

State of Delaware

Department of Natural  
Resources and  
Environmental Control

Division of Air Quality



*Annual  
Title V Fee  
Committee  
Status Report*

Calendar  
Year  
2016

Published June 30, 2017

This report meets the requirements of 7 Del. C. Chapter 60, Subchapter VIII, Section 6097(l)

## Table of Contents

<b>Section</b>	<b>Page</b>
Introduction.....	1
Title V Fee Committee.....	2
Overall Program Costs.....	4
Fees Collected.....	4
Delinquent Facilities.....	6
Fee Structure for 2015-2017.....	7
User Fee Credits Program (2015-2020).....	8
Current Staffing Levels.....	8
Program Accomplishments.....	9
EPA Program Evaluation.....	9
Title V Permitting Activities.....	10
Title V Compliance Activities.....	11
Title V Enforcement Activities.....	11
Title V Planning Activities.....	12
Title V Emission Inventory Activities.....	13
Title V Air Monitoring Activities.....	14
Title V Small Business Ombudsman Activities.....	14
Other Special Accomplishments.....	16
Appendix A.....	21
Appendix B.....	22

## Introduction

Title V is an air pollution control program, based in federal law, designed to standardize air quality permits and the permitting process for major sources of air emissions across the country. The name "Title V" comes from Title V of the 1990 Federal Clean Air Act Amendments, which required that the U.S. Environmental Protection Agency (EPA) establish a national operating permit program. Accordingly, EPA adopted regulations [Title 40 of the Code of Federal Regulations, Chapter 1, Part 70 (Part 70)] which required states and local permitting authorities to develop and submit a federally enforceable operating permit program for EPA approval. As a result, the State of Delaware developed 7 DE Admin. Code 1130.

Section 502(b) of the 1990 Clean Air Act Amendments requires that all sources subject to the permitting requirements under Title V of the 1990 Clean Air Act Amendments pay an annual fee, sufficient to cover all reasonable (direct and indirect) costs required to develop and administer the permit program. These requirements were incorporated into 7 *Del. C.* Chapter 60, Subchapter VIII. These fees must be reviewed periodically (currently every three years) before the authorization expires to consider adjustments. In the State of Delaware, these annual fees cover both "Major Sources" and "Synthetic Minor" sources. EPA defines a Major Source as a facility that emits, or has the potential to emit (PTE) any criteria pollutant or hazardous air pollutant (HAP) at levels equal to or greater than the Major Source Thresholds (MST). The MST for criteria pollutants may vary depending on the attainment status and non-attainment classification (e.g. moderate, serious, severe, extreme) of the geographic area in which the facility is located. Sources may also elect to take voluntary limits to reduce their PTE to below the MST. These sources are called Synthetic Minor sources.

The Title V revenue is intended to ensure a stable level of support for the technically complex activities undertaken by the Department of Natural Resources and Environmental Control (DNREC or the Department) to ensure both protection of human health and the environment and a reasonable level of service to customers seeking permits and other services. The services provided by the Department supported wholly or partially by this Title V fee revenue are summarized in a later section of this report called "Program Accomplishments" and include:

- Permitting activities;
- Compliance activities;
- Enforcement activities;
- Planning activities;
- Emission inventory activities;
- Air monitoring activities;
- Small Business Ombudsman activities; and
- Other special projects/accomplishments.

These activities and the fees required to support this work are consistent with the EPA guidance for Title V programs. This report is intended to provide a reasonable amount of accountability for those activities and the fees assessed.

## **2016 Title V Fee Committee Status Report June 30, 2017**

### **Title V Fee Committee**

Delaware Statute established the Title V Operating Permit Program Advisory Committee<sup>1</sup> (also known as the Title V Fee Committee herein) and specified that the membership of this committee include certain emitting business interests as well as members of the public and non-governmental organizations. The purpose or charter of the Title V Fee Committee is to assess whether the fees collected pursuant to 7 *Del. C.* Chapter 60, Subchapter VIII are adequate to ensure the effective implementation of the Program and to make recommendations to remedy or improve any deficiencies or elements of the Program.

The Title V Fee Committee has been operating for several years, and by working together, has expanded its scope to include renegotiating the Title V fee structure periodically prior to expiration to ensure that the financial needs of the Division of Air Quality (DAQ) and other Title V requirements are being met while the payment burden is distributed fairly across the Major Source and Synthetic Minor facilities. In order to do this, the Division of Air Quality estimated the cost of the Title V Program through a detailed Workload Analysis developed in 2010. The workload analysis projected operating costs for 2011- 2013. Used during the 2011 round of fee negotiations, the [2011-2013 Workload Analysis](#) and additional Title V program information is available on the committee webpage at <http://www.dnrec.delaware.gov/Air/Pages/Title-V-Fee-Committee-Information.aspx>. More recently, the DAQ established revenue requirements based on Full Time Employee (FTE) restrictions established by personnel hiring caps. These personnel restrictions then set the basis for the total Title V revenue that needs to be collected annually for the next three years. Once the revenue target is set, the Title V Fee Committee works with the Major and Synthetic Minor Sources to determine how the fees will be distributed fairly.

The current Title V Fee Schedule, which was supported by the Title V Fee Committee, was presented to the Delaware General Assembly through House Bill 374. It was passed by the House on June 17, 2014, was passed by the Senate on June 26, 2014, and was signed by the Governor on September 11, 2014. This Title V Fee Schedule applies to Calendar Years 2015, 2016, and 2017. It can be found in 7 *Del. C.* Chapter 60, Subchapter VIII and is available at: <http://delcode.delaware.gov/title7/c060/sc08/index.shtml>.

House Bill 374 also included language requiring the performance of a management system review, by an independent third party, of the Title V air permitting scope, funding, and revenue generation process. The goal was to enhance the DAQ's existing performance initiatives; ensure proper focus on the efficient and effective use of annual fees collected to sustain the requirements of the Title V Program, as well as deployment of manpower resources and technologies to optimize services, and to ensure the development of a fair, balanced, and sustainable Title V revenue generation program.

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<sup>1</sup> 7 *Del. C.* Chapter 60, Subchapter VIII § 6099 requires that the Committee "...include, but not be limited to, the Secretary of the Department of Natural Resources and Environmental Control, or the Secretary's duly appointed designee; the Director of the Division of Air Quality, or the Director's duly appointed designee; 2 members who will represent stationary sources; 1 to be a member of the Chemical Industry Council; a member of the Delaware State Chamber of Commerce; a member representing a public utility; 2 members of a nationally affiliated or state environmental advocacy group; and the chairpersons of the House and the Senate Natural Resource Committees. The Secretary of the Department of Natural Resources and Environmental Control shall serve as the Chair of this Committee."

## **2016 Title V Fee Committee Status Report June 30, 2017**

After some delays related to obtaining contract bids, a contractor, Ambient Air Quality Services, Inc. was selected. The Special Working Group (SWG) reviewed the contractor's proposal for this project and then met on February 8, 2016, to discuss recommended changes that were communicated to the contractor via a conference call. The committee approved the final revised proposal in late February 2016. The contract deliverables (final report) are expected in early 2017.

The Title V Fee Committee met three times in 2016:

- During the September 21, 2016, meeting, the Committee reviewed the 2015 TV Annual Report, received an update on the Management Review project and discussed the general development schedule for the 2018-2020 fees.
- During the October 27, 2016, meeting, the DAQ presented and proposed the revenue requirements for the 2018-2020 fee cycle. Additionally, the committee received a progress report on the Management Review project.
- During the December 9, 2016, meeting, the Committee (Chamber) presented their feedback on Revenue Requirements and TV Account Carryover Balance. Collectively, the Committee reached an agreement on the 2018-2020 revenue requirements. Additionally, the Committee (Chamber) presented their recommended enhancements to the TV program for consideration and inclusion in the Management Review project.

The materials from each of these meetings are available for review at:

<http://www.dnrec.delaware.gov/Air/Pages/Title-V-Fee-Committee-Information.aspx>.

Title V Fees are normally billed annually in December for the next calendar year. Title V bills for Calendar Year 2016 were mailed in January 2016. Facilities can choose to pay their bill in one payment or in quarterly payments. If the facility chooses to pay their bill in one payment, it is due by February 1<sup>st</sup>. If the facility chooses to pay their bill in quarterly payments, the payments are due on February 15<sup>th</sup>, May 15<sup>th</sup>, August 15<sup>th</sup>, and November 15<sup>th</sup>. If a facility does not pay their bill, they will be sent three reminders. The third reminder is sent certified mail. If, after the third reminder, the facility still does not pay their bill, enforcement action may be taken. Any delinquent source shall be subject to a 2% compounding monthly interest rate for each month overdue. Furthermore, consistent with the legislation, the Department has the authority to revoke a Title V permit on the sole basis that the annual fee has not been paid.

**2016 Title V Fee Committee Status Report  
June 30, 2017**

**Overall Program Costs**

See Table 1 for a summary breakdown of Calendar Year 2016 Title V Costs.

**Table 1: 2016 Title V Costs**

Salary	\$2,200,130.59
Travel	\$13,997.85
Contractual <sup>[1]</sup>	\$462,660.34
Supplies	\$99,662.61
Capital Outlay	\$35,538.00
Additional Support Services <sup>[2]</sup>	\$242,660.56
Small Business Ombudsman Program <sup>[3]</sup>	\$87,313.95
<b>Total</b>	<b>\$3,141,963.90</b>

**Note:** While the state operates on a fiscal year basis (July 1 through June 30), the Title V fees are billed and spent on a calendar year basis. Consequently some “Additional Support Services” costs, provided by other programs/organizations, in CY 2016 may include FY 2017 cost factors.

**Note:** 2016 Title V Account Annual/Monthly Expenses and Revenue statement is presented in Table 9, Appendix B.

**Fees Collected**

Title V fees are billed on a calendar year basis (January 1 through December 31) and the 2016 Title V revenue is determined by the actual monies deposited into the Title V account during calendar year 2016 only. The final revenue is impacted by interest gained on the Title V account, quarterly payments, and some early payments that may be received and deposited in December 2016 for 2017 fees. This makes comparing revenue and fees collected difficult.

For CY2016, **74** active Synthetic Minor and **52** Title V facilities were billed. Following the user fee credit program refunds (approximately \$300,000, see page 9), a total of **\$3,240,790.81**, including previous year(s) back fees, was billed. Of the total amount billed, **\$3,219,311.34** was collected and **\$21,479.47** is overdue. The difference of **\$21,479.47** was the result of multiple partial and non-payments (see Table 4B). Any back fees that are collected in 2017 will be counted towards the 2017 revenue.

<sup>[1]</sup> Items covered under the “Contractual” category include: Legal Assistance, Fleet charges (vehicle rental), building rent, utilities, vendor payments, temp services, and the upkeep of some air monitoring equipment.

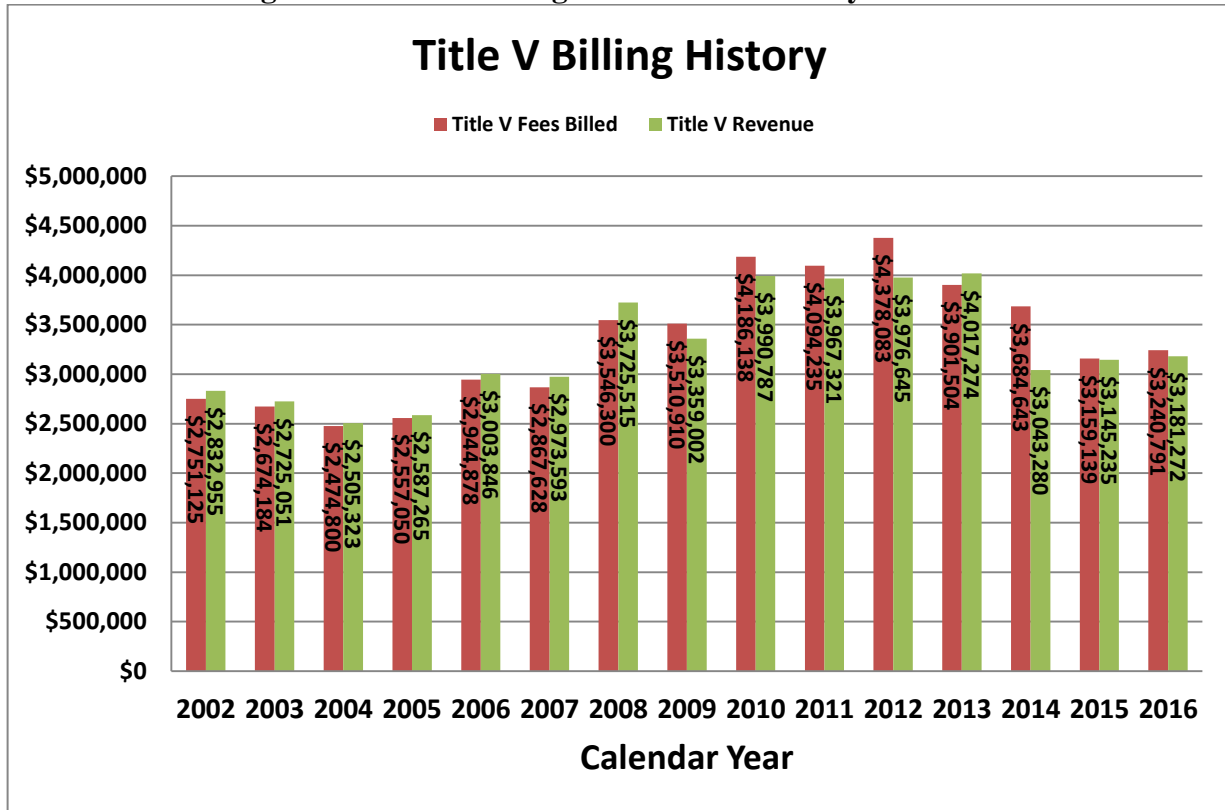
<sup>[2]</sup> Items covered under “Additional Support Services” include: Information Technology (**\$16,444.95**), the Environmental Crimes Unit (**\$208,400.30 based on actual workload**), and OTS support (**\$17,815.31**).

<sup>[3]</sup> Items covered under the “Small Business Ombudsman Program” include the salary and expenses of 1.0 FTE.

**2016 Title V Fee Committee Status Report  
June 30, 2017**

The Calendar Year 2016 Title V revenue was \$3,181,271.74. See Figure 1 for a history of Title V billing and revenue since 2000.

**Figure 1: Title V Billing and Revenue History 2000-2016**



On December 31, 2016, the Title V carryover balance was \$3,612,028.77. See Table 2 for the Title V Carryover Balance History. See Table 3 for 2016 carryover balance prediction.

**Table 2: Title V Carryover Balance Calendar Year 2016**

	2016
2015 Carryover Balance	\$4,445,359
2016 Title V Fee Revenue	\$3,181,272
<b>Sub-Total</b>	<b>\$7,626,631</b>
2016 Total Expenses	-\$3,141,964
FY 2016-2017 Encumbrances	-\$394,738
*Repayment 2006 Program Subsidy	-\$477,900
<b>2016 Actual Carryover Balance</b>	<b>\$3,612,029</b>

\*Note: Includes repayment of TV Program subsidy from 2006 (\$477,900).

**Table 3: Title V Carryover Balance History by Calendar Year**

	2012	2013	2014	2015	2016
<b>Total Title V Fee Revenue</b>	\$3,967,645	\$4,017,274	\$3,043,280	\$3,145,235	\$3,181,272
<b>Total Expenses</b>	\$3,403,998	\$3,248,203	\$3,088,668	\$2,979,694	\$3,141,964
<b>Actual Carryover Balance</b>	\$3,502,552	\$3,947,277	\$4,243,034	\$4,445,358	\$3,612,029

**2016 Title V Fee Committee Status Report  
June 30, 2017**

As previously noted, the Title V revenue is determined by the actual monies deposited into the Title V account during a calendar year. The final revenue is impacted by interest gained on the Title V account, quarterly payments, and some early payments that may be received and deposited in one year for the next year's fees.

**Table 4: CY2017 Title V Carryover Balance Projection**

	<b>2017 Prediction</b>
<b>Estimated 2017 Title V Fee Revenue</b>	\$3,245,550
<b>Estimated 2017 Total Expenses</b>	\$3,204,803
<b>Δ Revenue - Expenses</b>	+\$40,747
<b>OMB Budget Subsidy</b>	-\$500,000
<b>2017 Projected Carryover Balance</b>	\$3,152,776

Please note that the 2017 revenue prediction used in the above calculation was based upon the total amount of actual fees billed for 2017 to include overdue fees from previous year billings. The 2017 expenses prediction was based upon the 2016 expenses plus a 2% cost of living adjustment.

**Delinquent Facilities**

Consistent with legislative requirements and the Department collection policy, the Division of Air Quality first reported delinquent facilities in the 2014 annual report. Table 5A (below) provides a status update for the facilities reported in 2015.

**Table 5A: 2015 Delinquent Facilities Update**

<b>Facility Name</b>	<b>Remaining Delinquent Balance</b>	<b>Recovery Actions Update</b>
Coker Concrete	\$0.00	Continues with 2016 payment plan. 2015 balance paid in full.
<b>TOTAL</b>	<b>\$0.00</b>	

Table 5B (below) reflects the 2016 delinquent facilities to include the amount owed and the specific actions taken to collect the overdue fees. The 2016 delinquent facilities listing does not include 2015 delinquent balances currently under legal review or collection by the department.

**Table 5B: 2016 Delinquent Facilities**

<b>Facility Name</b>	<b>Amount Due</b>	<b>Recovery Actions</b>
Micropore, Inc	*\$4,374.50	Facility contacted, received partial payment, continues with 2016 payment plan
Coker Concrete	*\$8,354.97	Facility contacted, received partial payment, continues with 2016 payment plan.
Lars Recycling, LLC	\$8,750.00	Facility contacted and requested a payment plan.
<b>TOTAL</b>	<b>\$21,479.47</b>	

\* Indicates partial payment was received.



**2016 Title V Fee Committee Status Report  
June 30, 2017**

**Fee Structure Calendar Years 2015-2017**

During January-June 2014, the Title V Committee reviewed and updated the 2015-2017 fee structure. The supporting legislation (HB 374) was passed by the House on June 17, 2014, was passed by the Senate on June 26, 2014, and was signed by the Governor on September 11, 2014.

The new Base Fee is calculated on the total hours expended on each facility for the five year period from 2009-2013. The User Fee is calculated on the facility's most recent baseline year emission inventory report (2011). The Title V Fee Schedule for Calendar Years 2015 through 2017 is provided in Table 5 below:

**Table 6: Calendar Year 2015 through 2017 Title V Fee Schedule**

<b>Fee Type</b>	<b>Category</b>	<b>Category Description</b>	<b>2015 - 2017 Fees</b>
Base Fee	A	> 6,000 Hours	\$277,020
Base Fee	B	5,001 – 6,000 Hours	\$108,300
Base Fee	C	4,001 – 5,000 Hours	\$93,480
Base Fee	D	3,001 – 4,000 Hours	\$80,940
Base Fee	E	2,001 – 3,000 Hours	\$57,000
Base Fee	F	1,501 – 2,000 Hours	\$42,180
Base Fee	G	1,001 – 1,500 Hours	\$28,500
Base Fee	H	667 – 1,000 Hours	\$18,240
Base Fee	I	334 – 666 Hours	\$9,120
Base Fee	J	0 – 333 Hours	\$5,700
Base Fee	K	New Sources that have applied for a permit after January 1, 2014	\$6,840
User Fee	1	> 2,000 Tons	\$350,000
User Fee	2	1,001 – 2,000 Tons	\$100,000
User Fee	3	501 – 1,000 Tons	\$60,000
User Fee	4	201 – 500 Tons	\$28,000
User Fee	5	101 – 200 Tons	\$12,000
User Fee	6	51 – 100 Tons	\$9,000
User Fee	7	26 – 50 Tons	\$6,000
User Fee	8	6 – 25 Tons	\$4,100
User Fee	9	0 – 5 Tons	\$3,950
User Fee	10	New Sources that have applied for a permit after January 1, 2014	\$6,000

**2016 Title V Fee Committee Status Report  
June 30, 2017**

**User Fee Credit Program**

As part of the 2015-2017 legislation, a user fee credit program was established for calendar years 2015, 2016, 2017, 2018, 2019, and 2020. The Department will grant annual user fee credits to sources with an active Title V or Synthetic Minor permit on or before December 31, 2014, and without delinquent accounts. The credit shall be determined by the categorical status of a qualifying facility in calendar year 2014. User fee credits for 2015, 2016, and 2017 will be calculated as a percentage of the total Program annual fee reduction amount of \$300,000. As described in Table 6, eligible facilities will be granted the following fee credit percentages by User Fee category:

**Table 7: User Fee Credits**

User Fee Category	Fee Credit Percent	Fee Credit
1	Will receive a credit of 26.25% of \$300,000	\$78,750
2	Will receive a credit of 7.50% of \$300,000	\$22,500
3	Will receive a credit of 4.50% of \$300,000	\$13,500
4	Will receive a credit of 2.10% of \$300,000	\$6,300
5	Will receive a credit of 0.90% of \$300,000	\$2,700
6	Will receive a credit of 0.68% of \$300,000	\$2,040
7	Will receive a credit of 0.45% of \$300,000	\$1,350
8	Will receive a credit of 0.30% of \$300,000	\$900
9	Will receive a credit of 0.30% of \$300,000	\$900
10	Will receive a credit of 0%.	\$0

The 2018, 2019, and 2020 total Program annual fee reduction amount will be reviewed and adjusted by the Title V Operating Permit Program Advisory Committee as part of the 2018 through 2020 fee negotiation cycle. Fee reduction credit will be terminated on December 31, 2020.

**Current Staffing Levels**

The Division of Air Quality’s end of calendar year 2016 staffing level was 85% and 10 positions were vacant. See Table 8 for a breakdown of the staffing levels for the Branches and Groups within the Division.

**Table 8: Division of Air Quality Staffing Levels**

Branch	Authorized	Occupied	Staffing Level
Director	1.0	1.0	100%
Analytical Support Group	3.0	2.0	67%
Operations Support Group	3.5	2.5	71%
Administrative Group	5.0	2.0	40%
Engineering & Compliance Branch	23.5	20.5	91%
Planning Branch	29.0	26.0	90%
<b>Total</b>	<b>65.0</b>	<b>54.0</b>	<b>83%</b>
Conservation District Employees	1.0	1.0	100%
Temporary Positions	2.0	1.0	50%
Seasonal Positions	2.0	0.0	0%

**2016 Title V Fee Committee Status Report  
June 30, 2017**

During 2016, four full-time employees separated or retired from the Division and three additional full-time employees were hired. See Table 9 for a list of hiring actions taken in calendar year 2016.

**Table 9: Calendar Year 2016 Hiring Actions**

<b>Date</b>	<b>Name</b>	<b>Source</b>	<b>Position</b>	<b>Branch</b>	<b>Funding</b>
2/22/2016	Mike McCullough	External	Env Scientist I	Planning	Title V/Air Grant
4/17/2016	Lauren DeVore	External	Planner II	Planning	Title V/Air Grant
*7/1/2016	Alex Welch	<b>District</b>	Env Ctrl Tech	Planning	Title V/Air Grant
10/17/2016	Rena Held	External	Env Scientist II	Planning	Title V/Air Grant

\*Conservation district employees are considered contractual positions and are not calculated as a full-time state employee.

Please note that in 2008, the DAQ was authorized 76 full-time positions. As of December 31, 2014, state-wide personnel reductions have decreased the Division’s authorized positions to 65 FTEs with a hiring cap of 58 employees.

**PROGRAM ACCOMPLISHMENTS**

**2015 EPA Title V Program Evaluation**

As first reported in 2015, the EPA conducted an evaluation of Delaware’s Title V Program on September 29, 2015, at DAQ’s New Castle office. The purpose of the evaluation was to assess DNREC's overall implementation of the Title V program, and to identify organizational strengths, as well as suggested areas of improvement. Previously evaluated in 2004 and 2007, in both instances, EPA discovered no significant program deficiencies, and generally expressed satisfaction with DNREC's program.

Per the EPA, DNREC's Title V Program is well established, and because EPA routinely reviews proposed Title V permits which are submitted to EPA during the course of their issuance, EPA did not conduct a file review during this evaluation. The following areas were evaluated:

- Title V permit preparation and content;
- Monitoring to ensure compliance;
- Public participation and outreach;
- Permit issuance;
- Compliance;
- Implementation agreement; and
- Title V program fees.

The EPA noted the following best practices:

- The EPA commended DNREC for their workforce development program. The electronic resources were clear, well organized, and complete, and are no doubt a valuable asset for new and seasoned employees alike.

## **2016 Title V Fee Committee Status Report June 30, 2017**

- Additionally, EPA supports the changes that DNREC has made to their review memos, namely the inclusion of 5-year contemporaneous changes, facility-wide PTE, and the chronology of permitting actions. These will provide clarity not only for DNREC's permitting engineers, but for EPA permit reviewers as well.
- EPA also strongly supports DNREC's efforts to include a monitoring rationale in review memos as standard operating procedure.
- DNREC's Title V fee structure is also a particular program strength. By revisiting fees regularly, and by incorporating the two-pronged approach which includes not just emissions based fees but workload based fees as well, DNREC has managed to reduce the impact that the general trend of diminishing emissions has had on other permitting authorities nationwide.
- Finally, EPA commends DNREC for reducing their backlog, for making timeliness a priority, and for implementing a concurrent review process.

The EPA highlighted the following suggested improvement areas:

- To enhance the Division's access to external training, remove the barriers to out-of-state travel; and
- To provide the public with greater access to the Title V process, consider posting draft/proposed permits online.

**Conclusion:** The EPA concluded that no notable deficiencies were identified during the evaluation, and EPA remains highly confident in DNREC's implementation of their Title V program.

The complete EPA evaluation report may be viewed on the committee website @ <http://www.dnrec.delaware.gov/Air/Pages/Title-V-Fee-Committee-Information.aspx> .

### **Title V Permitting Activities 2016**

The Division of Air Quality is responsible for all permitting activities at Title V and Synthetic Minor facilities. In calendar year 2016, the following permitting activities were accomplished:

- 6 Title V Permit Renewals were issued;
- 6 Title V Significant Permit Amendments were issued;
- No Public Hearings for Title V Permits were held;
- 6 Synthetic Minor Permits were issued;
- 9 Synthetic Minor Permit Amendments were issued

The Division of Air Quality is required to issue Title V Renewal Permits within 18 months or 547 days of determination of receipt of a complete application as defined by [7 DE Admin. Code 1130](http://regulations.delaware.gov/AdminCode/title7/1000/1100/1130.shtml#TopOfPage) (<http://regulations.delaware.gov/AdminCode/title7/1000/1100/1130.shtml#TopOfPage>). In calendar year 2016, the Division of Air Quality issued Title V Permit Renewals within 353 days of complete application receipt on average.

## **2016 Title V Fee Committee Status Report June 30, 2017**

As part of the Value Stream Mapping efforts for the Synthetic Minor permitting program, the Division of Air Quality has committed to issuing Synthetic Minor permits within 120 days of receiving a complete application. In calendar year 2016, Synthetic Minor permits were issued within 139 days from application receipt on average. This is a slightly longer timeframe than the goal; however the 120 day timeframe is an estimate from the receipt of a complete application to the issuance of a permit, typically a construction permit. The 139 day average timeframe is reflective of the time between the application and the issuance of the operating permit. The time between the issuance of a construction permit and an operating permit is not in the hands of the Division of Air Quality as it is influenced by many parties.

When a Title V source is constructing new equipment, the source may choose to have these permits issued using the “Federally Enforceable” process. This process requires that a draft permit be advertised for 30 days and that a proposed permit be sent to EPA for a 45 day review period. This process mirrors the path for issuing a Title V Permit, Permit Renewal, or Significant Permit Modification. If a construction permit or operating permit amendment follows these procedures, the permit can be incorporated into the Title V Permit using the Administrative Amendment process upon completion of construction of the new source. During calendar year 2016, the Division of Air Quality had several companies choose this path for permit issuance.

Please note that while the Engineering & Compliance Branch has introduced efficiencies to improve permitting timeframes and reduce rework, as the Branch continues to operate with a reduced staffing level, instances where permit timeframes exceed the permit issuance range may occur.

### **2016 Title V Compliance Activities**

Many Title V related compliance activities are undertaken by the Division of Air Quality each year. These activities include on-site compliance evaluations or inspections, stack tests, and report reviews. In calendar year 2016, the following compliance activities were undertaken:

- 54 on-site compliance evaluations were conducted at Title V facilities;
- 138 stack tests were conducted at Title V facilities;
- 202 report reviews were conducted for Title V facilities;
- 35 on-site compliance evaluations were conducted at Synthetic Minor facilities;
- 6 stack tests were conducted at Synthetic Minor facilities; and
- 22 report reviews were conducted for Synthetic Minor facilities.

### **2016 Title V Enforcement Activities**

If the compliance activities described above indicate that a facility is not in compliance with requirements, the Division of Air Quality will pursue enforcement action against that facility. Enforcement actions may take the form of Notices of Violation, Administrative Orders, Consent Decrees or Agreements, or Stipulated Penalties. In some cases, the Department takes no further action depending upon specific circumstances such as whether the violation was self-reported, minor, isolated and corrected quickly. In other cases, the Department has the authority and may seek, and generally obtains, fines and penalties. For a complete description of

## **2016 Title V Fee Committee Status Report June 30, 2017**

enforcement activities, see the Department of Natural Resources and Environmental Control's "Compliance and Enforcement Response Guide" available at: <http://www.dnrec.delaware.gov/Admin/Documents/DNREC-Compliance-Enforcement-Response-Guide.pdf>. In calendar year 2016, the following enforcement activities were completed (please note that this does not include pending enforcement activities):

- 16 Notices of Violation were issued to Title V facilities;
- 2 Administrative Orders were issued to Title V facilities;
- No Stipulated Penalty Demand Letters were issued;
- No Consent Decrees were issued;
- 6 Notices of Violation were issued to Synthetic Minor facilities; and
- No Administrative Orders were issued to Synthetic Minor facilities.

### **Title V Planning Activities**

There are many planning activities associated with the Title V program. These activities include, but are not limited to:

- Preparing State Implementation Plan (SIP) revisions to ensure and demonstrate progress in attaining and maintaining ambient air quality standards, and meeting visibility goals; and
- Developing and maintaining comprehensive criteria pollutant and air toxics emission inventories; and
- Developing and maintaining air pollution control regulations in accordance with State and Federal requirements.

The Planning Branch of the Division of Air Quality accomplished the following Title V related planning activities in calendar year 2016:

- State Implementation Plan (SIP) activities:
  - Developed and submitted to the EPA under CAA Section 126, three petitions targeting power plants in Pennsylvania that significantly contribute to ozone nonattainment in Delaware because they are not appropriately controlled/regulated.
  - Developed and submitted to the EPA under CAA Section 126, a petition targeting a power plant in West Virginia that significantly contributes to ozone nonattainment in Delaware because it is not appropriately controlled/regulated.
  - Challenged in the D.C. Circuit Court EPA's attainment date extension for the 2008 Ozone NAAQS.
  - Challenged in the D.C. Circuit Court EPA's Cross State Air Pollution Rule (CSAPR) update.
  - Continued to support Delaware Attorney General in a petition for review of the EPA's Startup, Shutdown and Malfunction SIP Call.
- Regulatory Development Activities:
  - Completed revisions to Section 1.0 of 7 DE Admin. Code 1141, Architectural and Industrial Maintenance Coatings.

## **2016 Title V Fee Committee Status Report June 30, 2017**

- Continued work on major revision to Section 33 of 7 DE Admin. Code 1124, Solvent Degreasing.
- Identified as part of DNREC's 2016 Regulatory Review, five regulations to be updated in 2017.
- Other Title V Activities:
  - Developed and submitted to the EPA, Delaware's second year PM Advance Plan.
  - Completed a Moveable Air Monitoring Platform (MAMP) study at Delaware City, and began new study near Eden Park in Wilmington.
  - Completed substantive work on a review and analysis of the EPA 2014 National Air Toxics Assessment (NATA).
  - Continued work with the Delaware Attorney General on actions to prevent EPA follow-up actions from negating the impact of the U.S. Court of Appeals for the District of Columbia's ruling on EPA's 100 hour exemption from air pollution control requirements, for RICE engines that participate in demand response programs.
  - Continued to work with the EPA and other states and organizations to address and mitigate the impact of upwind emissions on Delaware's ozone air quality problems.
  - Submitted to the EPA, in accordance with 40 CFR §58.10(a), an annual air monitoring network plan.
  - Analyzed and submitted to the EPA, comments on their proposed implementation rule for the National Ambient Air Quality Standard (NAAQS) for ground-level ozone.
  - Completed strategy and analysis and submitted to the EPA area classifications for the 2015 ozone NAAQS.
  - In light of an EPA SIP disapproval, began planning of ways to address the lack of NSR offsets.

### **Title V Emission Inventory Activities**

The Emission Inventory Group is part of the Planning Branch of the Division of Air Quality. The Emission Inventory Group is charged with preparing all necessary inventories of emissions from all sources of air pollution in the State, including stationary sources, area sources, and mobile sources. The information gathered by the Emission Inventory Group is used in many of the planning activities described above. Emissions include criteria air pollutants, air toxics, and greenhouse gases.

The Emission Inventory Group accomplished the following Title V related activities in calendar year 2016:

- All Title V permitted facilities were required to report 2015 emissions of criteria pollutants;
- Collected 2015 point source data from 56 facilities through the annual reporting cycle that takes place in the March through April timeframe;
- Performed a technical review of the submitted data for completeness and accuracy; and
- Submitted 2015 point source data to EPA's Emissions Inventory System.

**2016 Title V Fee Committee Status Report  
June 30, 2017**

**Title V Air Monitoring Activities**

The Air Monitoring Group of the Division of Air Quality conducts several Title V related activities including:

- Measuring ambient concentrations of selected air pollutants and selected meteorological parameters; and
- Conducting source emission evaluations with the portable analyzer.

The ambient air monitoring program receives funding from several sources to accomplish its monitoring objectives. The Title V program supports approximately 45% of the personnel costs in the program. In Calendar Year 2016, the Air Monitoring Branch accomplished the following Title V related activities:

- Measured the ambient (outdoor) concentrations of the criteria air pollutants along with selected weather parameters. The monitoring network consists of 11, fixed-site monitoring locations, including PM2.5 standalone sites;
- Conducted special studies to address citizen concerns, to evaluate the need to relocate or add additional fixed sites, or to measure the impact of a particular air pollution source;
  - March 2016, using the Moveable Air Monitoring Platform (MAMP), completed a special study in Delaware City, DE. This study addresses community concerns relating to any contributions to local ambient air quality by marine vessels idling at the offloading docks during crude oil delivery.
  - August 2016, the MAMP began a special monitoring program near the Port of Wilmington. This study will focus on the neighborhood of Eden Park and their concerns regarding particulate issues from local industry and heavy duty diesel traffic.
- Routinely monitored selected hazardous air pollutants (air toxics) including metals and volatile organic compounds.

**Title V Small Business Ombudsman Activities**

The Small Business Assistance Program (SBAP) within the Department of Natural Resources and Environmental Control (DNREC) is a free service available to all new and existing small businesses located in the State of Delaware. The SBAP can help small businesses understand their environmental requirements and help them comply in the easiest and most effective way. The SBAP is a non-regulatory program. The Small Business Ombudsman (SBO) is part of the SBAP which was created through the Clean Air Act Amendments of 1990. The SBAP is comprised of one staff member: the Ombudsman who manages the SBAP.

The SBAP provides the following services:

- Serves as small businesses initial contact within DNREC;



## 2016 Title V Fee Committee Status Report June 30, 2017

- Provides specific information for small businesses detailing how to comply with environmental regulations specific to their industry;
- Helps small businesses fill out permit applications, forms and other required paperwork;
- Conducts environmental assessments at small businesses and discusses compliance;
- Keeps abreast of developing regulations and current issues impacting small businesses and shares that information with small businesses through workshops, newsletters, trade association meetings, mailings, websites, and other methods;
- Provides feedback to the Division of Air Quality from small businesses;
- Helps resolve permitting and compliance disputes and cuts red tape;
- Seeks funding opportunities for special programs that benefit small businesses; and
- Serves as the manager of the Regulatory Advisory Service (RAS).

The Small Business Ombudsman also serves on the following committees:

- Title V Fee Committee (as needed)
- Delaware Envirothon planning committee
- Division of Air Quality's Envirothon Project Team
- Office of the Secretary Recognition Committee
- Coordinates the committee that reviews incinerator ban applicability applications

The Small Business Ombudsman also serves as the Department's Registrar of Regulations and is responsible for coordinating with the state Office of the Registrar of Regulations.

In Calendar Year 2016, the Small Business Ombudsman conducted the following activities:

- Conducted nine Regulatory Advisory Service (RAS) meetings.
- Participated in a variety of outreach events:
  - Make-a-Splash Water Festival sponsored by DNREC's St. Jones Reserve
  - Delaware Envirothon - sponsored by the Delaware Association of Conservation Districts
    - Serve as co-chair of the Division of Air Quality's Envirothon project team and as such have shared responsibility for coordinating planning meetings; preparing meeting notes and updating the online project folder; coordinating the team's efforts in updating the annual training guide; developing and implementing a 90 minute training session; coordinating the development/updating of competition test questions; and coordinating staff involvement for the competition.
  - Delaware State Fair
    - Worked three shifts in the DNREC building which is sponsored by all of DNREC's divisions.
  - Kent County Economic Summit held at DelTech's Terry Campus and attended by over 250 participants.
    - Provided a display and information on the Small Business Assistance Program and DNREC in general
  - 24<sup>th</sup> annual Entrepreneurial and Business Woman's Expo

## 2016 Title V Fee Committee Status Report June 30, 2017

- Participated with a display and handouts. The event was attended by 600 participants.
- Seeds of Greatness Entrepreneurs Business Institute (EBI) training session – *Elevating Your Business to the Next Level*. Co-sponsored by the Women’s Business Center.
  - Participated as a resource partner and gave a five minute presentation on DNREC’s Small Business Assistance Program to all 125 participants and then spoke with individuals during the time to visit displays.
- Began participating in the statewide County is *Open for Business* events held monthly in each county. Attended 12 events and made 43 contacts with business entrepreneurs interested in learning about DNREC and potential permit/regulation requirements.
- As the Department’s Registrar worked with Department staff to ensure the Regulatory Development Process steps were being followed. A total of 15 Start Action Notices initiating the process were approved. A total of 48 items were submitted to the State Registrar’s office for publication: 19 proposals, 19 finals, 4 emergency regulations, 2 general notices, 3 erratas, and one State Implementation Plan.
- Conducted a training session in January 2016 on DNREC’s Regulatory Development Process that was updated in December 2015. Training also covered the new Regulatory Flexibility Analysis and Regulatory Impact Statement (RFA/RIS) form.
- Updated for a second time the Department’s policy on the Regulatory Development Process during the last quarter of 2016.
- Coordinated the Department’s Regulatory Review efforts which culminated in a final report being submitted to the Governor’s office. The 4 ½ month long effort included the use of a variety of outreach methods to announce the review and comment period, an internal review of 102 regulations, a 3-month long open public comment period, and a public hearing held in each county.
- Participated in two EPA Region III 507 Program Regional Liaison conference calls. The purpose of the calls is to provide activity updates by each state.
- Listened to two of the EPA 507 Program National Steering Committee’s monthly conference calls.
- Participated in DNREC Division of Waste & Hazardous Substances Senior Staff Meetings to provide an update on SBAP activities (quarterly).
- Communicated with representatives of local chambers of commerce, trade associations and the Delaware Economic Development office.
- Provided permit and compliance assistance to 49 entities through phone calls and e-mails.
  - 44 phone calls made and received
  - 135 emails sent and received

### **Other Special Accomplishments and Projects**

Created in 2012 and captured in previous reports, the DAQ continues to refine a comprehensive Strategic Plan that involves reviewing how the Division currently operates and outlining goals for the future. This Strategic Plan is based upon the DAQ’s vision and mission. The Strategic Plan leverages a “Balanced Scorecard” approach to review the DAQ’s goals from four separate perspectives:

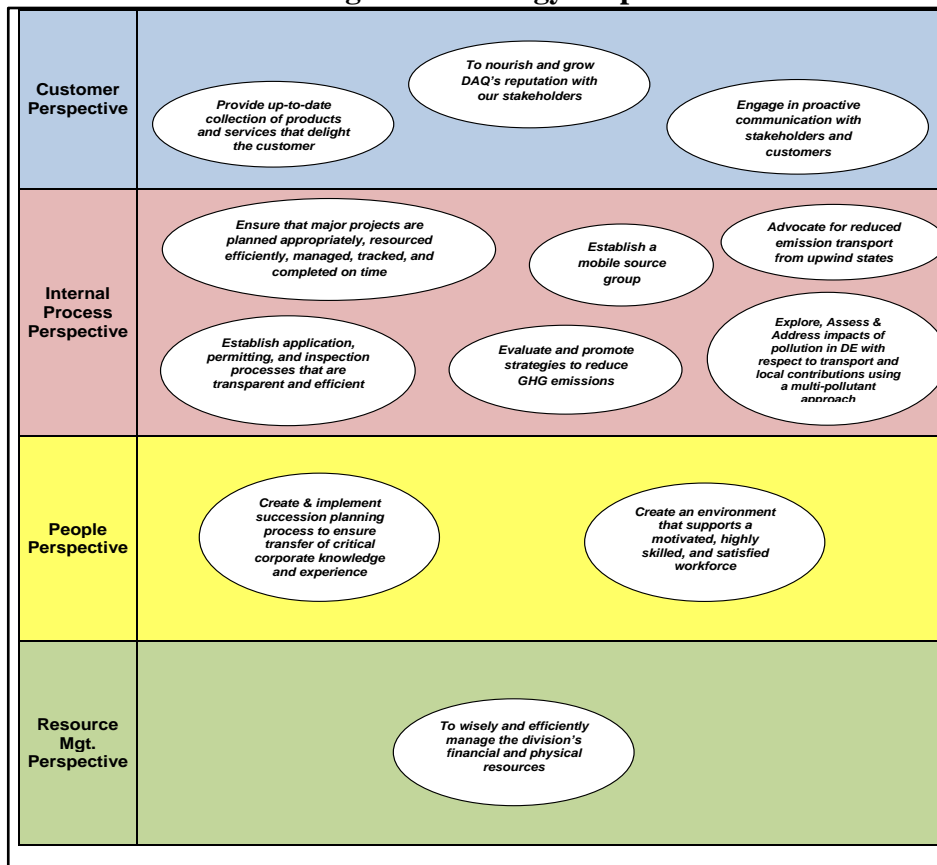
**2016 Title V Fee Committee Status Report  
June 30, 2017**

- Customer;
- Resource Management;
- Internal Processes; and
- People.

The Balanced Scorecard approach resulted in a strategy map outlining the DAQ’s goals. This strategy map is shown in Figure 2.

To reach the goals outlined on the strategy map, the DAQ developed Air Action Plans for the individual activities required to achieve these goals. Each Air Action Plan includes a goal statement, objectives, a schedule of activities that must be conducted to complete the Air Action Plan and performance measures to ensure that the Air Action Plans are being completed. A comprehensive list of Air Action Plans was identified in the 2013 Annual TV Committee Report.

**Figure 2: Strategy Map**



The DAQ continues to execute its strategy with focus upon the division key priorities. These are listed and detailed in Table 10 below. During 2016, we have implemented and deployed several action plans in support of these priorities, including: (1) Development of modeling capabilities for mobile sources, (2) Challenging cross-state air pollution with CAA Section 126 petitions, (3) Deployment of a succession planning program, (4) Identification and remediation of workforce environment. DAQ continues developing action plans to achieve the goals associated with each priority.

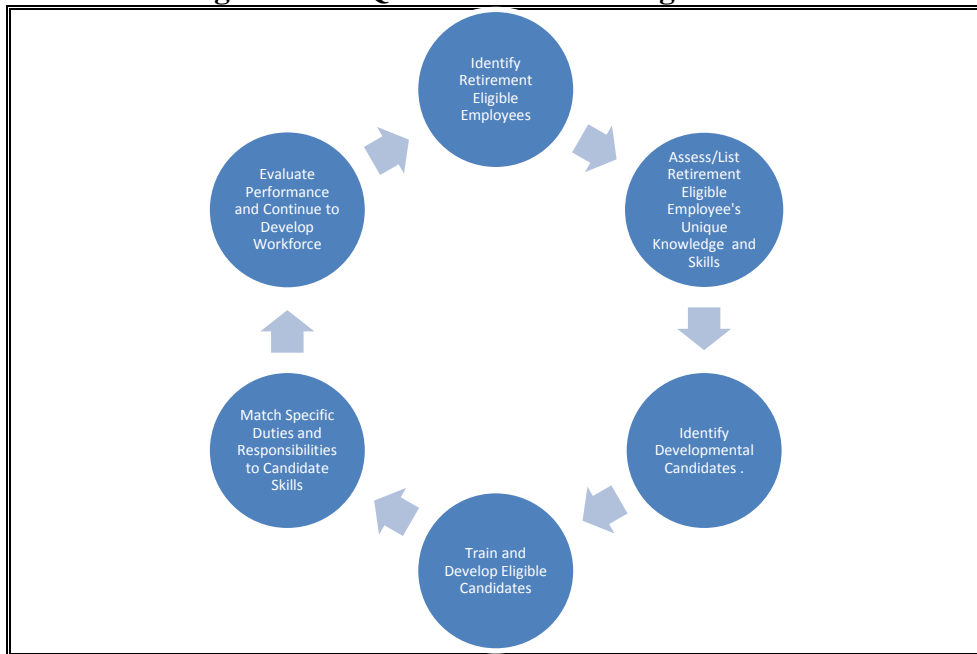
**Table 10 DAQ Priorities**

<b>Priority Name</b>	<b>Description</b>
Air Pollution Transport	Cross state air pollution is managed so that we are able to meet and maintain healthy air quality for Delaware citizens.
Climate Change	We will continue to increase public awareness of Delaware’s vulnerabilities and implement proactive projects to address mitigation, resiliency and adaptation through coordinated efforts with stakeholders and other agencies.
Communities	We ensure that no communities in Delaware are subjected to disparate environmental impacts.
Improving Manufacturing Efficiencies	Existing facilities are able to operate in a manner that will reduce costs, improve air quality, and improve the overall efficiency without unnecessary regulatory burden.
Mobile Sources	Ensure that multi-modal transportation options are widely available to all Delawareans so that Vehicle Miles Travelled are reduced year after year with declining reliance on cars. The emissions from the transportation sector decline with the use of cleaner fuels and improved technologies.
Workforce Development	Our work environment supports a motivated, highly skilled, and satisfied workforce.

Our deployment of the succession planning tool within DAQ is based upon the finding that 50% of the Division staff was eligible for full or reduced retirement benefits within a 5-year period. Of this crucial group, 25% of those staff members were eligible for immediate retirement and benefits. Recognizing the potential loss of decades of knowledge, experience and skills, the Division implemented a systematic Succession Planning initiative to identify and transfer critical knowledge and skillsets from experienced staff to more junior and suitable candidates. Figure: 3 describe the key elements of the succession plan.

Evolving from the succession planning initiative, DAQ created and implemented an Annual Training Plan for all staff members. This mandatory training plan will identify and target critical training priorities identified in the overall succession plan while continuing to focus on individual career development for all staff.

Figure 3: DAQ Succession Planning Initiative



The Division of Air Quality also participates in many special projects. These special projects may or may not be Title V related. However, the results of these projects often impact Title V activities. In calendar year 2016, the Division of Air Quality participated in the following special activities:

- Participated in the DAQ management and administrative activities including:
  - Updated the Division's Continuity of Operations Plan (COOP) and participated in a state wide COOP table top exercise. Receiving positive comments from the exercise evaluators, the Division and department plans clearly depict the specific actions required to continue critical operations and services in the event of an emergency that may render our primary operating facilities unusable.
  - Continued work with the Division Safety Council. The council planned, organized and executed Emergency Evacuation exercises at both office locations. The Safety Council captured several lessons learned to update and improve our emergency plans. Putting safety in the hands of employees, this team of volunteers is creating a culture of safety and leading the Division in all efforts to Promote, Prevent, and Protect our people and resources.
  
- Participated in outreach activities including:
  - For a sixth year, the DAQ worked with the Delaware Envirothon Committee supporting high school level environmental education. Since 2012, Air Quality has been included as a key topic/study area for the Delaware Envirothon competitions. The Division of Air Quality is a Gold Sponsor for the Envirothon program supporting the Delaware and international Envirothon competitions;
  - Educational programs and public outreach events addressing energy conservation;

**2016 Title V Fee Committee Status Report**  
**June 30, 2017**

- The 2016 Delaware State Fair display highlighting the Air Quality Index (AQI) notification and awareness program;
  - Educational programs or public outreach events addressing school-related anti-idling requirements;
  - Educational information and public outreach on open-burning restrictions;
  - Air Quality awareness outreach; and
  - Asthma awareness outreach.
- Participated in Cancer Consortia activities;
  - Continued to provide compliance assistance and oversight to auto body shops, dry cleaners, and gasoline delivery vessels for state and federal air regulations;
  - Continued to track and provide oversight on vapor recovery tests of regulated gasoline dispensing facilities;
  - Mobile Source Activities including:
    - Monthly participation with Metropolitan Planning Organizations (WILMAPCO and Dover/Kent MPO) Technical Advisory Committee;
    - Meeting with the Transportation Conformity Inter-Agency Consultation Workgroup to discuss SIP planning for PM<sub>2.5</sub> and Ozone Attainment;
    - Participated in Vehicle Inspection and Maintenance Activities;
    - Development of mobile budgets for PM<sub>2.5</sub>;
    - Conducted a Phase II Remote Sensing Study;
    - Participated on the Clean Air Council Delaware Diesel Difference;
    - Continued implementation and evaluation of a new vehicle remote sensing program to provide data to 1) evaluate the effectiveness of our vehicle inspection and maintenance program, and 2) develop strategies to further reduce mobile source related emissions; and
    - Continued to identify and quantify emissions associated with new residential development in Delaware through the PLUS Process.
  - Provided support to the Coastal Zone program for conducting technical reviews of Coastal Zone applications;
  - Coordinated with the Energy and Climate Division on energy policy issues; and
    - Continued working with the Delaware Air Quality Partnership mascot “TROPO”. Tropo is a life-size mascot that supports outreach programs for youth and their families. Supported by DAQ, Tropo visited several Delaware schools, community centers and the state fair to educate kids and encourage them to improve air quality.

**Appendix A: 2016 Title V Monthly Expense and Revenue**

<b>Table 11: 2016 Title V Account Expenses and Revenue</b>								
<b>MONTH</b>	<b>EXPENSES</b>						<b>INTEREST</b>	<b>REVENUE</b>
	Salary	Energy	Travel	Contractual	Supplies	Capital Outlay		
<b>January</b>	\$174,545.19	\$ -	\$26.40	\$18,011.15	\$581.26	\$ -	\$2,048.56	\$5,548.56
<b>February</b>	\$155,267.28	\$ -	\$1,484.79	\$69,907.09	\$9,471.43	\$ -	\$1,967.23	\$1,674,444.53
<b>March</b>	\$168,336.73	\$ -	\$1,022.59	\$126,510.27	\$3,716.51	\$ -	\$2,842.28	\$871,540.18
<b>April</b>	\$257,716.16	\$ -	\$1,744.04	\$11,737.12	\$ 2,034.65	\$ -	\$3,641.86	\$332,987.31
<b>May</b>	\$169,015.75	\$ -	\$2,545.01	\$46,718.74	\$13,193.43	\$ -	\$4,357.87	\$25,797.87
<b>June</b>	\$207,959.06	\$ -	(\$2,446.62)	\$117,032.36	\$57,280.14	\$35,538.00	\$4,382.23	\$80,175.63
<b>July</b>	\$163,444.57	\$ -	\$539.97	\$28,585.74	\$6,059.15	\$ -	\$4,341.24	\$53,513.19
<b>August</b>	\$175,051.09	\$ -	\$1,383.22	\$47,634.46	\$1,253.47	\$ -	\$4,562.43	\$5,357.88
<b>September</b>	\$205,652.21	\$ -	\$4,271.81	\$93,647.61	\$10,320.62	\$ -	\$ 4,667.60	\$44,407.05
<b>October</b>	\$154,106.48	\$ -	\$884.17	\$54,943.34	(\$6,285.77)	\$ -	\$4,193.14	\$73,613.59
<b>November</b>	\$190,120.25	\$ -	\$2,228.72	\$149,526.01	\$488.50	\$ -	\$4,295.02	\$7,105.67
<b>December</b>	\$178,915.82	\$ -	\$313.75	\$28,380.96	\$1,549.22	\$ -	\$3,783.78	\$6,780.28
							Total Interest Included in Revenue Totals	\$45,083.24
<b>2016 TOTALS</b>	\$2,200,130.59	\$ -	\$13,997.85	\$792,634.85	\$99,662.61	\$ 35,538.00		<b>\$3,181,271.74</b>
<b>2016 Total Expenses</b>	<b>\$3,141,963.90</b>							

**2016 Title V Fee Committee Status Report  
June 30, 2017**

**Appendix B: Facility Hours and Emissions History**

Appendix B, depicts the most recent 5-year history of total hours expended on each facility and 2011 baseline emissions for inventoried facilities

**Appendix B: Facility Hours and Emissions History**

Facility ID	Company Name	Class	2016 Hours	2015 Hours	2014 Hours	2013 Hours	2012 Hours	2011 NO <sub>x</sub> (TPY)	2011 PM <sub>10</sub> (TPY)	2011 SO <sub>2</sub> (TPY)	2011 VOC (TPY)	2011 Total (TPY)
1000300131	A.I. DuPont Hospital For Children	TV	81.00	77.5	218	200.5	336.3	6.24	0.33	0.95	0.6	8.12
1000300073	Aearo Technologies LLC	TV	101.25	26.25	57	111	185	0.11	0.01	0	1.78	1.9
1000300064	Air Liquide Industrial US LP	TV	11	2	7.5	72	358.5	0	0	0	0.06	0.06
1000300933	Allan Myers DE, Inc. Wilmington	SM	193.50									
1000100006	Allan Myers, Delaware Inc. - Bay Road (ICM)	SM	16.50	56.25	150.25	104.75	320.5					
1000500130	Allan Myers, Delaware Inc. - Georgetown (ICM)	SM	32.50	39	130.25	39	50.5					
1000500013	Allens Harim Foods LLC	SM	52.00	48	0	20	42.5	2.09	0.01	0.01	0.11	2.22
1000100247	Ameresco Delaware Energy - Sandtown	TV	222.00	219	207	96.25	92.5	23.5	6.4	8.5	3.91	42.31
1000500258	Ameresco Delaware Energy - Southern	TV	304.25	292.75	328.5	286.5	123	38.9	11.9	34.4	6.17	91.37
1000300785	American Air Liquide-Glasgow	SM	15.50	2	13.5	32.5	128.75					
1000300023	Amtrak Wilmington Maintenance Facility	TV	41.00	155.5	94.75	245	158.25	3.86	0.3	0.02	2.42	6.6
1000300059	Arlon, Inc.	SM	3.50	41	192.5	114.5	16.5					
1000300106	AstraZeneca Pharmaceuticals, LLC-Fairfax	SM	96.50	78.5	397.5	226	218.25	6.85	0.16	0.15	0.51	7.67
1000300107	AstraZeneca Pharmaceuticals, LLC-Newark	SM	0.00	49	195	44.5	81					
1000300003	BASF Corporation - Newport	TV	250.50	131.5	390.5	86.5	839	10.51	2.06	0.17	24.01	36.75
1000100026	Bayhealth Medical Center-Kent General	SM	33.50	41	64	57.5	107.75	2.52	0.03	0.03	0.24	2.82
1000500036	Bayhealth Medical Center-Milford Memorial	SM	7.00	35.5	28.5	71	44.5					
1000300782	Bilcare Research Inc.	SM	44.50	41.5	7.5	0	88.5					
1000300600	Bracebridge Corp. - Bracebridge (Subsidiary BOA)	SM	32.00	0	0.5	27.75	45.25					



**2016 Title V Fee Committee Status Report  
June 30, 2017**

Facility ID	Company Name	Class	2016 Hours	2015 Hours	2014 Hours	2013 Hours	2012 Hours	2011 NO <sub>x</sub> (TPY)	2011 PM <sub>10</sub> (TPY)	2011 SO <sub>2</sub> (TPY)	2011 VOC (TPY)	2011 Total (TPY)
1000300599	Bracebridge Corp. - Christiana (Subsidiary BOA)	SM	35.25	0	10.5	0	13.5					
1000300277	Bracebridge Corp. - Deerfield (Subsidiary BOA)	SM	65.00	0	0	0	6.5					
1000300317	Calpine Mid-Atlantic Generation-Christiana Energy Center	TV	56.25	30.75	98.75	15.5	135.5	0.93	0.17	0.42	0	1.52
1000300005	Calpine Mid-Atlantic Generation-Delaware City Energy Center	TV	50.25	25.25	82.75	15	64.75	0.17	0.04	0.09	0	0.3
1000300007	Calpine Mid-Atlantic Generation-Edge Moor	TV	453	356.5	370	498.5	676.75	346.24	4.52	83.11	25.02	458.89
1000300388	Calpine Mid-Atlantic Generation-Hay Road	TV	511.00	594.25	547.75	437.75	341	601.8	5.15	11.2	33.46	651.61
1000300006	Calpine Mid-Atlantic Generation-West Energy Center	TV	52.75	29.75	54.75	16.75	104	0.4	0.1	0.28	0	0.78
1000300010	Chemours Edgemoor Plant	TV	25	89.75	267	378.25	499.5	27.46	22.2	18	99.4	167.06
1000300080	Christiana Care Health Services - Christiana Hospital	TV	199.50	121.75	189.5	405.5	189.5	14.17	0.09	0.13	0.8	15.19
1000300024	Christiana Care Health Services - Wilmington Hospital	SM	128.75	3	15.75	90	22.5					
1000300068	Christiana Materials, LLC	SM	117.25	10	107	40	167					
1000100002	City Of Dover - McKee Run Generating Sta	TV	181.75	90.5	307.5	158.5	100.25	43.92	0.11	0.3	0.75	45.08
1000100076	City Of Dover-Van Sant Generating Sta	TV	87.50	153.25	124.75	95.5	68.5	3.01	0.12	0.5	0.03	3.66
1000300290	Clean Earth Of New Castle Inc.	TV	64.00	394.25	281.75	128.75	227.75	19.63	5.34	6.81	3.32	35.1
1000100219	Coastal Coatings Inc. - Dover	SM	3.00	3.25	2.5	10	0					
1077700162	Coker Concrete	SM	163.50	6	58.25	122.75	0					
1000300506	Computer Sciences Corporation	SM	0.00	16	1.5	35.5	0					
1000300593	Conectiv Thermal Systems	SM	0.00	68	5.5	6	36					
1000300066	Contractors Materials LLC - Heald Street	SM	29.25	66	0	0	55.5					
1077700800	Corrado Construction Co. LLC	SM	5.50	0	2	39.5	29					
1000300058	Croda, Inc	TV	602.50	463.25	485.75	457	354.75	24.29	1.83	0.12	4.49	30.73
1000300351	Dana Railcare	SM	0.00	1.25	4	56	58.5					
1000300365	Dassault Falcon Jet-Wilmington Corp.	TV	296.50	169	118.75	351.25	91	1.07	0.01	0.01	13.52	14.61

**2016 Title V Fee Committee Status Report  
June 30, 2017**

Facility ID	Company Name	Class	2016 Hours	2015 Hours	2014 Hours	2013 Hours	2012 Hours	2011 NO <sub>x</sub> (TPY)	2011 PM <sub>10</sub> (TPY)	2011 SO <sub>2</sub> (TPY)	2011 VOC (TPY)	2011 Total (TPY)
1000300016	Delaware City Refining Co.- Delaware City	TV	2864.75	2566	3032	3108	3517.25	1071.52	238.01	333.17	302.56	1945.26
1000300404	Delaware City Refining Co.- Marketing Terminal	TV	125.25	97.75	0	126	0	0.02	0	0	18	18.02
1000100005	Delaware Hospital For The Chronically II	SM	13.50	46.5	32.25	102.75	144.75					
1000300827	Delaware Park Horse Racing Track	SM	0.00	30	0	0	7					
1000300415	Delaware Recyclable Products, Inc.	SM	86.25	23	0.75	78.5	33.75					
1000300111	Delaware Solid Waste Authority, Cherry Island	TV	467.25	416.75	449.5	141.25	392.75	1.26	0.61	3.32	7.16	12.35
1000100068	Delaware Solid Waste Authority, Sandtown	TV	25.00	141	187.75	143.5	118.75	4.8	2	7.7	1.48	15.98
1000500099	Delaware Solid Waste Authority, Southern	TV	158.25	202.25	440	138	228	0.8	0.3	4.9	4.56	10.56
1000100066	Delaware State University	TV	202.25	123.25	243.75	352	257.25	3.45	0.04	0.3	0.18	3.97
1000300508	Department of Corrections Howard R. Young	SM	0.00	10.5	27.5	27.5	18					
1000300090	Department of Corrections James T. Vaughn - Smyrna	TV	382.00	18.25	56	166	235.25	4.65	0.07	0.08	0.49	5.29
1000300077	Department of Veterans Affairs Medical Center	TV	67.50	104.5	49.25	163	275.75	3.55	0.03	0.05	0.61	4.24
1077700233	Diamond Materials - Roving Crusher	SM	115.00	48.5	90	76	58					
1000300069	Diamond Materials, LLC	SM	83.50	87.5	108	143	5.5	4.44	4.66	0.46	3.29	12.85
1000100001	Dover Air Force Base	TV	441.00	352.75	270.75	697.25	493.5	23.48	0.67	0.96	22.31	47.42
1000100118	Dover Downs Gaming & Entertainment, Inc.	SM	44.25	54	32.5	22.5	2					
1000300126	DuPont Chestnut Run	TV	190.00	85	157.75	277.5	258	48.31	7.03	66.97	2.6	124.91
1000300011	DuPont Experimental Station	TV	331.00	471.25	576.5	627	451.25	179.76	27.47	247.73	8.26	463.22
1000300673	DuPont Red Lion Plant	TV	77.25	57.25	147.5	97.5	142.5	23.11	0.7	45.51	1.82	71.14
1000300279	DuPont Stine - Haskell Laboratory	TV	192.00	168.25	240.5	57.5	254.5	9.17	0.53	5.1	2.7	17.5
1000300049	DuPont Wilmington Office Building	TV	124.00	85.25	78.5	161.5	146	5.7	0.09	0.69	0.3	6.78

**2016 Title V Fee Committee Status Report  
June 30, 2017**

Facility ID	Company Name	Class	2016 Hours	2015 Hours	2014 Hours	2013 Hours	2012 Hours	2011 NO <sub>x</sub> (TPY)	2011 PM <sub>10</sub> (TPY)	2011 SO <sub>2</sub> (TPY)	2011 VOC (TPY)	2011 Total (TPY)
1000500194	Eastern Shore Natural Gas - Bridgeville	SM	8.00	74.25	20.25	74.25	23.5					
1000300462	Eastern Shore Natural Gas-Delaware City	SM	156.50	365.5	73	49.5	116.25					
1000300822	First States Investors 5200	SM	0.00	25.5	27.5	0	19					
1000300051	FMC Corporation	TV	328.25	244.75	601.25	717	656	31.38	19.05	0.19	2.97	53.59
1000300027	Formosa Plastics Corporation	TV	358.25	289.25	335.75	393	248.5	31.95	19.21	0.22	59.45	110.83
1000300498	Ge Energy-Ceramic Composite Products, LLC	SM	161.25	51	305.25	133.5	163.5					
1000100099	HandyTube Corporation	TV	27.25	47.5	60	323	47.5	0	0	0	6.4	6.4
1000100083	Hanesbrands, Inc.	SM	0.00	0	0	0	42.5					
1000100024	Hanover Foods Corporation	TV	84.00	233	182.5	89	257	2.63	0.04	0.46	0.13	3.26
1000300017	Hercules Incorporated, Research Center	SM	237.00									
1000100067	Hirsh Industries, Inc.	TV	128.50	241.5	43	75.5	33.25	1.25	0.01	0.01	18.26	19.53
1000300087	IKO Production Wilmington Inc	SM	1.00	157	101	186.25	88.75					
1000100011	ILC Dover, LP - Frederica	SM	34.50	29	28	15	40.5	0	0	0	3.33	3.33
1000500001	Indian River Power LLC	TV	638.00	265.25	356.25	553	599.25	2352.47	663.74	9194.44	17.31	12227.96
1000300367	International Petroleum Corp Of Delaware	SM	0.00	145	2	10.25	31.75					
1000300686	JP Morgan Chase - 4001 Governor Printz Blvd.	SM	0.00	0	0.5	0	0					
1000300687	JP Morgan Chase - Bear Christiana Road	SM	74.50	63	20	4	0					
1000300804	JP Morgan Chase - Morgan Christiana Center	SM	0.00	24.5	0	4.5	90					
1000500066	Justin Tanks, LLC	TV	92.50	113	75	62.5	79.75	0.18	0.02	0.22	5.9	6.32
1000100007	Kraft Foods Inc.	SM	252.50	0	0	0	119.5					
1000300115	Kuehne Chemical Company	TV	148.75	320.75	92	148	137	2.38	0.01	0.01	0.07	2.47
1000300907	Lars Recycling	SM	10.00	0								
1000300083	Linde LLC	SM	0.00	17	0	0	89.5					
1000300847	MAGCO Inc.	SM	125.75	94	0	0	63.25					
1000300291	Magellan Midstream Partners	TV	94.25	293.5	202.25	56.5	332.75	1.58	0.18	2.85	38.53	43.14
1000300803	McConnell Johnson - 1201 North Market	SM	5.00	65	0	37.25	14.75					
1000300383	Medal L P, Air Liquide	SM	63.00	17.5	29.5	98.5	49.5					

**2016 Title V Fee Committee Status Report  
June 30, 2017**

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1000100081	Metal Masters Foodservice Equipment Co.	SM	42.75	8	2	23	13					
1000300516	Micropore, Inc.	SM	0.00	14.75	77.5	12	8.5	0	0	0	2.5	2.5
1000300646	Middletown Materials, LLC	SM	52.25	16	111	186.5	38					
1000500037	Nanticoke Memorial Hospital	SM	59.5	24.5	35	22.5	32.5					
1000300919	New Haven Packaging, LLC	SM	83.50									
1000300142	News Journal Company	SM	0.00	4.5	8	41.5	69					
1000300324	Noramco Inc.	TV	471.25	228.25	220.5	24	43					
1000100127	NRG Energy Center Dover, LLC	TV	109.25	232	629.5	407.25	193.5	273.4	75.54	1274.11	2.05	1625.1
1000500011	Orient Corporation Of America	SM	97.00	25.5	0	42.75	97					
1000500093	OSG Ship Management, Inc.	TV	111.50	68.25	65.5	319	321.75	0.07	0	0	764.35	764.42
1000500133	Pats Aircraft Systems	SM	79.00	40	67.5	6.5	68					
1000500146	Perdue Farms Agrirecycle, LLC	SM	119.50	24.25	0	62.75	46.5	15.57	5.19	0	0.01	20.77
1000100075	Perdue Farms, Inc - Milford	SM	31.00	23.25	0.75	67	10.5	5.58	0.04	0.14	0.29	6.05
1000500003	Perdue Grain & Oilseed LLC - Bridgeville	SM	96.00	32	16.75	148.5	26.25	5.23	33.87	1.48	0.28	40.86
1000300166	Polymer Technologies, Inc.	SM	27.25	1	7	119	127.5					
1000300509	Port Contractors	SM	56.50	14	69.75	57.5	5					
1000300288	Prince Minerals, Inc.	SM	146.00	57	58	6.5	26					
1000300093	Printpack, Inc.	TV	14.50	278.5	12.5	59	80.5	3.12	0.02	0.02	44.34	47.5
1000100004	Procter & Gamble Dover Wipes Company	SM	22.25	0	0	0	35					
1000300906	PS-5 LLC (Community Education Building)	SM	115.75	24.75								
1000300463	Pure Green Industries, Inc Refined Products Company (PGR Holdings)	SM	129.50	64.75	115.25	15	4					
1077700904	R & M Recycling	SM	0	9	36.5	32	0					
1000500081	River II LLC	SM	26.50	102	86.5	72.75	189					
1000300033	Rohm & Haas Electronic Materials, Cmp, Inc.	TV	646.50	642	313.5	210	137	3.53	0.42	0.05	6.93	10.93
1000500009	Sea Watch International, Ltd.	SM	22.50	30	20.5	20.5	19.5					
1000300125	Siemens Healthcare Diagnostics - Glasgow	SM	91.50	189	256.5	92.5	109					
1000500021	SPI Pharma, Inc.	SM	95.00	41	47.5	117.5	79.25					
1000300133	St Francis Hospital	SM	0.00	0	66.5	40.5	167					

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1000300021	Sunoco Partners Marketing & Terminals LP	TV	696.50	285.25	168	99.25	95.25	53.6	29.99	23.67	46.07	153.33
1000300482	Transflo Terminal Service, Inc.	SM	0.00	36.25	0	41.5	49.75					
1000100259	Tri-County Materials, LLC	SM	0.50	110.75	69.75	46.5	0					
1000300022	University Of Delaware, Newark	TV	210.00	121	214	321.5	378	19.81	0.32	0.23	3.88	24.24
1000300806	VeriSign Inc.	SM	0.00	53.25	0	0	57					
1000100152	Warren F Beasley Power Station (DEMEC)	TV	755.50	227.5	193.75	307.5	336.25	1.73	0.52	0.07	4.27	6.59
1000300389	Wilmington Wastewater Treatment Plant	TV	64.50	212.75	85.25	368.25	104	4.38	0.09	0.65	0.88	6
1000300929	WX Delaware (Formerly Fisker)	TV	63.00	71	0	0	47.5	11.33	0.05	0.6	0.55	11.99