

**Delaware
Air Quality
Management**

2009 - 2013

Air Toxics Strategic Plan

Year End Status
(January through December 2009)

Detailed Report

Delaware
Air Quality Management
2009 Air Toxics Strategic Plan

The Air Toxics Strategic Plan (ATSP) is a five-year plan of activities to be undertaken by Air Quality Management and other DNREC agencies to reduce the risk of adverse health effects caused by the inhalation of air toxics. The 2009 ATSP, finalized on December 31, 2008, was organized within the following components.

- **Implement an ongoing program to address the risks from exposure to air toxics**
- **Build greater understanding of ambient air toxics environment**
- **Identify potential harm from exposure to air toxics**
- **Gather information related to air toxics sources**
- **Identify options for reducing air toxics in the environment**
- **Implement appropriate actions to reduce the harm from exposure to air toxics**
- **Evaluate the effectiveness of the actions taken to reduce harm from exposure to air toxics**
- **Enhance AQM Air Toxics Resources**

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

Implement an ongoing program to address the risks from exposure to air toxic		12/31/09 Status	Expected Completion
2009	1. Continue to build the strategic planning capacity to implement risk-based assessment programs to mitigate any unacceptable air toxics impacts.		
	a. Review status and complete year-end status report on the 2008 individual Strategic Plans.	• Completed on 2/6/09	---
	b. Track implementation and report year-end-status of the 2008 Air Toxics Strategic Plan by 2/27/09.	• Completed on 2/23/09	---
	c. Review status and complete mid-year status report on the 2009 individual Strategic Plans.	• Completed on 8/20/09	---
	d. Track implementation and report mid-year status on the 2009 Air Toxics Strategic Plan by 9/30/09.	• Completed on 9/2/09	---
	e. Updating of the Air Toxics Strategic Plan for 2010-2014		
	i. Review and revise, if needed, air toxics area source program and timing, as part of the 2010 Air Toxics Strategic Plan by 10/09.	• Completed on 12/23/09	---
	ii. Coordinate development of the 2010 ATSP including incorporation of DATAS results.	• Completed on 12/22/09	---
	iii. Update individual Strategic Plans for 2010-2014.	• Completed on 12/23/09	---
	iv. Update and finalize 2010 ATSP for years 2010 to 2014 by 12/31/09.	• Near Final 2010 ATSP circulated to participants for final comments on 12/26/10	• 1/31/10
	2. Continue participation on internal, local, regional, and national committees to identify air quality problems, develop strategies/solutions, and implement DE air toxics program.		
	a. Continue to support and participate in the Claymont Industry Partnership Initiative.	• EPA scheduled no meeting or activities during this period	• Dropped from 2010 ATSP
	3. Continue participation on internal, local, regional, and national committees to identify air quality problems related to small businesses, develop strategies/solutions, and implement in the DE air toxics program and small business assistance program.		
a. Paint stripping and miscellaneous coatings committee.	• Completed on 2/5/09 • The federal rule will be broken up into 3 separate DE rules (Reg. 1138 Sections 13, 14 and 15)	---	

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

Implement an ongoing program to address the risks from exposure to air toxic		12/31/09 Status	Expected Completion
2009 New	4. Continue participation on internal, local, regional, and national committees to identify pollution prevention opportunities, develop strategies/solutions, and continue the DE pollution prevention program.		
	a. Clean Marina Exposition.	<ul style="list-style-type: none"> • The Clean Marina Exposition was not held in 2009 	---
	b. Delaware Green Lodging Program.	<ul style="list-style-type: none"> • Continued to encourage and support Delaware lodging businesses. 	<ul style="list-style-type: none"> • Dropped from 2010 ATSP
	c. Paint stripping and miscellaneous coatings committee.	<ul style="list-style-type: none"> • Completed on 2/5/09 • The federal rule will be broken up into 3 separate DE rules (Reg. 1138 Sections 13, 14 and 15) 	---
	d. Claymont Industry Partnership Initiative.	<ul style="list-style-type: none"> • EPA scheduled no meeting or activities during this period 	<ul style="list-style-type: none"> • Dropped from 2010 ATSP
	5. Continue participation on internal, local, regional, and national committees to identify energy issues, develop strategies/solutions, and implement Delaware’s energy program.	<ul style="list-style-type: none"> • Continued participation in . . . • Clean State Program (Alt. Fuels) • National Association of State Energy Officials (NASEO) • Delaware Tech Applied Energy Education Advisory Committee 	<ul style="list-style-type: none"> • Ongoing
	6. Identify regulatory deficiencies, implementation problems, and training needs and recommend appropriate solutions.	<ul style="list-style-type: none"> • Completed technical update on 2/23/09 of MARAMA’s MACT Workshop content • No Delaware-related deficiencies, problems or needs were identified during this period 	---
	7. Commence redesign of the Air Quality Management “Air Toxics” webpage by 9/09.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • In 2010 ATSP
8. Continue to evaluate and realign Engineering and Compliance’s assignments, organization structure and protocols to better address risk-based air toxics programs, as needed.	<ul style="list-style-type: none"> • Expanded responsibilities of supervising managers to include facility responsibilities 	---	

“New” designates activities being undertaken in 2009 that were not included in the final 2009 - 2013 Air Toxics Strategic Plan.

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	Implement an ongoing program to address the risks from exposure to air toxic	12/31/09 Status	Expected Completion
2009	9. Assess and pursue implementation of a process for multi-agency sharing of new and existing source information new and existing sources.	<ul style="list-style-type: none"> • Completed determination of data repository (DENS) for compliance, permitting, and bill purposes in 12/09 	<ul style="list-style-type: none"> • In 2010 ATSP
	10. Review and revise, if needed, air toxics area source activities and timing, as part of the 2010 Air Toxics Strategic Plan by 12/09.	<ul style="list-style-type: none"> • Completed on 12/23/09 	<p align="center">- - -</p>
	11. Continue to evaluate and realign Area Source Compliance’s assignments and organization structure to better address risk-based air toxics programs, as needed.	<ul style="list-style-type: none"> • Adjusted the frequency of I/M inspections due to limited resources • Subsequently, restructured I/M inspection program to increase frequency, even with the limited resources 	<p align="center">- - -</p> <p align="center">- - -</p>

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	Build greater understanding of ambient air toxics environment	12/31/09 Status	Expected Completion
2009	1. Determine ambient air toxics concentrations for selected HAPs in Delaware.		
	a. Monitor, pending network review to meet changing resources, for Carbonyls and metals at one (1) air toxic monitoring station and VOCs at two (2) air toxic monitoring stations and report status of monitoring activities to EPA R3, as appropriate.	• Monitoring is progressing as scheduled	• Ongoing
	b. Submit quarterly air toxics monitoring data to national AIRS-AQS database following data validation.	• Data submittals to AQS semi-annually or annually depending on laboratory and internal QA review schedule.	• Ongoing
	c. Continue to support University of Delaware’s special project to provide near real time organic aerosol speciation at MLK monitoring site.	• Continued to provide support throughout this period	• 1/10
	d. Continue Upper Air Profiler project, which will provide meteorological data to NOAA repository for potential use in air toxics modeling, etc.	• Sampling suspended this period, due to equipment failure • Equipment repaired and sampling resumed in 7/09	• --- • Ongoing
	e. Continue to operate the gas chromatographic mass spectrometer to quantify “Community Air Toxics” under EPA air toxics grant.	• Monitoring continues as scheduled	• 12/31/11
	f. Identify funding requirements and sources, as well as, staffing needed to fully utilize the air toxics analytical lab by 12/31/09.	• No activity this period	• ---
	g. Undertake new or special monitoring needs that may surface.	• No activity this period	• Ongoing
	2. Begin to integrate air toxics into future multi-pollutant (ozone/fine particulate/air toxics) modeling assessments to identify synergistic impacts of control strategies.	• On hold, low priority due limited resource	• Unknown

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	Identify potential harm from exposure to air toxics	12/31/09 Status	Expected Completion
2009	1. Characterize the cancer and non-cancer risks associated with 2003 modeled results.		
	a. Review DATAS Phase II results to determine impacts and prepare responses for anticipated questions concerning stationary sources with the release of the source apportionment information.	<ul style="list-style-type: none"> • DATAS Phase II Report has not been release to date 	<ul style="list-style-type: none"> • In 2010 ATSP
	b. Review DATAS Phase II findings and assess potential impact of dry cleaning and gasoline distribution air toxics on the public's health.	<ul style="list-style-type: none"> • DATAS Phase II Report has not been release to date 	<ul style="list-style-type: none"> • In 2010 ATSP
	c. Coordinate E&C responses to DATAS results with other AQM branches to ensure consistent responses.	<ul style="list-style-type: none"> • DATAS Phase II Report has not been release to date 	<ul style="list-style-type: none"> • In 2010 ATSP
	2. Continue to refine air toxics model for characterizing air toxics risks through utilization of applications in Sub-Grid Scale Variability (SGV).	<ul style="list-style-type: none"> • Coauthored and presented a technical paper on use of SGV in short and long term exposure assessments at the American Meteorological Society Annual Meeting on 1/15/09 • Coauthored a technical paper on stochastic parameterization of within-grid concentration variability of concentrations for presentation at the American Meteorological Society Annual Meeting on 1/21/10 	<p>---</p> <p>---</p>
	3. Identify and assess alternatives to DPH-provided risk assessments, when appropriate.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • Dropped from 2010 ATSP
	4. Implement alternative risk assessments, when appropriate.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • Dropped from 2010 ATSP
	5. Provide modeling support for DNREC's interest in a proposed multimedia total exposure study, pending the start up of the study.	<ul style="list-style-type: none"> • On hold, sponsors seeking funding for proposed total exposure study 	<ul style="list-style-type: none"> • In 2010 ATSP
	6. Characterize the cancer and non-cancer risks through future air toxics assessment programs.		
a. Complete DATAS Phase II modeling report by 3/31/09.	<ul style="list-style-type: none"> • Quality assurance review of initial modeling results identified some issues in emissions inventory • Resolved identified major emissions inventory issues by 12/09. • Remodeled Dover Air Force Base and New Castle County airport emissions in 12/09. 	<p>---</p> <p>---</p> <p>---</p>	

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	Identify potential harm from exposure to air toxics	12/31/09 Status	Expected Completion
2009	b. Coordinate ongoing risk assessment support and guidance of DPH for air toxics risk reduction activities.	<ul style="list-style-type: none"> • No requests for risk assessment support or guidance from Division of Public Health (DPH) were received this period 	<ul style="list-style-type: none"> • In 2010 ATSP
	c. Coordinate risk assessments needs and results for DATAS Phase II with DPH.	<ul style="list-style-type: none"> • Received DPH risk assessment results in 12/08 • Completed development of Risk Maps in GIS in 3/09 • Reviewed of GIS Risk Maps with DATAS team on 4/16/09 • Sent revised modeled concentrations for dioxins/furans to DPH in 3Q09 for updated risk assessments. • Sent revised modeled concentrations associated with Dover Air Force Base and New Castle County airport to DPH on 12/31/09 for updated risk assessments. 	<p>---</p> <p>---</p> <p>---</p> <p>---</p> <p>---</p>
	d. Initiate modeled assessment of the impact of mobile source air toxics in comparison to stationary and area source air toxics.	<ul style="list-style-type: none"> • On hold, pending completion of DATAS Phase-II Report 	<ul style="list-style-type: none"> • In 2010 ATSP
	7. Analyze monitoring data from completed special monitoring projects, i.e. AQM/UD, and refine air toxics model, if appropriate.		
	a. Continue analysis of data collected from E-DATAS projects.	<ul style="list-style-type: none"> • No activity this period (limited resources) 	<ul style="list-style-type: none"> • In 2010 ATSP
	b. Commence source apportionment analyses for air toxics with special attention to the following by 7/31/09:		
	i. Sources of air toxics of concern.	<ul style="list-style-type: none"> • On hold, pending completion of DATAS Phase II Report 	<ul style="list-style-type: none"> • In 2010 ATSP
	ii. Contribution of mobile sources versus stationary sources.	<ul style="list-style-type: none"> • On hold, pending completion of DATAS Phase II Report 	<ul style="list-style-type: none"> • In 2010 ATSP
	iii. Diesel particulate matter.	<ul style="list-style-type: none"> • On hold, pending completion of DATAS Phase II Report 	<ul style="list-style-type: none"> • In 2010 ATSP
	iv. Residential wood stoves.	<ul style="list-style-type: none"> • On hold, pending completion of DATAS Phase II Report 	<ul style="list-style-type: none"> • In 2010 ATSP

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	Gather information related to air toxics sources	12/31/09 Status	Expected Completion
2009	1. Develop emissions inventory protocol for the implementation of the 2008 NEI by 6/09.	<ul style="list-style-type: none"> • Completed in 5/09 	- - -
	2. Continue review of emission inventory inputs and/or assumptions for air toxics of concern as indicated by DATAS Phase II modeling and risk assessment results.	<ul style="list-style-type: none"> • Based on preliminary risk assessment results, completed a review of the inventory for several pollutants that appeared to produced unexpected results • During review of inventory, several inventory errors were identified, corrected, and submitted for re-modeling in 5/09 	- - -
	3. Commence working on source apportionment with the AQM modelers associated with the DATAS Phase II results.	<ul style="list-style-type: none"> • No activity this period 	• In 2010 ATSP
	4. Provide emissions inventory support to the air toxics education and reduction programs, as required.	<ul style="list-style-type: none"> • No request for support received during this period 	• In 2010 ATSP
	5. Track the emissions of air toxics of concern from significant sources contributing to elevated risks of exposure to air toxics.	<ul style="list-style-type: none"> • On hold pending identification of “target sources” 	• In 2010 ATSP
	6. By 12/09, identify and enter into AFS all new or previously unknown affected sources which are subject to any area source standards promulgated under 112(d) or 112(k) of the CAA.	<ul style="list-style-type: none"> • No federal standards promulgated during this period 	• Ongoing
	7. By 12/09, identify and enter into AFS all new or previously unknown affected sources which are subject to Perc Dry Cleaning standard (1138 Sect 5).	<ul style="list-style-type: none"> • Entered information on previously unknown sources found during Compliance Assistance Activities 	- - -
	8. Submit UST Semiannual Activities Reports to the EPA by April 30 and October 31, 2009.	<ul style="list-style-type: none"> • Submitted the April and October UST Semiannual Activities reports 	- - -
	9. Assist in the identification of known or potentially affected sources for newly promulgated area source standards, as needed.	<ul style="list-style-type: none"> • Reconfirmed potential miscellaneous parts and product affected sources on 6/5; providing environmental contacts to support Delaware’s adoption of Federal Sub HHHHHH • No applicable federal area source standards promulgated during this period 	- - - • In 2010 ATSP
	10. Evaluate screening needs and modify the air toxics model to provide a simplified screening tool by 6/30/09.	<ul style="list-style-type: none"> • On hold, pending completion of DATAS Phase II Report 	• In 2010 ATSP

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	Identify options for reducing air toxics in the environment	12/31/09 Status	Expected Completion
2009	1. Continue to monitor federal activities associated with the new Lead NAAQS.	<ul style="list-style-type: none"> • No required activities during this period • Continuing to follow Federal developments 	<p>---</p> <ul style="list-style-type: none"> • In 2010 ATSP
	2. Maintain open communications with Chamber of Shipping of America and the U.S.C.G. regarding any recent or impending changes in national or international shipping laws that might impact Section 46 of Regulation 1124.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • In 2010 ATSP
	3. Initiate and continue to include, where applicable, the mobile source air toxics issues in programs and activities, which previously addressed only criteria pollutants.		
	a. Participate in inter-agency consultation workgroup's conformity determinations for New Castle, Kent and Sussex Counties. Report status to EPA R3, as appropriate.	<ul style="list-style-type: none"> • Reviewed conformity determination at 6/9 workgroup meeting and recommended revisions using more recent data • Revisions were completed in 6/09 	<ul style="list-style-type: none"> • In 2010 ATSP
	b. Continue to provide comments and/or recommendations to the MPOs and DeDOT on the priority of funding projects with CMAQ funds. Report status to EPAR3, as appropriate.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • In 2010 ATSP
	c. Schedule presentation of the mobile source air toxics results following the release of the DATAS Phase II report.	<ul style="list-style-type: none"> • No activity as DATAS Phase II Report was not released 	<ul style="list-style-type: none"> • In 2010 ATSP
	4. Continue participation in OTC Clean Corridors and the Mid Atlantic Diesel Collaborative (MADC) projects and report status to EPA R3, if appropriate.	<ul style="list-style-type: none"> • Submitted grant application for diesel retrofit project through MADC in 3/09 (No award received) • Submitted both State and National Clean Diesel grant applications in 4Q09 for installation of retrofits to State and municipal heavy diesel vehicles 	<p>---</p> <ul style="list-style-type: none"> • In 2010 ATSP
	5. Develop a plan to promote smart growth oversight that encourages consideration of impact of mobile source emissions.	<ul style="list-style-type: none"> • Reviewed and made significant comments during update of Preliminary Land Use Service (PLUS) Application 	<ul style="list-style-type: none"> • In 2010 ATSP
	6. Determine timing and path forward for case-by-case MACT determination for Boiler MACT (Federal Sub DDDDD).	<ul style="list-style-type: none"> • Determined path forward in 5/09 • Updated 3 part case-by-case MACT application forms in 5/09 	<p>---</p> <p>---</p>
7. Begin to collect information to determine applicability of coating used by existing miscellaneous surface coating operations that are subject to the Paint Stripping and Miscellaneous Surface Coating Operations (Federal Sub HHHHHH).	<ul style="list-style-type: none"> • Completed identification of sources potentially affected under Section 14 (Misc Parts/Products) on June 15 	<p>---</p>	
8. Evaluate the need for the development of additional source category permits to address air toxics issues, ongoing.	<ul style="list-style-type: none"> • No needs identified during this period 	<ul style="list-style-type: none"> • In 2010 ATSP 	

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	Identify options for reducing air toxics in the environment	12/31/09 Status	Expected Completion
2009	9. Participate in development of the rulemaking strategy for		
	a. Area standard applicable to gasoline dispensing facilities (Federal Sub CCCCCC), if needed.	• AQM did not commence determination	• In 2010 ATSP
	b. Area standard applicable to Paint Stripping and Miscellaneous Surface Coating Operations (Federal Sub HHHHHH).	• Completed on 2/5/09 • The federal rule was broken up into 3 separate DE rules (Reg. 1138 Sections 13, 14 and 15)	---
	c. Area standard applicable to Paint Stripping and Miscellaneous Surface Coating Operations (Federal Sub HHHHHH).	• Completed on 2/5/09 • The federal rule was broken up into 3 separate DE rules (Reg. 1138 Sections 13, 14 and 15)	---
	10. Continue to evaluate federal stationary source rulemakings, communicate impacts internally and provide comments on the rules, as appropriate. Collaborate and maintain open communications with rulemaking involving joint responsibilities.		
	a. Newly proposed amendments to federal MACT and incinerator standards.		
	i. Federal Boiler and Process Heater MACT standard.	• No EPA proposed rule to date	• In 2010 ATSP
	ii. Federal Commercial and Industrial Solid Waste Incinerator standard.	• No EPA proposed rule to date	• In 2010 ATSP
	iii. Federal Hospital/Medical/Infectious Waste Incinerator standard.	• EPA finalized rule on 10/6/09; confirmed no affected DE sources; no further action necessary	---
	b. Newly proposed federal residual risk standards.		
	i. Federal Sub N (Chrome plating facilities).	• No EPA proposed rule to date	• In 2010 ATSP
	ii. Federal Sub RRR (Secondary aluminum smelters).	• No EPA proposed rule to date	• In 2010 ATSP
	iii. Federal Sub VVV (Publicly Owned Treatment Works).	• No EPA proposed rule to date	• In 2010 ATSP
	iv. Federal Sub III (Flexible Polyurethane Foam).	• No EPA proposed rule to date	---

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	12/31/09 Status	Expected Completion	
2009	Identify options for reducing air toxics in the environment 11. Continue to evaluate federal stationary source rulemakings, communicate impacts internally and provide comments on the rules, as appropriate. Collaborate and maintain open communications with rulemaking involving joint responsibilities.		
	a. Newly proposed federal area source standards under Section 112(k).		
	i. The last 9 proposed standards (diverse categories) are due to be promulgated by June 2009.	<ul style="list-style-type: none"> • EPA proposed Federal Sub ZZZZZZ on 2/9/09; no comments submitted (No affected DE sources) • EPA proposed Federal Sub CCCCCC on 6/1/09; no activity undertaken or comments submitted (limited resources) 	- - - - - -
	ii. Follow development of final set of federal 112(k) area source standards scheduled to be promulgated in June 2009.	<ul style="list-style-type: none"> • EPA finalized Sub ZZZZZZ on 6/25/09; (No affected DE sources) • EPA finalized 4 other area source standards in 4Q/09 that are likely to have affected Delaware sources 	- - - • In 2010 ATSP
	iii. Follow amendment of federal Reciprocating Internal Combustion Engines (Federal Sub ZZZZ) for existing area sources.	<ul style="list-style-type: none"> • EPA proposed on 3/5/09; no activity undertaken or comments submitted (limited resources) 	• In 2010 ATSP
	b. As each area source standard is being proposed, evaluate the impacts of pollution prevention implementation in that sector.		
	i. Paint stripping and miscellaneous coating at area sources (Federal Sub HHHHHH) includes auto body shops.	<ul style="list-style-type: none"> • The federal rule will be broken up into 3 separate DE rules (Reg. 1138 Sections 13, 14 and 15) • No activity this period 	- - -
	ii. Electric arc furnace steelmaking facilities at area sources (Federal Sub YYYYYY) from scrap steel suppliers' perspective.	<ul style="list-style-type: none"> • Regulatory path forward revised; Sub YYYYYY requirements to be incorporated into Title V permit • No activity this period 	- - -

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	Identify options for reducing air toxics in the environment	12/31/09 Status	Expected Completion
2009	12. Implement other air toxics-related communications and outreach programs.		
	a. Continue to participate in community/industrial air toxics outreaches and evaluate new opportunities.		
	i. Claymont Coalition.	• Participated, as needed	• Ongoing
	ii. Claymont Industrial Partnership Initiative.	• EPA scheduled no meeting or activities during this period	• Dropped from 2010 ATSP
	iii. Explore new outreach opportunities.	• Initiated outreach activities in communities near the Port of Wilmington	• Ongoing
	b. Continue to support Engineering and Compliance’s community/industrial air toxics outreach programs, when needed.	• No requests for support received this period	• In 2010 ATSP
	c. Commence development of educational program for AQM’s “Community Air Toxics” study by 12/09.	• No activity this period	• In 2010 ATSP
	d. Working with MARAMA and EPA R3, develop an outreach program for the Clean Diesel Campaign (CDC).	• Participated in the initial planning meeting to define the scope and element of the program • Explored Dept of Agriculture’s interest in participating in the CDC outreach; available resources currently assigned to higher priority educational activities	• In 2010 ATSP
	13. Identify grant and funding opportunities.		
	a. Facilitate the identification, preparation and submission for transportation-related grants or other funding.	• Submitted American Recovery and Reinvestment Act (ARRA) grant application in 3/09 • Notified of ARRA grant approval in 4/09 • Grant funding to be used for <ul style="list-style-type: none"> • Additional school bus diesel retrofits • Smyrna Rest Area truck stop electrification • Fort Delaware alternative power • City of Wilmington heavy diesel engine retrofits • Purchase orders for diesel retrofits issued in 3Q09	- - - • In 2010 ATSP - - -

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	Identify options for reducing air toxics in the environment	12/31/09 Status	Expected Completion
2009	14. Continue to identify resources and funding needed to implement air toxics communications and outreach programs.	• No activity this period	• Ongoing
	15. Work with and promote open communications with other branches, divisions and Department on energy efficiency/conservation opportunities and pursue funding opportunities for projects.	• Began working with Delaware Emergency Management Agency (DEMA) and the Public Service Commission (PSC) to improve the energy-related aspects of the emergency management plan	• In 2010 ATSP

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	12/31/09 Status	Expected Completion
2009		
1. Promote the implementation of mobile source air toxics reduction initiatives/programs.		
a. Working with other State and Regional agencies, actively promote implementation of the SmartWay Transport programs.	<ul style="list-style-type: none"> • Met with EPA R3 on 6/15 to plan outreach program and assess information availability • Completed SmartWay outreaches at <ul style="list-style-type: none"> • Delaware State Fair from 7/23-8/1 • Two Wilmington Blue Rock games in August • Bayshore “Lunch and Learn” program on 9/18 	<ul style="list-style-type: none"> • Ongoing <li style="text-align: center;">- - -
b. Continue to support of the SmartWay Transport programs, as appropriate.		
i. Issue request for proposal for the Smyrna Rest Stop Electrification project by 12/31/09.	<ul style="list-style-type: none"> • Request for proposal was issued on 11/30/09 • Proposals are due in 1Q10 	<ul style="list-style-type: none"> <li style="text-align: center;">- - - • In 2010 ATSP
ii. Monitor and report on activities conducted in support of the SmartWay Transport programs, as appropriate.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • In 2010 ATSP
c. If DATAS Phase II identifies mobile source-driven “hot spots”, initiate development of a mobile source air toxics reduction or education programs.	<ul style="list-style-type: none"> • DATAS Phase II results have not been release 	<ul style="list-style-type: none"> • In 2010 ATSP
2. Insure continued or improved compliance of stationary sources.		
a. Continue to perform full compliance evaluations (FCEs) of air toxics sources in accordance with the 6/29/07 compliance monitoring plan by 9/30/09.	<ul style="list-style-type: none"> • Completed 7 FCEs performed during this period • Completed 16 of 21 FCEs of air toxics facilities in the 6/29/07 CMP during the 2008-09 timeframe 	<ul style="list-style-type: none"> <li style="text-align: center;">- - - <li style="text-align: center;">- - -
b. Perform full compliance evaluations (FCEs) at area air toxics sources as follows:		
i. The three (3) chrome plating facilities, subject to 1138 Sect 6, covered during the 2008-09 timeframe.	<ul style="list-style-type: none"> • Two of 3 FCEs completed during the 2008-09 timeframe 	<ul style="list-style-type: none"> <li style="text-align: center;">- - -
ii. The two (2) halogenated solvent degreasers, subject to 1138 Sect 8, covered during the 2008-09 timeframe.	<ul style="list-style-type: none"> • No FCEs performed during the 2008-09 timeframe • One of 2 affected sources shutdown its vapor degreaser in 2008 	<ul style="list-style-type: none"> <li style="text-align: center;">- - -
iii. The one (1) hazardous waste combustor, subject to Federal Sub EEE, covered during the 2008-09 timeframe.	<ul style="list-style-type: none"> • Completed FCE at only affected source during the 2008-09 timeframe 	<ul style="list-style-type: none"> <li style="text-align: center;">- - -

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	12/31/09 Status	Expected Completion
2009		
Implement appropriate actions to reduce the harm from exposure to air toxics		
iv. The three (3) municipal solid waste landfills, subject to Federal Sub AAAA, covered during the 2008-09 timeframe.	<ul style="list-style-type: none"> • Completed FCEs at all affected sources during the 2008-09 timeframe 	- - -
v. The two (2) hospital ethylene oxide sterilization facilities, subject to 1138 Sect 9, covered during the 2008-09 timeframe.	<ul style="list-style-type: none"> • Completed FCEs at both affected sources during the 2008-09 timeframe 	- - -
vi. The one (1) lead acid battery manufacturing plant, subject to 1138 Sect 11, covered during the 2008-09 timeframe.	<ul style="list-style-type: none"> • Completed FCE at only affected source during the 2008-09 timeframe 	- - -
c. By 9/09, perform compliance evaluations (CE) at area air toxics sources as follows:		
i. 25% or ~20 perchloroethylene dry cleaning facilities subject to 1138 Sect 5; total population is ~80 facilities.	<ul style="list-style-type: none"> • Completed 19 compliance evaluations (or nearly 25% of total population) during this period 	- - -
ii. 25% or ~40 auto body refinishing shops subject to 1124 Sect 11; total population is ~160 facilities.	<ul style="list-style-type: none"> • Completed 93 consultation visits (or nearly 58% of the total population) during this period 	- - -
	<ul style="list-style-type: none"> • Provided compliance assistance information associated with 40 CFR Part 63 Subpart HHHHHH during consultation visits 	- - -
iii. 10% or ~60 gasoline delivery vessels (GDVs) for vapor tightness; total population is ~600 facilities.	<ul style="list-style-type: none"> • Completed perceptible leak tests during delivery transfers at gasoline stations on 178 GDVs (or ~30% of the permitted GDVs) during this period 	- - -
	<ul style="list-style-type: none"> • Continued to provide compliance assistance to GDV fleet owners in meeting annual testing and permitting requirements 	- - -
d. Track annual testing of Stage II vapor recovery system for gasoline dispensing facilities (GDFs) that are subject to vapor recovery requirements of Regulation 1124.	<ul style="list-style-type: none"> • Tracked the vapor recovery system testing of 291 GDFs (~84% of current GDFs) 	- - -
e. Conduct inspections at one-third (1/3) of the regulated gasoline dispensing facilities, subject to Regulation 1124, during 2009; total population is ~346 facilities.	<ul style="list-style-type: none"> • Conducted inspection at 127 regulated GDFs (~37% of regulated GDFs) 	- - -

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	12/31/09 Status	Expected Completion
2009		
f. Incorporate updated MACT and Residual Risk requirements in air permits.		
i. Renew expiring Title V permits to incorporate newly promulgated MACT and Residual Risk standards, as needed.	<ul style="list-style-type: none"> • Began to incorporate requirements of Subparts YYYYYY during renewal of Title V permit • Began to eliminate HON requirements during renewal of Title V permit as affected source no longer operational 	<ul style="list-style-type: none"> • 7/10 • 6/10
ii. Reopen Title V permits for cause to incorporate promulgated MACT and Residual Risk standards consistent with the requirements of Regulation No. 1130, as needed.	<ul style="list-style-type: none"> • No applicable federal standards promulgated 	<ul style="list-style-type: none"> • In 2010 ATSP
iii. Complete the case-by-case MACT determination for PVC MACT (Federal Sub J) for Formosa Plastics.	<ul style="list-style-type: none"> • Title V permit issued 	- - -
g. Incorporate area source standard requirements in air permits.		
i. Complete stringency determinations for		
1. Municipal Solid Waste Landfill (Federal Sub AAAA) requirements in the three current DSWA Title V permits.		
a. Assess impact of April 2006 amendment of Municipal Solid Waste Landfill (Federal Sub AAAA) on area sources requirements for the three DSWA Title V permits by 6/09.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • In 2010 ATSP
b. Develop path forward for implementation or revision of the three DSWA Title V permits by 9/09.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • In 2010 ATSP
c. Commence implementation of path forward by 12/09.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • In 2010 ATSP
ii. Hazardous Waste Combustor (Federal Sub EEE) requirements in current DuPont X Station Title V permit by 6/09.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • In 2010 ATSP
iii. Electric Arc Furnace (Federal Sub YYYYYY) requirements during renewal of Claymont Steel Title V permit by 12/09.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • In 2010 ATSP
iv. Iron and Steel Foundries (Federal Sub ZZZZZ) requirements during renewal of Claymont Steel Title V permit by 12/09.	<ul style="list-style-type: none"> • Determined that Subpart ZZZZZ was not applicable 	- - -
h. Incorporated area source standard requirements during renewal or reopening of Title V permits for		
i. Christiana Care – Christiana to include Hospital Ethylene Oxide Sterilizers (1138 Sect 9) requirements by 12/09.	<ul style="list-style-type: none"> • Began to incorporate requirements of 1138 Sect 9 into a 1102 construction permit • Title V permit issued on 10/27/09 	- - -

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	12/31/09 Status	Expected Completion	
2009	Implement appropriate actions to reduce the harm from exposure to air toxics		
	ii. Claymont Steel to include the Electric Arc Furnace (Federal Sub YYYYYY) requirements by 12/09.	<ul style="list-style-type: none"> • Began to incorporate requirements of Subpart YYYYYY during renewal of Title V permit 	<ul style="list-style-type: none"> • In 2010 ATSP
	iii. Claymont Steel to include the Iron and Steel Foundries (Federal Sub ZZZZZ) requirements by 12/09.	<ul style="list-style-type: none"> • Determined that Subpart ZZZZZ was not applicable 	- - -
	i. Incorporate area source standard requirements in air permits.		
	i. Incorporate area source standard requirements into new or existing natural and synthetic minor source permits for		
	1. Johnson Controls to include Lead Acid Battery Manufacturing Plant (1138 Sect 11) requirements by 9/09.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • In 2010 ATSP
	2. St. Francis Hospital to include Hospital Ethylene Oxide Sterilizers (1138 Sect 9) requirements by 12/09.	<ul style="list-style-type: none"> • No activity this period 	<ul style="list-style-type: none"> • In 2010 ATSP
	3. Perc Dry Cleaning facilities (1138 Sect 5) and issue by 7/09.	<ul style="list-style-type: none"> • Commenced updating the affected source inventory through cross referencing sources in various State databases • Identified levels of change needed to incorporate the risk-based provisions of 1138 Section 5 into existing operating permits 	<ul style="list-style-type: none"> • In 2010 ATSP
	j. Complete Compliance Assistance Activities consistent with the Compliance Assistance Oversight Plan for		
	i. Perc Dry Cleaning facilities (1138 Sect 5) by 9/09.	<ul style="list-style-type: none"> • Continuing to distribute the revised compliance calendar to new and existing facilities 	<ul style="list-style-type: none"> • 2010
k. Finalize development and begin implementation of Compliance Assistance Program for			
i. Miscellaneous Surface Coating of Mobile Sources (1138 Sect 15) by 12/09.	<ul style="list-style-type: none"> • Provided updated source inventory information in 12/09 to support the start of AQM's regulatory development activity • The development of the 1138 Sect 15 compliance assistance program was "On Hold", pending the start of regulatory development 	<ul style="list-style-type: none"> • 2010 	

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	Implement appropriate actions to reduce the harm from exposure to air toxics	12/31/09 Status	Expected Completion
2009	3. Continue to conduct anti-idling outreach programs for schools and the trucking industry and report status to EPA R3, as appropriate.	<ul style="list-style-type: none"> • Completed school bus anti-idling outreach at <ul style="list-style-type: none"> • Woodside Farm Creamery’s “Day on the Farm” event on 5/30 • Delaware State Fair from 7/23-8/1 • Coast Day on 10/3 	- - -
	4. Continue to collaborate with other DNREC agencies on educational outreach activities associated with promoting anti-idling for school buses.	<ul style="list-style-type: none"> • No activity this period 	• In 2010 ATSP
	5. Continue to work with other State agencies including DPH on air toxics communications and outreaches.	<ul style="list-style-type: none"> • No air toxics opportunities identified this period 	• In 2010 ATSP
	6. Provide support to Small Businesses on air toxics related issues.		
	a. Continue to encourage new participation and to provide assistance to Delaware marinas in obtaining voluntary compliance certification under the Clean Marina program.	<ul style="list-style-type: none"> • Provided assistance to 6 more pledged marinas during their preparation of Operating and Maintenance Plans, which are essential elements of the certification process 	• In 2010 ATSP
	b. Continue to support, as needed, the small business interest on the Claymont Industry Partnership Initiative.	<ul style="list-style-type: none"> • EPA has scheduled no activities to date 	• Dropped
	c. Continue to provide educational materials on asbestos demolition to the regulated community both directly and through to trade associations.	<ul style="list-style-type: none"> • Provided the updated asbestos educational information in English and Spanish during the period • On 6/5, distributed updated information during the Governor’s Entrepreneurial Business Conference • Contacted and arranged for the distribution of the updated information through the local and county government agencies that issue permits for renovation and demolition projects • Contacted and arranged for the distribution of the updated information through the Delaware Contractors Association • Provided updated information to the DAWM Environmental Crime Unit for distribution to contractors 	- - -

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	12/31/09 Status	Expected Completion
2009	<ul style="list-style-type: none"> • Met and encouraged participation during 3 site visits in 8/09 	• Dropped
<p>d. Continue to encourage new participation and provide assistance during the implementation of the Green Lodging program.</p> <p>e. Provide compliance assistance to auto-body shops (1138 Sect 15) and other affected small businesses (1138 Sect 14 & 15) during the initial development of the federal paint stripping and miscellaneous surface coating standard.</p>	<ul style="list-style-type: none"> • The federal rule will be broken up into 3 separate DE rules (Reg. 1138 Sections 13, 14 and 15) <ul style="list-style-type: none"> • Developed and began implementing a comprehensive communication program to assist auto-body (AB) shop business in their understanding and compliance with applicable federal and new Delaware air (1138 Sect 15) regulations; this program consisted of the following: <ul style="list-style-type: none"> • In 10/09, established an AB work group consisting of AB owners, AB suppliers, and State regulators to identify key issues and best communication practices • In 10/09, arranged for EPA to provide three “Collision Repair Training” programs”; one in each county. • In 12/09, notified AB business community of the <ul style="list-style-type: none"> • Upcoming “Collision Repair Training” opportunity • Upcoming Regulatory Public Workshops for 1138 Sect 15 • Need to submit Federal Notification by 1/11/10 • In 12/09, provided compliance assistance tools to the AB business community through <ul style="list-style-type: none"> • New web page for the “Collision Repair Training” • Providing improved federal notification form 	<p style="text-align: center;">- - -</p> <p style="text-align: center;">- - -</p> <ul style="list-style-type: none"> • 1/13/10 • 1/13/10 • 2/25/10 • 1/11/10 <li style="text-align: center;">- - -

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

Implement appropriate actions to reduce the harm from exposure to air toxics		12/31/09 Status	Expected Completion
2009	7. Provide support to Small Businesses on air toxics related issues.		
	a. Continue to assist Air Quality Management by providing new relevant asbestos educational materials (e.g. Spanish text) and assisting with the asbestos website update.	<ul style="list-style-type: none"> • Completed in 1/09 • Updated content of asbestos educational materials • Additionally published updated educational materials in Spanish • Updated information on DNREC's asbestos websites 	---
	8. Identify and implement at least one new opportunity to increase the public awareness of actions that the public can take to reduce their risk exposure to air toxics, including appropriate P2 programs.		
	a. DATAS Phase II Report Release.	<ul style="list-style-type: none"> • DATAS Phase II Report has not been release to date 	---
	9. Improve compliance with Delaware's open burning requirements.		
	a. Identify and assess options that would clarify the requirements in Regulation 1113 by 3/31/09.	<ul style="list-style-type: none"> • Completed assessment of options in 1/09 	---
	b. Implement the preferred option by 10/31/09.	<ul style="list-style-type: none"> • No activity; awaiting determination of the preferred option 	• Unknown
	c. Continue to educate the public on Delaware's open burning restrictions.	<ul style="list-style-type: none"> • Issued press releases prior to the 2009 open burning season • Issued press release following the open burning season to reinforce the year-round prohibition from burning certain materials (e.g. leaves, household garbage, etc) • Continue to educate public through one on one contacts 	<p style="text-align: center;">---</p> <p style="text-align: center;">---</p> <p style="text-align: center;">• Ongoing</p>
10. Develop a public outreach associated with the implementation of the revised statewide enhanced low inspection and maintenance (I/M) program.	<ul style="list-style-type: none"> • Development of public outreach program remains "On Hold" pending resumption of regulatory activities 	• In 2010 ATSP	

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	12/31/09 Status	Expected Completion
<p style="text-align: center;">Implement appropriate actions to reduce the harm from exposure to air toxics</p> <p>2009 11. Implement at least one new opportunity to increase small business awareness of actions that small businesses can take to reduce risk from exposure to air toxics including regulatory and P2 programs.</p>	<ul style="list-style-type: none"> • Commenced working with Air Quality Mgt on a program to reduce diesel emissions • In 2/09, notified over 200 individuals and small business entities; encouraging them to consider <ul style="list-style-type: none"> • Diesel engine upgrades, • Diesel retrofits, or • Other anti-idling alternatives • Developed and began implementing a comprehensive communication program to assist auto-body (AB) shop business in their understanding and compliance with applicable federal and new Delaware air (1138 Sect 15) regulations 	<ul style="list-style-type: none"> • Ongoing <li style="text-align: center;">- - - • In 2010 ATSP
12. Coordinate Air Toxics Area Source Program for newly promulgated area source standards or revised area source standards.		
<p>a. Coordinate the identification of known or potentially affected sources, update the area source inventory and send inventory report to EPA by 3/09 and 9/09.</p>	<ul style="list-style-type: none"> • Two Federal area source standards were promulgated in the reporting period (40 CFR Part 63 Subparts 6Ys and 6Zs) • No reporting actions required as there are no Delaware affected sources 	- - -
<p>b. Coordinate the development and incorporation of new and newly revised (includes residual risk and existing source RICE standards) standards into the Area Source Program – Implementation Plan as part of the Air Toxics Strategic Planning process.</p>	<ul style="list-style-type: none"> • No new or newly revised Delaware applicable area source standards were promulgated 	<ul style="list-style-type: none"> • In 2010 ATSP
<p>c. Update the Area Source Program – Implementation Plan, as needed.</p>	<ul style="list-style-type: none"> • Area source program revised in Jan. <ul style="list-style-type: none"> • Timing of adoption of Federal Sub HHHHHH was pushed back several month's to coordinate with VOC rules applicable to similar sources • Timing of adoption to Federal Sub WWWWWW was started earlier than planned • Area source program was revised in Nov for 2010 – 2014 during annual strategic planning process 	<ul style="list-style-type: none"> <li style="text-align: center;">- - - • In 2010 ATSP

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	12/31/09 Status	Expected Completion	
2009	Implement appropriate actions to reduce the harm from exposure to air toxics		
	13. As regulations, especially area source standards, are promulgated, evaluate the role of the ombudsman to facilitate interactions between AQM and small businesses.		
	a. Gasoline dispensing facilities at area sources (Federal Sub CCCCCC includes gasoline stations).	<ul style="list-style-type: none"> • Regulatory schedule revised; this rule has been postponed • No regulatory activity this period 	<ul style="list-style-type: none"> • In 2010 ATSP
	b. Electric arc furnace steelmaking facilities at area sources (Federal Sub YYYYYY) from scrap steel suppliers' perspective.	<ul style="list-style-type: none"> • Regulatory path forward revised; Sub YYYYYY requirements to be incorporated into Title V permit, instead of a rulemaking • No activity this period 	<p style="text-align: center;">- - -</p> <ul style="list-style-type: none"> • Unknown
	c. Plating and polishing facilities at area sources (1138 Sect 10).	<ul style="list-style-type: none"> • Participated in the Public Workshop on 6/9 • Assisting in the development and content of compliance assistance from the perspective of the small business owner • On 5/19, completed the Regulatory Advisory Service consultation for potential new business subject to air toxics regulations under Reg. 1138, including Sect 10 	<p style="text-align: center;">- - -</p> <ul style="list-style-type: none"> • 10/09 <p style="text-align: center;">- - -</p>
	14. Submit delegation package for		
	a. Lead Acid Battery Manufacturing Facilities (1138 Sect 11) by 3/09.	<ul style="list-style-type: none"> • Completed on 6/9/09 	<p style="text-align: center;">- - -</p>
	b. Hospital Ethylene Oxide Sterilizer Facilities (1138 Sect 9) by 6/09.	<ul style="list-style-type: none"> • Completed on 6/18/09 	<p style="text-align: center;">- - -</p>
	c. Plating and Polishing Operations (1138 Sect 10) by 3Q10.	<ul style="list-style-type: none"> • Completed on 11/30/09 	<p style="text-align: center;">- - -</p>
	15. Adopt new and amend existing air toxics regulations for mobile and stationary sources.		
a. Assist in initial stringency determination between Federal Sub CCCCCC vs. existing Delaware regulations by 6/09.	<ul style="list-style-type: none"> • AQM did not commence rulemaking strategy activity 	<ul style="list-style-type: none"> • In 2010 ATSP 	
b. Complete initial stringency determination between Federal Sub CCCCCC vs. existing Delaware regulations by 6/09.	<ul style="list-style-type: none"> • No activity this period; resources shifted to Federal Sub HHHHHH 	<ul style="list-style-type: none"> • 3/31/10 	

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	12/31/09 Status	Expected Completion	
2009	Implement appropriate actions to reduce the harm from exposure to air toxics		
	c. Finalize the rulemaking strategy for		
	i. Area standard applicable to Paint Stripping and Miscellaneous Surface Coating Operations (Federal Sub HHHHHH) by 3/09.	<ul style="list-style-type: none"> • Completed on 2/5/09 with the federal rule will be broken up into 3 separate DE rules (Reg. 1138 Sections 13, 14 and 15 	- - -
	ii. Area standard applicable to Gasoline Distribution Facilities (Federal Sub BBBBBB) by 9/09.	<ul style="list-style-type: none"> • No activity this period; resources shifted to Federal Sub HHHHHH 	• 3/31/10
	iii. Area standard applicable to Gasoline Dispensing Facilities, if needed, (Federal Sub CCCCCC) by 9/09.	<ul style="list-style-type: none"> • No activity this period; resources shifted to Federal Sub HHHHHH 	• 3/31/10
	d. Submit Start Action Notice for		
	i. Diesel Chip Reflash regulation by 12/31/09.	<ul style="list-style-type: none"> • No activity this period 	• Dropped
	ii. New Smoking Vehicle regulation by 12/31/09.	<ul style="list-style-type: none"> • No activity this period 	• 2013
	iii. Area standard applicable to Paint Stripping and Miscellaneous Surface Coating Operations (Federal Sub HHHHHH) by 6/09.	<ul style="list-style-type: none"> • Completed on 7/8/09 with the federal rule broken up into 3 separate DE regulations <ul style="list-style-type: none"> • SAN submitted on 3/25/09 for Section 13 (Paint Stripping) • SAN submitted on 3/25/09 for Section 14 (Misc Parts/Products) • SAN submitted on 7/8/09 for Section 15 (Motor Vehicles) 	- - - - - - - - -
	iv. Area standard applicable to Plating and Polishing Operations (Federal Sub WWWWWW) by 9/09.	<ul style="list-style-type: none"> • Completed with SAN submitted on 2/20/09 as Section 10 of Reg. 1138 	- - -
	v. Area standard applicable to Gasoline Distribution Facilities (Federal Sub BBBBBB) by 12/09.	<ul style="list-style-type: none"> • No activity on SAN this period; resources shifted to Federal Sub HHHHHH 	• 4/30/10
	vi. Area standard applicable to Gasoline Dispensing Facilities, if needed, (Federal Sub CCCCCC) by 12/09.	<ul style="list-style-type: none"> • No activity on SAN this period; resources shifted to Federal Sub HHHHHH 	• 4/30/10
	vii. Residual risk standard applicable to Halogenated Solvent Degreasers (1138 Sect 8) by 12/09, if EPA finalizes reconsideration.	<ul style="list-style-type: none"> • No activity on SAN this period 	• 1Q/11
	e. Complete stringency determinations for		
	i. Hospital Ethylene Oxide Sterilizer Facilities (1138 Sect 9) by 1/09.	<ul style="list-style-type: none"> • Completed on 2/19/09 	- - -
f. Amend Regulation 1131 to expand the low enhanced inspection and maintenance (I/M) program statewide by 12/31/09.	<ul style="list-style-type: none"> • Amendment “On Hold” pending finalization of the Ozone NAAQS 	• 3Q10	

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	12/31/09 Status	Expected Completion	
2009	Implement appropriate actions to reduce the harm from exposure to air toxics		
	g. Adopt Delaware applicable area source standards under Section 112(k) into Regulation 38 prior to federal existing source compliance dates.		
	i. Area standard applicable to Hospital Ethylene Oxide Sterilizers (1138 Sect 9) by 3/09.	• Completed on 2/1/09	- - -
	h. As each residual risk and area source standard is being developed, evaluate the need for and implement outreach or education activities, if appropriate.	• Determined there was no need for outreach to support adoption of 1138 Sections 10, 13, 14, or 15	• In 2010 ATSP
	16. Implement a “Smoking Vehicle Reduction Program”.		
	a. Initiate baseline testing of smoking vehicles by 12/31/09.	• No activity this period	• Dropped
	b. Develop and produce outreach materials and program to support baseline testing of smoking vehicle by 12/31/09.	• Awaiting regulatory activity	• 2013
	c. Continue to maintain diesel emissions opacity instrumentation training program.	• No activity this period	• Unknown
	17. Continue to audit I/M program and submit annual I/M report to EPA R3, if appropriate.	• I/M Report issued in 8/09	- - -
	18. Facilitate the implementation of diesel retrofits.		
	a. Complete Red Clay School District bus retrofits by 3/31/09.	• Installations completed in 1/09	- - -
	b. Complete Port of Wilmington retrofits by 12/31/09.	<ul style="list-style-type: none"> • Program is underway • Completed installation of diesel retrofits in 4Q09 • Request for proposals was issued on 3Q09 • Release purchase orders for engine replacements 	<ul style="list-style-type: none"> <li style="text-align: center;">- - - <li style="text-align: center;">- - - • 1Q10
	19. Pursue potential joint outreach/educational opportunities with the Delaware Energy Office.	• Determined that there is interest in joint outreach activities; however, DEO resources are currently over committed	• In 2010 ATSP
	20. Continue to identify and implement energy efficiency programs for the residential and commercial sectors. Energy efficiency programs include:		
	a. Energy efficiency/conservation education, outreach, technical assistance.	<ul style="list-style-type: none"> • Completed energy-related outreaches • Great Green Expo on 3/21 • Delaware State Fair from 7/23-8/1 • Delaware Electric Cooperative’s Annual Meeting on 8/11 • Coast Day on 10/3 	- - -
b. Complete the close out of the Energy An\$wers Program by 3/31/09.	• Completed close out	- - -	

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	12/31/09 Status	Expected Completion	
2009	Implement appropriate actions to reduce the harm from exposure to air toxics		
	c. Reassess continuation of the Energy Star Program	<ul style="list-style-type: none"> • Low priority; incorporated in other programs 	• Dropped
	d. Sustainable Energy Utility – SEU	<ul style="list-style-type: none"> • Completed infrastructure development • Introduced Appliance Rebate Program in 9/1/09 • Introduced the Commercial Lighting Efficiency Program on 12/15/09 • Began development of the Residential Energy Efficiency Program • Began expanding the Commercial Efficiency Program into other applications 	<p style="text-align: center;">- - -</p> <p style="text-align: center;">- - -</p> <p style="text-align: center;">- - -</p> <ul style="list-style-type: none"> • 3Q10 • 3Q10
	e. Home Performance	<ul style="list-style-type: none"> • Continued to implement training and certification program for Energy Auditors <ul style="list-style-type: none"> • Training provide 3/30 to 4/2 • Training provided 6/8 to 6/11 • Transferred Energy Auditor Program to Delaware Tech 	<p style="text-align: center;">- - -</p>
	21. Continue to identify and implement state facilities energy programs. State facilities energy programs include:		
	a. Utility Accounting	<ul style="list-style-type: none"> • Implementation assigned to Office of Management and Budget (OMB) 	• In 2010 ATSP
	b. Energy Saving Performance Contracting	<ul style="list-style-type: none"> • Implementation assigned to Office of Management and Budget (OMB) 	<p style="text-align: center;">- - -</p>
	c. Electricity Procurement	<ul style="list-style-type: none"> • No activity; in the third year of 3-year contract 	• In 2010 ATSP
	d. Energy Executive Order	<ul style="list-style-type: none"> • Submitted the Energy Plan to the Governor’s Office on 3/26 	<p style="text-align: center;">- - -</p>
	22. Continue to identify and implement renewable and advanced energy technologies. Renewable and advanced technologies include:		
a. Green Energy Program			
i. Photovoltaic Electric	<ul style="list-style-type: none"> • Awarded 130 grants for \$4,680,000 	<p style="text-align: center;">- - -</p>	

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	12/31/09 Status	Expected Completion
2009		
Implement appropriate actions to reduce the harm from exposure to air toxics		
ii. Photovoltaic Hot Water	<ul style="list-style-type: none"> • Awarded 9 grants for \$26,500 	---
iii. Geothermal	<ul style="list-style-type: none"> • Awarded 53 grants for \$137,000 	---
iv. Wind	<ul style="list-style-type: none"> • Awarded 1 grants for \$6,000 	---
b. Technology Demonstration/Research & Development Grant Program	<ul style="list-style-type: none"> • No grants awarded this period 	---
c. Renewable Portfolio Goals	<ul style="list-style-type: none"> • Continued to monitor the achievement of goals 	---
23. Continue to identify and implement transportation programs. Transportation programs include:		
a. Clean State Program – focusing on greater use of alternative transportation fuels	<ul style="list-style-type: none"> • Showcased the alternative fuel vehicle at . . . • Great Green Expo on 3/21 • Bayshore “Lunch and Learn” program on 9/18 	---
24. Continue to provide air toxics-related support to State through. . .		
a. Reviewing of air permits.	<ul style="list-style-type: none"> • Reviewed and commented on a construction permit for a new area source hospital ETO sterilizer in May 	• Ongoing
b. Providing current regulatory interpretations.	<ul style="list-style-type: none"> • Provided technical information on MACT hammer rule 	• Ongoing
c. Advising on likely future trends and actions.	<ul style="list-style-type: none"> • Continued to advise AQM Section on developments concerning the “Boiler MACT” and 112(j) implications 	• Ongoing
d. Continue to provide technical support, as needed, to . . .		
i. Engineering & Compliance Branch in their implementation of the “Boiler MACT” case-by-case MACT determinations.	<ul style="list-style-type: none"> • Updated Delaware’s MACT Hammer Application Forms for use by affected boiler or process heater sources 	---

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

Implement appropriate actions to reduce the harm from exposure to air toxics		12/31/09 Status	Expected Completion
2009	25. Implement Air Toxics Area Source Program		
	a. Complete stringency determinations for		
	i. Area standard applicable to Paint Stripping and Miscellaneous Surface Coating Operations (Federal Sub HHHHHH) by 1Q/10.	<ul style="list-style-type: none"> • Determination made for the <u>initial draft</u> on 5/28/09 for Section 13 (Paint Stripping) • Determination made for the <u>proposed draft</u> on 11/25/09 for Section 14 (Misc Parts/Products) • No activity this period on Section 15 (Motor Vehicles) 	<ul style="list-style-type: none"> • 6/30/10 • 1/31/10 • 6/30/10
	ii. Area standard applicable to Plating and Polishing Operations (Federal Sub WWWW) by 1Q/10.	• Completed on 11/5/09	- - -
	b. Finalize the adoption of area source standards for		
	i. Paint Stripping and Miscellaneous Surface Coating Operations (Federal Sub HHHHHH) by 2Q/10.	<ul style="list-style-type: none"> • Initial draft language completed on 5/13/09 for Section 13 (Paint Stripping) • Initial draft language completed on 5/28/09 for Section 14 (Misc Parts/Products) • Initial draft language completed on 11/23/09 for Section 15 (Motor Vehicles) 	<ul style="list-style-type: none"> • 9/1/10 • 3/1/10 • 9/1/10
	ii. Plating and Polishing Operations (Federal Sub WWWW) by 2Q/10.	• Completed on 11/1/09	- - -

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	Evaluate the effectiveness of the actions taken to reduce harm from exposure to air toxics	12/31/09 Status	Expected Completion
2009	1. Monitor, pending network review to meet changing resources, for Carbonyls and metals at one (1) air toxic monitoring station and VOCs at two (2) air toxic monitoring stations and report status of monitoring activities to EPA R3, as appropriate. .	• Monitoring is progressing as scheduled	• Ongoing
	2. Track the emissions of air toxics of concern from significant sources contributing to elevated risks of exposure to air toxics.	• On hold pending identification of “target sources”	• In 2010 ATSP
	3. Complete evaluation of conversions made under the voluntary diesel chip reflash program.	• No activity this period	• Dropped
	4. Continue to look for and track, if found, appropriate “air toxics indicators” to gauge progress in reducing air toxics.	• No appropriate indicator found in this period	• Dropped from 2010 ATSP
	5. By September, complete a self-assessment of major stationary source air toxics reduction and outreach programs undertaken or in progress to determine effectiveness, impacts, and improvements. Incorporate results into the respective programs.	• Initiated discussion for additional reduction of multi-pollutants (incl. Hg) from EGUs under 25MW	• 2010
	6. By September, complete a self-assessment of major mobile source air toxics reduction and education programs undertaken or in progress to determine effectiveness, impacts, and improvements. Incorporate results into the respective programs.	• No activity this period	• Dropped
	a. School and trucking industry anti-idling outreach programs.	• No activity this period	• Dropped
	b. Anti-idling compliance and enforcement program.	• No activity this period	• Dropped
	c. Voluntary diesel chip reflash conversion.	• No activity this period	• Dropped
	d. Mobile source air toxics reduction or education programs addressing hot spots.	• DATAS Phase II results have not been release	• Dropped

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

	Air toxics resource development	12/31/09 Status	Expected Completion
2009	1. Evaluate available training and encourage broader participation in risk-related training.		
	a. Continue to identify air toxics related training, workshops and forums; encourage participation, when appropriate.	<ul style="list-style-type: none"> • On Hold, as travel restrictions currently limit participation • Arranged viewing of “Air Toxic Webinars” in Conference Room on 4/30 and 6/25 	<ul style="list-style-type: none"> • Unknown • Ongoing
	b. Participate in national and EPA air dispersion modeling programs or training specific to air toxics characterization.	<ul style="list-style-type: none"> • Completed review of a New Jersey study addressing exposure to air toxics and other air pollutants • Co-authored technical paper on New Jersey personal exposure results published in the May 2009 “Atmospheric Environment” 	<p>---</p> <p>---</p>
	c. Evaluate the need for air toxics-related training for staff and present, as needed.	<ul style="list-style-type: none"> • Attended “Air Toxic Webinars” at Grantham on 4/30 and 6/25 	<ul style="list-style-type: none"> • Ongoing
	d. Determine if recently promulgated air toxics standards (MACT, Residual Risk or Area Source GACT) should be presented to staff.	<ul style="list-style-type: none"> • No promulgated standards warranted presentation 	<ul style="list-style-type: none"> • Ongoing
	2. Develop and implement mechanisms to improve air toxics communications.		
	a. Continue to implement newly found mechanisms to improve air toxics communications between branches.	<ul style="list-style-type: none"> • No new mechanism found this period 	<ul style="list-style-type: none"> • Ongoing

2009 - 2013 Air Toxics Strategic Plan – Year End Detailed Status

Air toxics resource development	12/31/09 Status	Expected Completion
<p>3. Continue to promote open communications between DNREC and small businesses on air toxics issues.</p>	<ul style="list-style-type: none"> • Distributed air toxics and other educational information at the 6/05/09 Governor’s Entrepreneurial Business Conference • Coordinated the Regulatory Advisory Service consultation for potential new business subject to air toxics regulations under Reg. 1138 • Worked with Air Quality Mgt to encourage individuals and small businesses to reduce diesel emission through <ul style="list-style-type: none"> • Diesel engine upgrades • Diesel retrofits • Other anti-idling alternatives (i.e. electrification) • In 10/09, established an auto-body (AB) work group consisting of AB shop owners, AB shop suppliers, and State regulators to identify key issues and to determine the best way for the State to present information on the new regulation to be adopted in 2010 	<p style="text-align: center;">- - -</p> <ul style="list-style-type: none"> • Ongoing • Ongoing <p style="text-align: center;">- - -</p>