

**EAST TEXAS COUNCIL OF GOVERNMENTS  
NETAC TECHNICAL ADVISORY COMMITTEE**

**Wednesday, March 27, 2013  
CONFERENCE CALL  
10:00 AM CST**

**MINUTES OF MEETING**

**1. Call to Order: Jim Mathews, NETAC General Counsel**

The meeting was called to order at 10:03 AM

**2. Roll Call: Julie Burnfield, ETCOG Economic Development Lead**

Technical Advisory Committee Present

- Jim Mathews, NETAC General Counsel
- Dale Booth, TxDOT
- Rick Hanning, Luminant
- Doug Boyer, TCEQ
- Brian Foster, TCEQ
- David Duncan, Luminant
- Scott Snedden, Westlake Chemical Company
- Jack Holsomback, TCEQ
- Kelly Spencer, AEP-SWEPCO
- Kimberly Hughes, AEP-SWEPCO
- Carrie Paige-EPA
- Eric Snyder, EPA
- Robert Ray, City of Longview

Others Present

- Greg Yarwood, ENVIRON
- Sue Kemball-Cook, ENVIRON
- Julie Burnfield, ETCOG
- Amnon Bar-Ilan, ENVIRON
- Allison DeuBleyker, ENVIRON

**3. Introduction to meeting: Jim Mathews**

Jim Mathews stated the following: there are a number of studies available for the Committee's review on the NETAC website and the ozone model and the gas compressor engine study should be available for review in the near future. The reports will be presented more completely at the next face to face meeting which will probably take place in the April/May timeframe. There are three items to be covered in today's conference call, the first two are updates and the third is the substantive item.

#### **4. Update on 2012 work plan reports: ENVIRON**

Sue Kemball-Cook of ENVIRON presented this agenda item. Ms. Kemball-Cook stated the following: work has concluded on the 2012 work plan and there are a number of reports available for the committee to review. The material from these reports will be presented at the next in person NETAC meeting. The reports available are the Conceptual Model Update Report, a SOF study report, a report on the 2010 event trigger study done at CAMs 19, a report on the Haynesville Shale Emissions Inventory update, a report on the update to the ozone model, an emission inventory for day specific wildfire events in 2005, and a report on heavy-duty truck idling. They expect to post reports on the gas compressor engine and ozone modeling study shortly.

#### **5. Update on 2013 work plan activities: ENVIRON**

Sue Kemball-Cook of ENVIRON presented this agenda item. Ms. Kemball-Cook stated the following: The first activity in the work plan is an update of the conceptual model of ozone formation in North East Texas. This update will take us through the 2012 ozone season. So far they have completed their analysis of the 2012 ozone season and have put together a presentation that will be displayed at the next meeting. They are also going through the general update of the conceptual model. This is a report that will summarize the recent modeling, inventory development, and analysis of ambient data through the 2012 ozone season.

ENVIRON is also doing a review of TCEQ's 2008 Emission Inventory and will also be doing some ozone modeling which will include work on the performance of the model. While analyzing the June 2006 ozone model we found that the model performed pretty well but it overestimated much of the ozone levels and episodes throughout Texas. They are working on improving model performance for the 2006 episode. During 2012 they took the existing June 2005 ozone model and brought it to align with TCEQ's model. There was also a high bias shown after these tasks were completed so ENVIRON is still working on improving performance on that model as well.

They will be evaluating the impact of the updated Haynesville Shale Mobile Source Emission Inventory and will be using those model results to guide the development of control strategies. The control strategy development is the last technical task for 2013.

Greg Yarwood of ENVIRON stated that they should consider both the 2005 and 2006 models together for their control strategies.

#### **6. Discussion and approval of plan document and operator survey for the Haynesville Shale Mobile Source Emission Inventory (2013 Work Plan Task 2.1): ENVIRON**

Amnon Bar-Ilan of ENVIRON presented this agenda item. Mr. Bar-Ilan stated the following: this study is focusing on mobile source emissions from the Haynesville Shale development. In the past ENVIRON has been involved in a couple rounds of

development of inventory for the Shale but those have really focused on the point area sources and focused on the drilling rigs themselves. There is a lot of information out there from other development areas that says there could potentially be a lot of mobile source activity such as trucking and bringing materials, supplies, and moving equipment in the development of shale gas or other unconventional resources. The focus of this study is to try to fill the gap in information and try to get an understanding of the scale magnitude of emissions that could be associated with the mobile source sector.

We are planning to develop a full calendar year inventory focusing on the criteria pollutants of the mobile sources associated at the Haynesville. The base year will be 2012 (to line up with the new modeling that will be conducted) and the scope will be to cover the Shale area but to the extent that some of these adjacent counties (in Texas or Louisiana) are destinations or sources for some of the trips we are going to be looking at, those would also be included.

Surveys are essentially asking for information that is representative of activity for different types of activities associated with different development. The methodology begins with surveys to operators (a survey instrument has already been developed) and is aimed at breaking down the area that we are interested in into the phases of the production life; from well life, to explorations, to drilling and completion activities that would involve any hydraulic fracturing. In each case we are targeting the same group of companies that have been targeted in the past for area point source inventories. The people will be sent the survey and asked for typical information for each of these activities.

The key is that this is a trip based inventory so we recognize the complexity of trying to develop a more length based approach to the mobile source inventory. For this first pass we are aiming to at first get a feel for the magnitude of the emissions (done on a trip basis). We are trying to determine how many trips and then the associated mileage that goes with each of the previously mentioned activities. The goal is to find out how significant this source category is when compared to other point and area sources. We do recognize that we may need to do some gap filling and there are some back up sources of data to help with this.

Once we get survey data we will build the inventory by developing per activity information and then scaling it by appropriate surrogates (how many wells were drilled etc). Then we would use that information to scale up the activity so we can get the Haynesville-wide activity. The inventory will track on road and off road sources as well as fugitive dust emissions (which do not really affect our area but are easy and not expensive to include). The final step will include preparing the inventory for modeling as well as using information from any existing inventories that have already done work such as this.

Dale Booth asked if there are travel demand models for the Haynesville Shale area and Allison DeuBleyker of ENVIRON answered that no, there are no such models for that area. Jim Mathews asked what the response has been for similar studies in other areas and what ways are there to incentivize such responses. Amnon Bar-Ilán stated that there

were 3 responses of 10 surveys that had been sent out in previous work he had done. Incentives for returning surveys may have include a raffle for an ipad etc. Doug Boyer asked how many of the respondents were not the large companies. Amnon Bar-Ilan said in the past they have targeted percentage of ownership and that is what they plan to do again. It wasn't so much the size of the company but the size of the company in that production area. Doug Boyer stated that TCEQ is very interested in this study and that more data in this area would be helpful. He said he would send his comments about the survey itself in an email.

David Duncan asked if we have the right companies with the right contact person who needs to respond to the survey. Amnon Bar-Ilan responded that information of the companies in the Shale comes from the Railroad Commission and that this information has been very consistent and always seems to capture the right players in the area. If there is any other information we can get in identifying who the right people are to get the survey with the companies that would be great.

David Duncan asked how vintage is used to determine emission factors. Allison DeuBleyker answered that the model year of the trucks is not something that the operators will know but what we plan to do is to use the area average age distribution of trucks. We felt like asking for the truck age and model year of each truck in the survey would be too much and we didn't want to scare away respondents.

Rick Hanning asked if people will be brought in to a central location to talk about the survey results. Greg Yarwood responded that there is no plan for a meeting but that telephone calls with individual will be done as a follow up method.

Greg Yarwood discussed the 2011 versus the 2012 data and stated that if TCEQ is going to build its inventory on the 2012 data then so should we. Eric Snyder with EPA stated that he would like to see 2012 used but to consider a scaling factor for 2010 or 2011.

A motion was made by Kelly Spencer to approve the plan to move forward with the emissions inventory and the survey form provided and a second was recorded. A vote was taken and the motion passed unanimously.

## **7. Other Business**

No other business was discussed.

## **8. Adjournment**

The meeting adjourned at approximately 10:44 AM.