Status of The Second Prospective Section 812 Benefit-Cost Analysis of the Clean Air Act

Council Review Meeting
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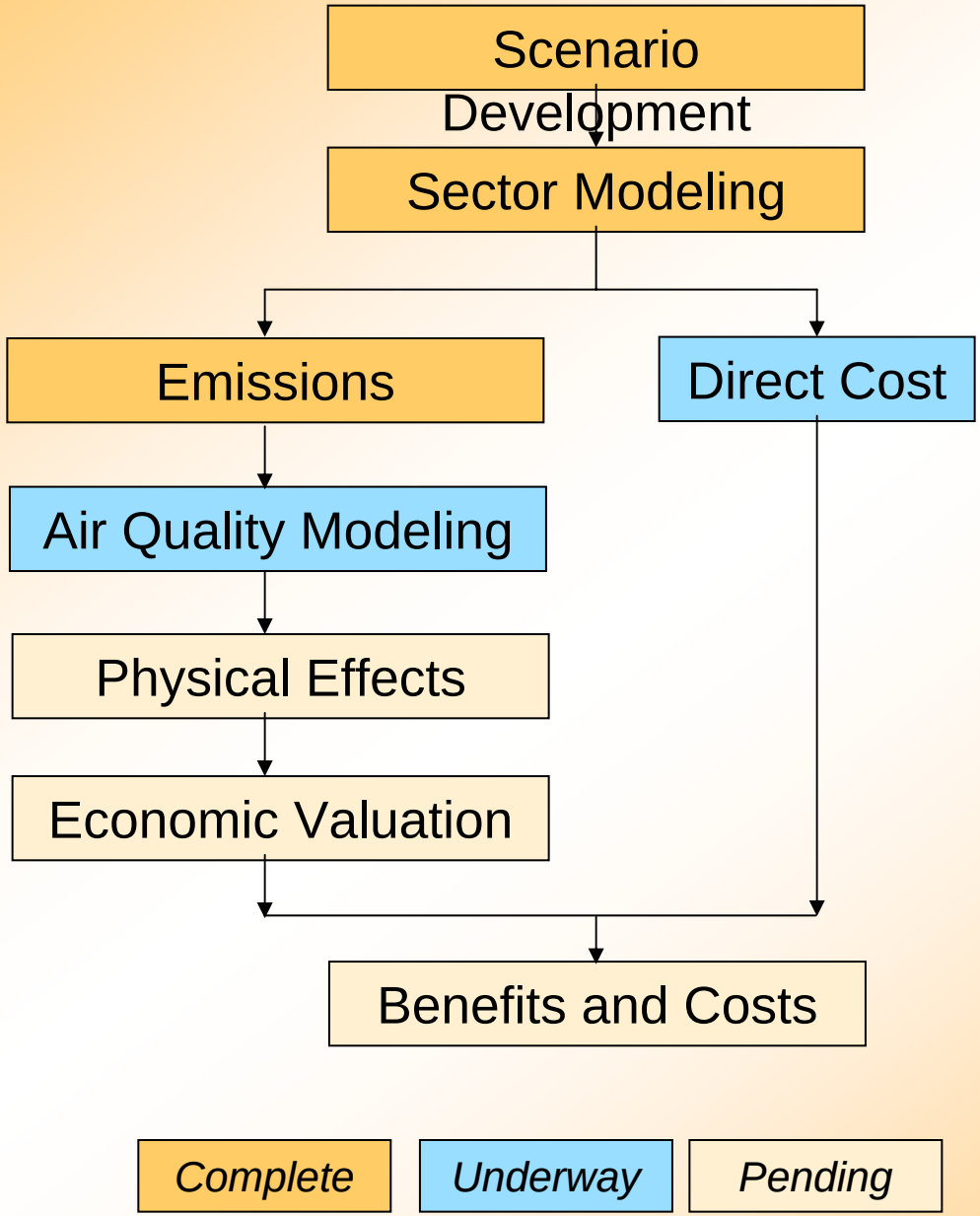
Jim DeMocker
Office of Air and Radiation



Scenarios:

Core
Hi Econ Growth
Lo Econ Growth
Sector Elimination

Off-Line
HAP case study
Eco lit review
Eco case study
Title VI reanalysis
Uncertainty
CGE modeling

Emissions

- Air Quality Model Inputs Delivered
  - Local and unidentified measures locked, apportioned
- Emissions Inventory Supplements Underway
  - Intradecadal trajectories
  - Regionalization of emissions
- Documentation
  - Report revisions to document final methodologies
  - Results summaries and metadata

Cost

- Direct Cost Finalization Underway
  - Adjustments for learning effects
  - Intradecadal trajectories
  - Regionalization of costs (with caveats)
  - Private expenditures for CGE inputs
  - Documentation of final methodologies
  - Results summaries and metadata
- CGE Model Run Planning
  - Inputs being generated
  - Model selection pending
  - Considering incorporation of benefits
    - Example: labor productivity

Air Quality Modeling

- SMOKE Processing
  - All but two inventories finished
- CMAQ Runs
  - 7 core scenarios: 1990 base, 2000, 2010, 2020
  - 36-km runs complete
  - 12-km Eastern US: 1990 and 2000 complete, rest by June
  - 12-km Western US: two nearing completion, all by July
- RSM Runs
  - Core scenario runs for comparison to CMAQ
  - Sector-specific incremental effect runs
  - Other sensitivity and alternative analyses
    - Example: high / low economic growth cases

Ecological Benefits

- Literature Review
  - Update previously completed review
- Ecological Effects Case Studies
  - Adirondacks
  - Maine lakes

Title VI Analysis

- ⇨ Extend to 2020
- ⇨ Update Controls Programs
- ⇨ Update RIAs for Costs
- ⇨ Run AHEF for Benefits

Uncertainty Analysis

- Scenario or General Uncertainty
  - Economic growth sensitivity analysis using RSMs
  - Revised sector disaggregation: small increments
- Emissions and Air Quality Uncertainty
  - Emissions and Air Quality Experts Workshop
  - Comparison of CMAQ vs RSM for core scenarios
  - Alternative year 2000 no-CAAA90 EGU estimates
- Health Effects Uncertainty
  - Sensitivity analyses for select key factors
    - Examples: differential PM toxicity, cessation lags
  - Test use of dynamic population model
- Cost Uncertainty
  - Quantitative analysis of select key cost uncertainties
    - Examples, I/M costs, fleet composition, learning effects
  - Assessment of alternative unidentified measure cost caps

http://www.epa.gov/oar/sect812/

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Office of Air and Radiation