

**Interagency NAAQS Workshop Meeting Notes
October 17 and 18, 2007**

Participant Contact Information

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- Air Quality Modeling – Norm Possiel & Pat Dolwick
 - Mitch Baer would like to see the counties that do not achieve the current standard after controls are applied.
 - Mitch Baer would like to see a discussion in the RIA of why the secondary standard was not analyzed for this RIA and why.
 - **Response:** We will generate model estimates of the incremental impacts of the control strategy on W126 levels. How it will be presented in the RIA is to be determined.
 - Rob Johansson would like to see a discussion in the RIA of the changes in the emissions platform and AQ modeling platform.
 - **Response:** We will discuss these changes in our model platform documentation, and will reference this documentation in the RIA
 - Indur Goklany asked question regarding GeosChem model validation
 - Predictions, accuracy, and bias of the air quality model
 - **Response:** Is provided as part of RIA write-up

- Emissions Modeling – Rich Mason
 - Land Use Model
 - What is the source of the BELD3 land use data used as input for the biogenics modeling?
 - **Response:** Rich Mason provided a draft paper including figures and tables on this to Indur Goklany on 10/23.
 - Emissions Growth
 - Doug will provide the white paper on the review of emissions growth to the group.
 - **Response:** Go to <http://www.epa.gov/ttn/ecas/articles.html> , under heading of 'Working Papers', see paper: **Chappell, Linda.** (2006), "[Improving EPA Emissions Forecasting For Regulatory Impact Analyses](#)"
 - Vehicles from Mexico in U.S. fleet mix
 - Does the US onroad inventory account for fleet characteristics in border states/counties including Mexico vehicles?
 - **Response:** All VMT in the U.S. inventory is assumed to be U.S. certified vehicles.
[Note that while NAFTA, signed in 1993, allows Mexican trucks to eventually use a large portion of U.S. roads, in practice Mexican trucks have been limited to commercial border zones, requiring transfers of goods being shipped from Mexico to the United States. This may be in the process of changing.]

- Other Items
 - Previous ABCG Regulatory Analyses
 - Will provide the link to the ECAS website to the interagency group to illustrate the breadth and depth of previous EIAs and RIAs.
 - **Response:** Go to <http://www.epa.gov/ttn/ecas/reports.html> , click on link to [Economic Impact Analyses](#) or [Regulatory Impact Analyses](#)

- Historical examples of economic impact analyses from Larry to Ron, Rob, and Stefan.

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- Control Strategies & Engineering Costs – Darryl Weatherhead, Larry Sorrels, David Misenheimer, Kevin Culligan, Serpil Kayin
 - Concern regarding EMPAX output price changes and EGU sector
 - Kevin and EMPAX Team will look at IPM price changes and EMPAX price changes and see how and why they may differ.
 - Cost curves and cut-points
 - Will provide difference in NOx NonEGU Point and Area cost/ton of \$15,000/ton to \$23,000/ton. Both percentage of emissions controlled and cost.
 - Present:
 - What controls get most reductions
 - What controls cost the most
 - What is cost, cost/ton for each control
 - Control Strategy Data
 - Mitch Baer would like to get more detailed data on the controls by sector. Darryl, Serpil, and David will provide detailed summaries for ozone final once we brief the interagency on the 070 controls and results.
 - IPM
 - Stefan would like the underlying data for IPM, Kevin will discuss with him offline.
 - Mitch Baer would like the emissions by sector before and after each control strategy, like the bar charts from proposal. Information to reveal how each sector is being controlled (i.e., not just hitting EGU's hard).
- Economic Impacts Modeling – Larry Sorrels & Tom Walton
 - Rob asked which solver we use in GAMS
 - Rob Johansson brought up that OMB will have major issues with EPA using EMPAX for Ozone Final if extrapolated costs are not included in the economic impact modeling.
 - Rob Johansson wants to see a discussion of Labor migration assumptions, and he stated the discussion was skewed in the proposal RIA towards the beneficial effects.
 - Amy Farrell raised the issue of including household healthcare costs in the bundle of goods for households.
 - Ron stated that this is an area of research we will be looking into, but isn't ready for inclusion in our regulatory analysis.
- Extrapolated Costs – Tom Walton & Darryl Weatherhead
 - Rob Johansson takes objection to using the SAB guidance for use in RIA's since it was developed for 812. He states that fundamentally 812 analysis objectives differ from RIA objectives.
 - Bryan stated that the SAB has stated and acknowledges that 812 and RIAs have similar applications.

- Indur Goklany asked about the amount of emissions captured by the current 17 sectors in EMPAX. What change do we expect as a result of moving to more sectors?
 - Indur Goklany – what about doing bounding of the estimates for extrapolated costs.
 - General comment that option 1 of not costing out controls is not an option.
 - Rob Johansson wants to see Marginal Cost Curves again. Indur Goklany agrees, due to increasing marginal cost nature of applying pollution control.
 - Ron states that MC may be used for some areas, in complement to other strategies.
 - We do not plan on only giving one individual number; we will estimate a few different alternatives.
 - Stefan wants to impose a tax on emissions that is connected to economic activity. The size of the tax is equal to the marginal cost. Shadow pricing.
 - Extrapolated Costs and Economic Impacts Together
 - Rob Johansson and Ron will schedule a meeting for next week to keep this discussion going.
- Benefits Modeling – Neal Fann
 - Harvey Richmond and John Langstaff were present to lend their health effects expertise to the BenMAP discussion.
 - Rob asked for links to VSL SAB and IOM Ozone mortality panel - Neal with Bryan
 - **Response:** Links are as follows -
- SAB advice on valuing mortality:
<http://www.epa.gov/sab/pdf/sab-08-001.pdf>
- IOM report on using QALY's:
<http://www.iom.edu/CMS/3809/19739/32029.aspx>
- NAS ozone mortality panel:
<http://www8.nationalacademies.org/cp/projectview.aspx?key=48768>
- Ancillary Analyses – Nathalie Simon
 - UV-b and Cost-Effectiveness Analysis
 - John Langstaff will send Amy Farrell information on Vitamin D and ozone.
 - Nathalie to provide work assignments on UV-b and cost effectiveness analysis to Mitch Baer.