steam is used to drive a 9.2 MW turbine generator. Excess electricity is sold to Central Hudson Gas & Electric Corporation. The primary fuel combusted is MSW which also may be combusted with authorized Treated Regulated Medical Waste (TRMW) and Treated and Destroyed Regulated Medical Waste (TDRMW). During startup and shutdown, natural gas is fired to maintain minimum flue gas temperature. In addition, natural gas may also be used during periods of malfunction and upset conditions. Similar to the use of natural gas for startup, shutdown, malfunction and upset conditions, waste fuel oil is also authorized in accordance to 6-NYCRR Part 225-2 and associated permit conditions. The primary SIC is 4953.

Air pollution control equipment at the facility includes a spray dry absorber for acid gas control, fabric filters for particulate removal, and a carbon injection system for mercury and total dioxin control. The permittee may elect to not operate the carbon injection system(s) if annual stack test results demonstrate compliance with Subpart BBBB mercury and total dioxin emission limits without the operation of the carbon injection system(s). An overfire air system has been installed for both units for carbon monoxide control. The facility has a Continuous Emissions Monitoring System (CEMs).

The facility is subjected to 40 CFR 60 Subpart BBBB, Emissions Guidelines for Small Municipal Waste Combustors, and 6 NYCRR Part 219, Incinerators.

Permit Structure and Description of Operations

The Title V permit for DUTCHESS CO RESOURCE RECOVERY FACILITY and process. A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is



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subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device. [NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants that is not included in the above categories.

DUTCHESS CO RESOURCE RECOVERY FACILITY is defined by the following emission unit(s):

Emission unit 1MBMWC -

Emission unit 1MBMWC is associated with the following emission points (EP):
FLUE1, FLUE2

Process: MSW is located at GROUND, Building PROBDG - Two municipal waste combustors (MSW), each capable of combusting 228 tons per day of MSW (166,440 tons per year). MSW includes household waste, nonhazardous commercial and industrial wastes, pharmaceuticals, documents, expired or unmarketable consumer goods, combustible construction and demolition debris and Treated Regulated Medical Waste (TRMW) and Treated and Destroyed Regulated Medical Waste (TDRMW).

Process: STS is located at GROUND, Building PROBDG - Two (2) MSW combustors firing natural gas during startup, shutdown, malfunction and upset conditions.

Process: WFA is located at GROUND, Building PROBDG - Two (2) MSW combustors firing Waste Fuel Oil during startup, shutdown, malfunction and upset conditions.

Title V/Major Source Status

DUTCHESS CO RESOURCE RECOVERY FACILITY is subject to Title V requirements. This determination is based on the following information:

Dutchess CO Resource Recovery Facility is subject to Title V requirements. This determination is based on the following contaminants potential emission rate:

CO \geq 100 and $<$ 250 TPY
SO₂ \geq 100 and $<$ 250 TPY
NO_X \geq 250 TPY
HCL \geq 10 TPY
HAP \geq 50 and $<$ 100 TPY

Program Applicability



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The following chart summarizes the applicability of DUTCHESS CO RESOURCE RECOVERY FACILITY with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	YES
NSR (non-attainment)	NO
NESHAP (40 CFR Part 61)	NO
NESHAP (MACT - 40 CFR Part 63)	NO
NSPS	NO
TITLE IV	NO
TITLE V	YES
TITLE VI	NO
RACT	NO
SIP	YES

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52, 6 NYCRR 231-7, 231-8) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR New Source Review (6 NYCRR 231-5, 231-6) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NESHAP National Emission Standards for Hazardous Air Pollutants (40 CFR 61, 6 NYCRR 200.10) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's).

MACT Maximum Achievable Control Technology (40 CFR 63, 6 NYCRR 200.10) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

NSPS New Source Performance Standards (40 CFR 60, 6 NYCRR 200.10) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

Title IV Acid Rain Control Program (40 CFR 72 thru 78, 6 NYCRR 201-6) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.



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Title VI Stratospheric Ozone Protection (40 CFR 82, Subpart A thru G, 6 NYCRR 200.10) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

RACT Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP State Implementation Plan (40 CFR 52, Subpart HH, 6 NYCRR 200.10) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status

Facility is in compliance with all requirements.

SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code

Description

4931	ELEC & OTHER SERVICES COMBINED
4953	REFUSE SYSTEMS

SCC Codes

SCC or Source Classification Code is a code developed and used" by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information.Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

SCC Code

Description

5-03-001-13	SOLID WASTE DISPOSAL - INDUSTRIAL SOLID WASTE DISPOSAL: INDUSTRIAL - INCINERATION SOL WST DISP:INCINRTN-INDUSTRIAL:MASS BURN ROTARY WATERWALL COMBUSTOR
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Facility Emissions Summary



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In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount of material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents a federally enforceable emissions cap or limitation for that contaminant. The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant	PTE lbs/yr	PTE tons/yr	Actual lbs/yr	Actual tons/yr
001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN				
068131-74-8	ASHES (RESIDUES)				
007440-41-7	BERYLLIUM				
007440-43-9	CADMIUM				
000124-38-9	CARBON DIOXIDE				
0NY750-00-0	CARBON DIOXIDE EQUIVALENTS				
000630-08-0	CARBON MONOXIDE	494000			
007647-01-0	HYDROGEN CHLORIDE	578000			
007664-39-3	HYDROGEN FLUORIDE	14600			
007439-92-1	LEAD	7400			
007439-97-6	MERCURY	1400			
000074-82-8	METHANE				
010024-97-2	NITROUS OXIDE				
0NY210-00-0	OXIDES OF NITROGEN	974000			
0NY075-00-0	PARTICULATES	48300			
0NY075-00-5	PM-10				
007446-09-5	SULFUR DIOXIDE	420000			
0NY100-00-0	TOTAL HAP				
0NY998-00-0	VOC	70000			

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined by subpart 201-2, constitutes an affirmative



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defense to penalties sought in an enforcement action brought by the Department 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 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 and maintained;
 - (3) During the period of the emergency the facility owner 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 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 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 - 6 NYCRR 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 Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR 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 201-6.2(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 201-6.2(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 201-6.4(a)(2)
The permittee must comply with all conditions of the Title V facility permit. Any permit



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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 201-6.4(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 - 6 NYCRR 201-6.4(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 order to maintain compliance with the conditions of this permit.

Item H: Property Rights - 6 NYCRR 201-6.4(a)(6)

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

Item I: Severability - 6 NYCRR Part 201-6.4(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 201-6.4(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 Act;



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- 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 201-6.4(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 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



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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.

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**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.

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
FACILITY	ECL 19-0301	99	Powers and Duties of the Department with respect to air pollution control
1-MBMWC	40CFR 52-A.21(j)(2)	51	Best Available Control Technology (BACT) (see narrative)
FACILITY	40CFR 60-BBBB	34	Applicability of 40 CFR 60, Subpart BBBB Conditions
1-MBMWC	40CFR 60-BBBB	52	Applicability of 40 CFR 60, Subpart BBBB Conditions
FACILITY	40CFR 60-BBBB.1650	35	Operator Training Course
FACILITY	40CFR 60-BBBB.1655	36	Plant Specific Training Course
FACILITY	40CFR 60-BBBB.1660	37	Plant-Specific Training
FACILITY	40CFR 60-BBBB.1665	38	Information that must be included in the Plant-Specific Operating Manual.
FACILITY	40CFR 60-BBBB.1670	39	Location for keeping the plant specific operating manual
FACILITY	40CFR 60-BBBB.1675	40	Operator Certification For



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			Chief Facility Operator and Shift Supervisor - Class I & Class II MWC Units Employees that may operate MWC units
FACILITY	40CFR 60-BBBB.1680	41	Operation of MWC Unit In Absence of Certified Operator(s)
FACILITY	40CFR 60-BBBB.1685	42	MWC Unit Operating Practices
1-MBMWC	40CFR 60-BBBB.1690	53, 54	Requirements
1-MBMWC	40CFR 60-BBBB.1695	55	Operating requirements during periods of startup, shutdown, and malfunction.
1-MBMWC	40CFR 60- BBBB.1705(a)(1)	56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68	Emission Unit Permissible Emissions - Class I MWC Units
1-MBMWC	40CFR 60- BBBB.1705(a)(3)	69	Carbon Monoxide emission limits for Mass burn rotary waterwall Class I and Modular starved air Class II, small MWC plants.
1-MBMWC	40CFR 60-BBBB.1710	70	Emission Limits During Periods of Start-Up, Shutdown, and Malfunction
1-MBMWC	40CFR 60-BBBB.1720	71	Continuous Emission Monitoring Systems (CEMs) for Gaseous Pollutants.
1-MBMWC	40CFR 60-BBBB.1730	72	Operation of CEMs
1-MBMWC	40CFR 60-BBBB.1750	73	Continuous Emission Monitoring System Data Collection
1-MBMWC	40CFR 60-BBBB.1755	74	Conversion of 1 hr. arithmetic averages into appropriate averaging time and units
1-MBMWC	40CFR 60-BBBB.1760	75	Continuous Opacity Monitoring System Requirements
1-MBMWC	40CFR 60-BBBB.1775	76	Stack Testing Requirements
1-MBMWC	40CFR 60-BBBB.1795(b)	77	Alternative Dioxins/Furans Stack Testing Schedule - Class I and Class II MWC Units
1-MBMWC	40CFR 60-BBBB.1805	78	MWC Load Level, Temperature and Carbon Feed Rate Monitoring Requirements
1-MBMWC	40CFR 60-BBBB.1830	79	Types of records that must be kept
1-MBMWC	40CFR 60-BBBB.1835	80	Retention of records
1-MBMWC	40CFR 60-BBBB.1840	81	Operator training and certification records



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1-MBMWC	40CFR 60-BBBB.1845	82	Stack testing records
1-MBMWC	40CFR 60-BBBB.1850	83	Records for continuously monitored pollutants or parameters.
1-MBMWC	40CFR 60-BBBB.1855	84	Records for municipal waste combustion units that use activated carbon to control dioxins/furans or mercury emissions.
1-MBMWC	40CFR 60-BBBB.1860	85	Reports that must be submitted and required format.
1-MBMWC	40CFR 60-BBBB.1865	86	Appropriate units of measurement for reporting emissions data.
1-MBMWC	40CFR 60-BBBB.1875	87	Contents of the initial compliance report.
1-MBMWC	40CFR 60-BBBB.1880	88	Submission of annual compliance report
1-MBMWC	40CFR 60-BBBB.1885	89	Contents of annual compliance report.
1-MBMWC	40CFR 60-BBBB.1890	90	Reporting requirements for non-compliance with the requirements of Subpart BBBB.
1-MBMWC	40CFR 60-BBBB.1895	91	Semiannual report submission dates.
1-MBMWC	40CFR 60-BBBB.1900	92	Contents for semiannual out-of-compliance report.
1-MBMWC	40CFR 60-BBBB.1905	93	Requests to change semiannual or annual reporting dates.
FACILITY	40CFR 68	19	Chemical accident prevention provisions
FACILITY	40CFR 82-F	20	Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.3	21	False Statement.
FACILITY	6NYCRR 200.6	1	Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10	Maintenance of equipment.
FACILITY	6NYCRR 201-1.4	100	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2(a)	13	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-3.3(a)	14	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	22, 43, 44	Title V Permits and



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FACILITY	6NYCRR 201-6.4(a)(4)	15	the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4(a)(7)	2	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4(a)(8)	16	General Conditions - Fees
FACILITY	6NYCRR 201-6.4(c)	3	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4(c)(2)	4	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.4(c)(3)(ii)	5	Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-6.4(d)(4)	23	Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4(e)	6	Compliance Schedules - Progress Reports
1-MBMWC	6NYCRR 201-6.4(f)(1)	46	Compliance Certification
FACILITY	6NYCRR 201-6.4(f)(6)	17	Operational Flexibility - Alternate Operating Scenarios
FACILITY	6NYCRR 201-7.1	24, 45	Off Permit Changes
FACILITY	6NYCRR 202-1.1	18	Emission Capping in Facility Permits
FACILITY	6NYCRR 202-1.2	25	Required emissions tests.
FACILITY	6NYCRR 202-1.3	26, 27, 28	Notification.
FACILITY	6NYCRR 202-1.4	29	Acceptable procedures.
FACILITY	6NYCRR 202-1.5	30	Separate emission tests by the commissioner.
FACILITY	6NYCRR 202-2.1	7	Prohibitions.
FACILITY	6NYCRR 202-2.5	8	Emission Statements - Applicability
FACILITY	6NYCRR 211.1	31	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.2	101	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 215.2	9	General Prohibitions - visible emissions limited.
1-MBMWC	6NYCRR 219-5.5	48	Open Fires - Prohibitions
1-MBMWC	6NYCRR 219-8.1	49	Abatement.
1-MBMWC	6NYCRR 219-8.3	50	Emission Guidelines and Compliance Times for Small Municipal Waste Combustion Units Constructed on or before August 30, 1999
FACILITY	6NYCRR 225-1.2(i)	32	Compliance Schedules
1-MBMWC/-/WFA	6NYCRR 225-2.3(b)(2)	94	Sulfur-in-Fuel Limitations
			Eligibility to burn



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1-MBMWC/-/WFA	6NYCRR 225-2.4(b)	95, 96, 97, 98	waste fuel A. Eligibility to burn waste fuels A and B.
FACILITY	6NYCRR 225-2.6(d)	33	Sale or use of waste fuels A and B.
1-MBMWC	6NYCRR 617.11(d)	102	Decision-making and findings requirements

Applicability Discussion:

Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

ECL 19-0301

This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6 NYCRR 200.6

Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6 NYCRR 200.7

Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

6 NYCRR 201-1.4

This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, 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.

6 NYCRR 201-3.3 (a)

The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial 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.



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6 NYCRR Subpart 201-6

This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6 NYCRR 201-6.4 (a) (4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.4 (a) (7)

This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.4 (a) (8)

This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6 NYCRR 201-6.4 (c)

This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6 NYCRR 201-6.4 (c) (2)

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6 NYCRR 201-6.4 (c) (3) (ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6 NYCRR 201-6.4 (d) (5)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.



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6 NYCRR 201-6.4 (e)

Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6 NYCRR 201-6.4 (f) (6)

This condition allows changes to be made at the facility, without modifying the permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.

6 NYCRR 202-1.1

This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6 NYCRR 202-2.1

Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calENDar year.

6 NYCRR 202-2.5

This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6 NYCRR 211.2

This regulation limits opacity from sources to less than or equal to 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

40 CFR Part 68

This Part lists the regulated substances and there applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act AmENDments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

Facility Specific Requirements

In addition to Title V, DUTCHESS CO RESOURCE RECOVERY FACILITY has been determined to be



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subject to the following regulations:

40 CFR 52.21 (j) (2)

BACT determinations are made on a case-by-case basis and can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination will have to be entered into the **special** permit conditions, separately by the permit reviewer.

40 CFR 60.1650

This section describes who must complete the municipal waste combustor operator training course, and by when.

40 CFR 60.1655

This section describes the MWC employees who are required to complete a plant-specific training course.

40 CFR 60.1660

This section describes what plant-specific training must be provided.

40 CFR 60.1665

This section describes eleven (11) items which the Permittee must include in the plant-specific operating manual:

:

40 CFR 60.1670

This condition indicates where the plant specific operating manual should be located, and the parties that the manual should be available for review or inspection by.

40 CFR 60.1675

This section describes the type and the timeframe of operator certification required for all chief facility operators and shift supervisors at Class I & Class II MWC units.

40 CFR 60.1680

This section describes employees that may operate MWC units

40 CFR 60.1685

This section describes the operational requirements that must be followed if the certified chief facility operator and certified shift supervisor are both temporally off-site. Specific operational and notification requirements are specified depending on the length of time that a certified chief facility operator and certified shift supervisor are off-site.

40 CFR 60.1690



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40 CFR 60.1695

40 CFR 60.1705 (a) (1)

40 CFR 60.1705 (a) (3)

40 CFR 60.1710

40 CFR 60.1720

40 CFR 60.1730

40 CFR 60.1750

40 CFR 60.1755

40 CFR 60.1760

40 CFR 60.1775

40 CFR 60.1795 (b)

40 CFR 60.1805

40 CFR 60.1830

40 CFR 60.1835

40 CFR 60.1840

40 CFR 60.1845

40 CFR 60.1850



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40 CFR 60.1855

40 CFR 60.1860

40 CFR 60.1865

40 CFR 60.1875

40 CFR 60.1880

40 CFR 60.1885

40 CFR 60.1890

40 CFR 60.1895

40 CFR 60.1900

40 CFR 60.1905

40 CFR Part 60, Subpart BBBBB

6 NYCRR 200.3

6 NYCRR 201-6.4 (f) (1)

Alternate operating scenarios. The owner or operator of the major facility may propose a range of operating conditions that will allow flexibility to operate under more than one operating scenario. Upon issuance of the permit, operation under each proposed alternate operating scenario is authorized without requiring a permit modification.

6 NYCRR 201-7.1

This section of Part 201-7 specifies the criteria that need to be met in order to restrict emissions to avoid Title V or other applicable requirements using federally enforceable permit conditions permit.



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6 NYCRR 202-1.2

6 NYCRR 202-1.3

6 NYCRR 202-1.4

6 NYCRR 202-1.5

6 NYCRR 211.1

6 NYCRR 219-5.5

6 NYCRR 219-8.1

6 NYCRR 219-8.3

This section provides the required 40 CFR 60, Subpart BBBBB detailed compliance schedules for Class I and Class II small municipal waste combustor units.

6 NYCRR 225-1.2 (i)

Sulfur-in-fuel limitation for the firing of waste oil on or after July 1, 2014.

6 NYCRR 225-2.3 (b) (2)

This regulation is for the eligibility to burn waste fuel A. The combustion efficiency must be demonstrated to the commissioner to be at least 99 percent while burning waste fuel A.

6 NYCRR 225-2.4 (b)

This regulation sets the limits for the compounds that may be in Waste Fuel A or B. These are: PCB less than 50 parts per million (ppm); Total Halogens less than 1,000 ppm; Sulfur less than the limits in Part 225-1; Lead less than 250 ppm; and a minimum gross heat content of 125,000 BTU/Gallon

6 NYCRR 225-2.6 (d)

This regulation requires that Waste Fuels A or B be burned only to those facilities permitted to handle burn these fuels.

6 NYCRR 617.11 (d)



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Compliance Certification
Summary of monitoring activities at DUTCHESS CO RESOURCE RECOVERY FACILITY:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring
1-MBMWC	51	intermittent emission testing
1-MBMWC	53	monitoring of process or control device parameters as surrogate
1-MBMWC	54	record keeping/maintenance procedures
1-MBMWC	55	record keeping/maintenance procedures
1-MBMWC	56	intermittent emission testing
1-MBMWC	57	intermittent emission testing
1-MBMWC	58	intermittent emission testing
1-MBMWC	59	intermittent emission testing
1-MBMWC	60	intermittent emission testing
1-MBMWC	61	intermittent emission testing
1-MBMWC	62	intermittent emission testing
1-MBMWC	63	monitoring of process or control device parameters as surrogate
1-MBMWC	64	continuous emission monitoring (cem)
1-MBMWC	65	monitoring of process or control device parameters as surrogate
1-MBMWC	66	intermittent emission testing
1-MBMWC	67	continuous emission monitoring (cem)
1-MBMWC	68	continuous emission monitoring (cem)
1-MBMWC	69	continuous emission monitoring (cem)
1-MBMWC	70	record keeping/maintenance procedures
1-MBMWC	71	record keeping/maintenance procedures
1-MBMWC	72	record keeping/maintenance procedures
1-MBMWC	73	record keeping/maintenance procedures
1-MBMWC	74	record keeping/maintenance procedures
1-MBMWC	75	record keeping/maintenance procedures
1-MBMWC	76	record keeping/maintenance procedures
1-MBMWC	77	intermittent emission testing
1-MBMWC	78	record keeping/maintenance procedures
1-MBMWC	79	record keeping/maintenance procedures
1-MBMWC	80	record keeping/maintenance procedures
1-MBMWC	81	record keeping/maintenance procedures
1-MBMWC	82	record keeping/maintenance procedures
1-MBMWC	83	record keeping/maintenance procedures
1-MBMWC	84	record keeping/maintenance procedures
1-MBMWC	85	record keeping/maintenance procedures
1-MBMWC	86	record keeping/maintenance procedures
1-MBMWC	87	record keeping/maintenance procedures
1-MBMWC	88	record keeping/maintenance procedures
1-MBMWC	89	record keeping/maintenance procedures
1-MBMWC	90	record keeping/maintenance procedures
1-MBMWC	91	record keeping/maintenance procedures
1-MBMWC	92	record keeping/maintenance procedures
1-MBMWC	93	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
1-MBMWC	46	record keeping/maintenance procedures
1-MBMWC	47	record keeping/maintenance procedures
FACILITY	7	record keeping/maintenance procedures
FACILITY	32	work practice involving specific operations
1-MBMWC/-/WFA	94	work practice involving specific operations



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1-MBMWC/-/WFA	95	work practice involving specific operations
1-MBMWC/-/WFA	96	work practice involving specific operations
1-MBMWC/-/WFA	97	work practice involving specific operations
1-MBMWC/-/WFA	98	work practice involving specific operations
1-MBMWC	102	record keeping/maintenance procedures

Basis for Monitoring

As required by 40 CFR Subpart BBBB for municipal waste combustor including MSW process operation controls, load levels, temperature, CEMs, and COMs.