

## 8-Hour Ozone Air Quality Plan SIP Schedule Status

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### Background

- EPA classified the Washington region as "moderate" nonattainment area (5/04)
- Deadline to submit a plan: June 15, 2007
- MWAQC's SIP schedule:
  - Draft SIP in January 2007
  - Public Hearings in February & March
  - Approve SIP in April

	Fall 2004	Winter 2004	Spring 2005	Summer 2005	Fall-Winter 2005	Spring-Sum 2006	Fall-Winter 2006	Spring 2007
Control Measure Development								
Preliminary identification of new local measures								
Preliminary identification of regional controls (reduce transport)								
Adopt preliminary control strategy								
Public Meetings on control measures								
Adopt control strategy								
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Modeling Analysis								
Set-up, testing								
Finalize protocol document								
Strategy analysis								
Complete attainment modeling								
Complete Weight of Evidence								
Inventory Development								
2002 Base Year, Submit to EPA								
Projection year for 2009								
Prelim. Emission Reduction Requirements								
Modeling inventories for attainment								
Develop RFP 2008 inventory								
Conformity								
Complete final 1-hour conformity								
Complete 8-hour conformity FY2005-2010 TIP								
Complete 8-hour conformity FY2006-2011 TIP								
Develop 8-hour mobile budgets(SIP)								
SIP Submittal								
Public Meetings on control strategy								
Draft SIP Template								
Prepare Draft Attainment SIP/Regl Air Quality Plan								
Adopt Draft Attainment SIP (MWAQC) 1/07								
Public Hearings					<b>†</b>			
Approve SIP/Regional Air Quality Plan (12/06-1/07)								
Transmit SIP to IAQC 1/07								
States Submit SIP to EPA					ĺ			3
SIP Deadline: June 15, 2007								

### Missing Pieces

- 1. Modeling results that demonstrate the region will attain (<85 ppb) by 2009
- 2. Contingency measures for RFP 2008 RPF and attainment 2009
- 3. Commitments to "voluntary," nonregulatory measures

#### 1. Attainment Demonstration

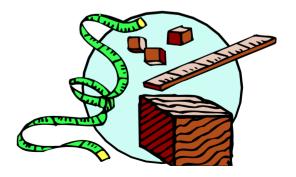
 Attainment demonstration modeling: range is important (82 – 87 ppb)

 Other statistical evidence ("weight of evidence") based on air quality data will be considered

### **Preliminary Analysis**

- "On the Books" and "On the Way" controls reduce emissions >21%
- More Reductions are needed to meet 8 hr standard.





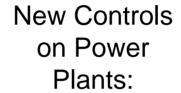
## Additional Future Control Case Modeling

- Identify & quantify additional control emissions
- Run control case model to test these control strategies
- Perform attainment test (using Relative Reduction Factors)
- Repeat process as needed to demonstrate attainment

## Control Strategy to Reach Attainment



Consumer Products



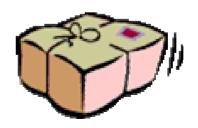
CAIR, MD Healthy Air Act



Adhesives and sealants



Fuel Containers



Voluntary Bundle

### Status of Modeling



- OTC Modeling: Results of modeling new control measures available this week
- Virginia DEQ will use new inventories to model future case
- Attainment modeling results for Washington region: report in December

# 2. Contingency Measure Requirement

Must total 3% of adjusted 2002 base year inventory for both RFP and attainment

VOC: 0.3% = 1.3 tpd VOC

NOX: 2.7% = 15.3 tpd NOx

# Option for Contingency Measure: 2010 Mobile Budget > 10 tpd?

- Reductions from mobile sources that are above and beyond reductions needed for RFP and attainment, 2010 mobile budget
  - Tier 2 Motor Vehicle Emission Standards
  - Heavy Duty Diesel Engines Rule (2004, 2007)

### Alternative Options, <10 tpd

- Architectural & Maintenance Coatings Rule Phase 2 (OTC proposal)
- Additional Power Plant controls
- Industrial/Commerical/Institutional Boiler Standards
- MSW Incinerator Controls
- Distributed Generation Rule
- Health Air Act benefits, (2012)

### **Analysis of Options**

- 2010 mobile budget option
  - Staff is developing numbers
  - Potential reductions not yet known
  - Expect estimated reductions by November
- Other options

Need combination of measures to meet 15 tpd NOx requirement



# 3. Commitments to Local Initiatives ("Bundle")



- School Bus Retrofits
- Wind Energy Purchases
- Renewable Portfolio Standards
- LED Traffic Signal Retrofits
- Alternative Vehicle Purchases
- Low VOC Paints
- Energy Performance
   Contracting (solar for schools)

Diesel Collaborative







#### Commitment Requirements



**Signed Letter** 



**Program Details Estimate of Benefits** 



Program
Effectiveness
Report

Agree to monitor program and provide annual reports on program participation/effectiveness



### Schedule for Remaining Pieces

- November
  - New modeling results
  - Estimated benefits from 2010 mobile budget/contingency measure

- December
  - Jurisdictions send commitment letters to states

#### Draft SIP Schedule

- Technical Advisory Committee will review draft SIP in November
- Comments, new modeling results will be incorporated in December
- Draft SIP to MWAQC in January