

**DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF AIR QUALITY**

**FY 2011 END OF YEAR REPORT**

1. Develop and implement appropriate SIPs for all areas of the state.

**Measures:**

- a. State develops all State Implementation Plan revisions required to meet federal law and submits them to EPA for their review and approval according to the established timeframe.

**STATUS:** *Utah has submitted an SO<sub>2</sub> Maintenance Plan, a Regional Haze SIP and SIP amendment, an 8-Hour Ozone Maintenance Plan, and 110(a)(2)d Plans to EPA. Utah has made significant progress in the development of SIP revisions for the new PM<sub>2.5</sub> NAAQS.*

- b. The State identifies a possible funding source to facilitate development of multiple major SIP revisions simultaneously as necessitated by EPA's concurrent revision of the PM<sub>2.5</sub>, ozone, NO<sub>2</sub>, and SO<sub>2</sub> National Ambient Air Quality Standards.

**STATUS:** *The funding has not been indentified.*

- c. All measures contained in the SIP approved by the Air Quality Board are fully implemented.

**STATUS:** *Utah has implemented all control measures contained in plans submitted to EPA.*

2. Develop and improve appropriate inventories.

**Measures:**

- a. The Title V inventory is prepared by August 15.

**STATUS:** *The Title V inventory was prepared by the specified date.*

- b. Required inventory data is entered into the NEI by June 1.

**STATUS:** *EPA changed the date the inventory upload is required to December 30<sup>th</sup> of this year. The 2010 emissions inventory is on track to be uploaded to the NEI by the specified date.*

- c. Non-HAP/non-Criteria/non-MACT regulated pollutants are inventoried as required by federal rules.

**STATUS:** *The Non-HAP/non-Criteria/non-MACT regulated pollutants inventory will be prepared by the specified date.*

- d. The inventories required for the Maintenance Plans and SIPs are developed as required and appropriate technical support for each is submitted to EPA for their review with the applicable plan.

**STATUS:** *The required periodic SIP inventories (e.g., O3 and RH SO2) were prepared by the specified dates, and appropriate technical support was provided to EPA with each plan.*

- 3. Continue to meet federal requirements for PSD increment tracking.

**Measures:**

- a. Increment consumption for major sources is tracked as permits are issued.

**STATUS:** *Class I and Class II increment analyses were completed for all PSD permit applications.*

- 4. Maintain an adequate ambient air quality monitoring program meeting the requirements of 40 CFR Part 58 to assess public exposure to air pollutants and to establish the attainment status.

**Measures:**

- a. The annual Monitoring Network Plan is completed and submitted to EPA by June 30. Evaluate monitoring network to reflect recent changes in funding and national monitoring requirements to optimize the network.

**STATUS:** *The annual monitoring network plan was submitted to EPA on August 1, 2011 following a 30-day comment period and subsequent revisions. The current monitoring plan is available for public review.*

- b. The PM2.5 monitoring network is maintained and operated as appropriate funding is received from EPA.

**STATUS:** *The PM2.5 monitoring network was maintained and operated.*

- c. Monitoring data are submitted to EPA 90 days after each quarter.

**STATUS:** *The monitoring data were generally submitted to EPA 90 days after each quarter; however, as a result of DEQ's migration to a new data collection system, some data were not submitted within 90 days.*

- d. Locations for new monitoring sites are based on current emission inventories, air quality modeling and EPA regulation.

**STATUS:** *A new short term monitoring site was established at Fruitland as part of a three year study following consultation with EPA and other federal agencies. In addition, monitoring has commenced at the Vernal station in support of a multi-agency wintertime ozone study in the Uintah Basin. The Cottonwood station and Highland stations were removed from the network this year.*

- e. Staff works with EPA to assess the impacts of changes to 40 CFR 58, and continue planning for the implementation of those changes (National Monitoring Strategy/Ncore Monitoring Network).

**STATUS:** *The NCORE required monitoring started January 1, 2011.*

- f. The National Air Toxics Trends site in Bountiful is operated in accordance with NATTS QAPP with appropriate updates.

**STATUS:** *The National Air Toxics Trend site in Bountiful is operating. Samples have been collected and submitted to EPA's contract lab. The data have been reviewed and approved for submittal into EPA's AQS data base.*

- g. UDAQ will prepare and submit to EPA an appropriate response to each identified NAAQS violation.

**STATUS:** *UDAQ and EPA are using the current monitoring data to propose the attainment status for each area in Utah. As monitored exceedances of the NAAQS are identified that are influenced by exceptional events, appropriate data flags are being applied, and supporting documentation submitted to EPA for review and concurrence. As nonattainment areas are identified, appropriate State Implementation Plans will be developed to address the issues causing the nonattainment status.*

- h. The annual certification of 2009 data is completed by the revised May 1, 2010 annual certification date.

**STATUS:** *UDAQ certified the 2010 data on September 6, 2011.*

- i. Continue participation in the Three-State Pilot Study with two major tasks: 1) initiate and continue to operate the Price ozone/meteorological site with a goal of collecting 3 years of Federal regulatory data using existing EPA funds and anticipated Federal Land Manager funds in FY11/12; and 2) provide staff and other support to the Three-State data warehouse and modeling efforts as the project design matures and funding allows.

**STATUS:** *Monitors in Price and Fruitland are up and running in support of the study.*

- 5. Maintain the compliance status of air pollution sources in the state.

**Measures:**

- a. By November 15, prepare and submit to EPA for review and approval the compliance monitoring strategy incorporating the provisions of EPA's April 25, 2001 Clean Air Act Stationary Source Compliance Monitoring Strategy.

**STATUS:** *The Compliance Monitoring Strategy for FFY 2010 was submitted to USEPA Region VIII on October 18, 2011.)*

- b. Asbestos notification, certification and outreach programs are continued, and at least 120 on-site inspections are performed.

**STATUS:** *Asbestos notification, certification and outreach programs were operated and inspections were performed at 233 sites.*

- c. The work program for the AHERA Toxic Substances Compliance Monitoring Grant is continued. The AHERA Grant Work Plan approved by EPA Region VIII will be the environmental measure of success for the Utah AHERA Program.

**STATUS:** *The AHERA Grant work program was completed and reported in a separate report.*

6. Protect public health and the environment through implementation of the Utah Lead-Based Paint Certification, Accreditation and Work Practices Program.

**Measures:**

- a. The Utah Lead-Based Paint Grant Work Plan approved by EPA Region VIII will be the environmental measure of success for the Utah Lead-Based Paint Certification, Accreditation and Work Practices Program.

**STATUS:** *The Utah Lead-Based Paint Grant work program was completed and reported in a separate report.*

- b. Support the EPA Strategic Plan and the EPA Region VIII goal to eliminate childhood lead poisoning as a public health concern by reducing to 0 the number of cases of children (aged 1-5 years) with elevated blood-lead levels (>10 µg/dl).

**STATUS:** *The Utah Lead-Based Paint Program supported the EPA Strategic Plan goal to eliminate childhood lead poisoning by certifying individuals and firms conducting regulated work activities, performing inspections at structures where regulated abatement work activities were being performed, and performing inspections at renovation firms subject to the Lead-Based Paint Pre-Renovation Education rule requirements.*

- c. Support the EPA Strategic Plan and the EPA Region VIII goal to reduce to 28 percent the difference in the geometric mean blood lead level in low-income children 1-5

years old as compared to the geometric mean for non-low-income children 1-5 years old.

**STATUS:** *The Utah Lead-Based Paint Program supported the EPA Strategic Plan goal to reduce the childhood geometric mean blood level by certifying individuals and firms conducting regulated work activities, performing inspections at structures where regulated abatement work activities were being performed, and performing inspections at renovation firms subject to the Lead-Based Paint Pre-Renovation Education rule requirements.*

7. Implement the Operating Permits Program meeting the current requirements of Title V, CAAA 1990, and the Utah Air Conservation Act.

**Measures:**

- a. An Operating Permits Program is continued as described in program approval from EPA.

**STATUS:** *The Operating Permits Program has been implemented as outlined in the program approval from EPA. The Title V Permits have been issued as expeditiously as possible.*

- b. The provisions of the Acid Rain Act and 40 CFR Part 72 and Part 76 are implemented.

**STATUS:** *The implementation of 40 CFR Parts 72 & 76, and the Acid Rain Act are ongoing.*

8. Continue issuing approval orders for new sources and modifications of the existing approval orders.

**Measures:**

- a. Air quality modeling is completed to ensure the protection of the NAAQS and PSD increment ceilings in Class I and Class II areas.

**STATUS:** *Air quality modeling was completed for major and minor source applications according to R307-410-3.*

- b. BACT/LAER determinations are either entered into the RACT/BACT/LAER Clearinghouse or the information is provided to EPA so they can enter the data.

**STATUS:** *This is an ongoing process that is performed continually.*

9. Quality Assurance programs are reviewed for effectiveness.

**Measures:**

- a. Statistical quality standards are met for the collection of ambient air data and emissions inventories prepared by the State.

**STATUS:** *On-going – All statistics were collected for site inspections, monitoring, inventory, etc. following the existing QA protocols.*

- b. Rules, regulations, procedures, policies, and protocols are complied with.

**STATUS:** *UDAQ complies with all rules, regulations, procedures, policies and protocols.*

- c. Regulatory activities are documented, including the appropriate technical support.

**STATUS:** *All commitments were met or exceeded. Data to verify that commitments were met is in AIRS. A quantitative summary of accomplishments is contained in the FY2011 CMS.*

- d. The State and EPA agree on the adequacy of air program results.

**STATUS:** *UDAQ and EPA Region VIII confer regularly on the results of the air program implementation.*

- 10. Maintain the small business environmental assistance program (SBEAP) to actively assist small businesses to comply with rules of the Board.

**Measures:**

- a. Educational Assistance is offered to all small businesses affected by adopted NSPS and MACT standards.

**STATUS:** *All business sectors are aided. Resources are provided including the mailing of 133 compliance assistance calendars sent to all dry cleaners to help them comply with the NESHAP requirements.*

- b. As appropriate, the Small Business Compliance Advisory Panel's role is modified to increase the effectiveness of the SBEAP.

**STATUS:** *Ongoing. The SBEAP continues to work to challenge the panel to be involved.*

- c. On-site assistance is provided when requested.

**STATUS:** *Assistance is provided to businesses when needed.*

- d. The small business work plan for the Small Business Compliance Advisory Panel is modified as appropriate to better meet assistance needs.

**STATUS:** *The work plan is modified at each panel meeting.*

- e. Assistance tracking is modified as appropriate to better provide and measure assistance needs.

**STATUS:** *The SBEAP is reviewing assistance provided and reviewing business needs to provide better quality assistance to the regulated community.*

- 11. Continue to implement R307-204, Smoke Management, the Utah Smoke Management Plan (SMP), and MOU to mitigate smoke impacts from managed natural fires and prescribed fire on visibility, public nuisance, and the health-based NAAQS.

**Measures:**

- a. Necessary burn approval and denial decisions made by the Smoke Program Coordinator and Executive Secretary are coordinated with partner agencies.

**STATUS:** *UDAQ coordinated 40 large burn projects by federal land management agencies.*

- b. The rules and SIP are revised as needed to implement revisions to the FLM burn policies and practices, particularly regarding Use of Wildland Fire issues.

**STATUS:** *UDAQ gave comments to the FLMs on FLM-proposed revisions the rules, and is waiting for a response from the FLMs.*

- 12. Work with EPA to obtain federal actions on the backlog of State submittals.

**Measure:**

- a. Appropriate assistance is provided to EPA staff responsible for completing federal action on each submittal to facilitate final EPA action on each.

**STATUS:** *Regular support is provided to EPA staff assigned to this project, including retrieving documents from Archives and sending copies of materials to EPA.*

- 13. Implement designated facility plans, NSPS, NESHAPS, MACTs, CTGs and RACT.

**Measure:**

- a. MACT Standards that apply to sources in Utah are adopted and implemented through the Operating Permit process as they are developed and promulgated by EPA.

**STATUS:** *Additional MACT standards were adopted into the Utah Air Rules (R307-214-2) during 2011. MACT requirements are included in Title V permits as they are promulgated by EPA.*

- b. NSPS standards that apply to sources in Utah are adopted and implemented through the permit process as they are developed and promulgated by EPA.

**STATUS:** *New and revised MACT and NSPS standards continue to be adopted in Utah and implemented through the permit process.*

- c. Rules implementing specific source RACT are developed and implemented as appropriate.

**STATUS:** *New and revised RACT requirements are implemented through the permit process as appropriate.*

- d. RACT determinations included in the Ozone Maintenance Plan and PM10 SIP are reviewed and updated as appropriate.

**STATUS:** *The RACT requirements were last reviewed as the 8-Hour Ozone Plan was developed, during which RACT requirements for Hill were clarified, improved, and tied to the federal requirements such as MACT, etc. All other RACT determinations in the ozone plan were reviewed and retained or strengthened. That maintenance plan was submitted to EPA for review and comment, but no federal action has been taken on the plan. RACT requirements in the PM10 SIP are currently being reviewed and updated as part of the PM2.5 SIP development.*

- e. UDAQ staff participates in EPA regional meetings and conference calls which will focus on sharing information and building state capacity to identify, characterize and address air toxics risks in Utah communities based on available resources.

**STATUS:** *DAQ staff have attend conferences and workshops and participated in EPA regional meetings and conference calls to help identify, characterize and address air toxics in Utah communities as funding permits.*

- f. The work to conduct community outreach and analysis concerning air toxics issues is completed based on UDAQ needs and available resources.

**STATUS:** *Community outreach and air toxics analysis was performed based on community needs.*

- 14. Continue to submit monitoring data to EPA as required by EPA.

**Measures:**

- a. Quality assured ambient air pollution data is submitted to AIRS no later than 90 days after each calendar quarter.

**STATUS:** *Quality assured ambient data were submitted to EPA's AQS within 90 days after each quarter.*

- b. Data precision and accuracy assessments are submitted to AIRS no later than 90 days after each calendar quarter.

**STATUS:** *The submittal of the P&A data were delayed beyond the 90 day period after each quarter.*

- c. The database is monitored on an ongoing basis for accuracy and completeness.

**STATUS:** *The data base was monitored continuously for accuracy and completeness.*

- d. Data summary reports are printed for regulatory and public use as appropriate.

**STATUS:** *Data summary reports were prepared and printed for Board, regulatory and public use.*

- 15. Respond to questions from the public regarding air quality issues.

**Measure:**

- a. Ambient air quality data is provided to the AirNow Program.

**STATUS:** *Ambient Air quality data was provided to the AirNow program.*

- 16. Work with other state / federal / local agencies to reduce diesel emissions in Utah.

**Measure:**

- a. Complete the school bus retrofit project.

**STATUS:** *Utah school bus retrofit was completed on June 30, 2011. The Utah Clean School Bus project retrofitted nearly 1,200 school buses throughout the state. We found some residue funds that will be used to retrofit an additional 10 to 20 buses that serve charter or private schools. These additional retrofits will be completed by March 31, 2012.*

- b. Implement the currently funded school bus replacement program and agriculture equipment replacement and re-power program and the installation of APUs for long-haul and agriculture-related trucking, and apply for additional funding through DERA.

**STATUS:** *The Utah school bus replacement program helped purchase 27 new school buses. This replacement program was completed on March 31, 2011. The agriculture retrofit project was completed on September 30, 2010. This project provided partial funding to repower 22 engines, replace 9 tractors, and install 32 APUs.*

- 17. Continue participation in the Three-State Pilot Study with two major tasks:

**Measures:**

- a. Initiate and continue to operate the Price ozone/meteorological site with a goal of collecting 3 years of Federal regulatory data using existing EPA funds and anticipated Federal Land Manager funds in FY11/12; and

**STATUS:** *The Price monitor has completed its first year of data collection with the quality controlled data being submitted to the EPA AIRS data system. The real-time data is published to the UDAQ web site for public use.*

- b. Provide staff and other support to the Three-State data warehouse and modeling efforts as the project design matures and funding allows.

**STATUS:** *A staff person was hired to assist the 3-State Project Manager in the development of emissions inventories and other data needed to complete the project.*

### **EPA's Portion of the PPA**

1. EPA Region VIII will work with other affected EPA offices when appropriate to consider various approaches to addressing specific issues that impact Utah.
2. EPA Region VIII will participate in UDAQ Board Meetings when specific issues regarding the partnership between EPA Region VIII and UDAQ are part of the agenda and travel funds permit.

### **Items Related to UDAQ Planning Branch Activities**

1. EPA Region VIII will work with UDAQ as necessary and appropriate when reviewing SIP submittals and initial designation requests as the NAAQS are revised to clarify issues and communicate actions that may affect Utah.
2. EPA Region VIII will work with EPA HQ when appropriate to help elevate issues to the national level that are uniquely western issues.
3. EPA Region VIII will give timely attention to any intermediate work products that are developed in the SIP process so as to provide UDAQ its feedback during project development rather than at the end.
4. EPA will make every effort to determine completeness and to take final action on regulatory actions submitted by Utah in accordance with statutory time frames considering existing resources.
5. EPA Region VIII and UDAQ will work together to prioritize existing SIP submittals and on identifying upcoming SIP revisions. EPA Region VIII will keep UDAQ informed on the status of actions.
6. EPA Region VIII and UDAQ will work together to pursue any feasible early action initiatives for PM<sub>2.5</sub>.

7. Following review of the Federal Annual Air Quality Report, EPA Region VIII and UDAQ will work together to develop appropriate actions addressing each identified NAAQS violation for any criteria pollutant.

#### **Items Related to UDAQ Permitting Branch Activities**

1. EPA will provide review and comments as appropriate for the ITAs within the 30-day public comment period.

#### **Items Related to UDAQ MACT Compliance and Enforcement Activities**

EPA Region VIII, Office of Enforcement, Compliance and Environmental Justice and Utah Division of Air Quality will work to keep each other informed of important and potentially controversial activities involving regulated sources in Utah, including activities involving national and regional initiatives. EPA continues to implement PSD/NSR and MACT national initiatives in the refinery, coal-fired power plant, Portland cement, sulfuric and nitric acid and glass industry sectors; a national leak detection and repair (LDAR) and flare initiative; and a regional oil and gas industry sector initiative.