

# Final Minutes



## *Performance Measures Subcommittee Meeting #31*

Date: Wednesday, June 28, 2006  
 Time: 9:00 am to 2:30 pm  
 Place: CASA Small Boardroom

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### In attendance:

Name	Organization
Bob Myrick	Alberta Environment
Mary Griffiths	Pembina Institute
Ted Stoner	Canadian Petroleum Products Institute (CPPI)
Donna Tingley	CASA
Marianne English	CASA

### Action Items:

Task	Who	When
<b>29.4</b> Work through the calculation procedures for the indicators for performance measure #1	Marianne	Complete for next subcommittee meeting
<b>30.16</b> Contact teams with outstanding recommendations with respect to implementation and request status reports on implementation of these recommendations	Donna	for next subcommittee meeting
<b>31.1</b> Have the minutes from the March 20 <sup>th</sup> subcommittee meeting posted on the CASA web site.	Marianne	Asap
<b>31.2</b> Contact Phil Blagden and Dave Henderson from Environment Canada/Health Canada with respect to a presentation on Environment Canada/Health Canada's work on health/air quality indicators.	Bob	Asap
<b>31.3</b> Contact Markus Kellerhals with respect to a presentation on the Environment Canada/Health Canada work on health/air quality indicators.	Marianne	Asap
<b>31.4</b> Update the 2006 workplan.	Marianne	for next subcommittee meeting
<b>31.5</b> Check out data available from CAC inventories.	Marianne	for next subcommittee meeting
<b>31.6</b> Check out data available from NPRI	Marianne	for next

inventories.		subcommittee meeting
<b>31.7</b> Contact the EUB, the CFO team and the F/V team re data on province wide H <sub>2</sub> S emissions.	Marianne	for next subcommittee meeting
<b>31.8</b> Check with the CFO team re data on TRS.	Marianne	for next subcommittee meeting
<b>31.9</b> Check with the EUB re data on solution gas and coal bed methane.	Marianne	for next subcommittee meeting
<b>31.10</b> Check with Markus and/or Lawrence re data on VOCs and also check CAC and NPRI inventories.	Marianne	for next subcommittee meeting
<b>31.11</b> Contact Richard Melick of AENV re greenhouse gas data.	Marianne	for next subcommittee meeting
<b>31.12</b> Contact the CFO team re data on NH <sub>3</sub> and pathogens/bioaerosols.	Marianne	for next subcommittee meeting
<b>31.13</b> Contact the Indoor Air Quality team and ask if they have selected an emission indicator for their work.	Marianne	for next subcommittee meeting
<b>31.14</b> Contact Gerry Ertel with respect to data on fuel sales.	Marianne	for next subcommittee meeting
<b>31.15</b> Review the Renewable and Alternative Energy team's presentation to the CASA board of December 2005 and develop a draft indicator.	Marianne	for next subcommittee meeting
<b>31.16</b> Request that the performance measures subcommittee be put on the agenda for the September Airshed Council meeting to obtain input on a possible airshed performance indicator for CASA.	Marianne	Asap
<b>31.17</b> Put a review of the stakeholder questionnaire on the agenda of the next subcommittee meeting.	Marianne	for next subcommittee meeting
<b>31.18</b> Request that the performance measures subcommittee be given time, at the September Airshed Council meeting, to discuss the need to amend the methodology for calculating the CASA air quality indicators for use by the airsheds.	Marianne	for next subcommittee meeting

<b>31.19</b> Forward to Bob the request for assessments for the acidifying emissions management recommendations.	Marianne	Asap
<b>31.20</b> Remind Bob that the subcommittee meetings now start at 8:30 am.	Marianne	Tuesday, September 12 <sup>th</sup>
<b>31.21</b> Ensure that the subject line of the email for the September 13 <sup>th</sup> subcommittee meeting mentions the 8:30 am start time.	Marianne	September 6 <sup>th</sup>

Donna chaired the meeting.

## 1. Administration

### a. Review and revise agenda and meeting objectives

The meeting objectives were reviewed and agreed to, as was the agenda. But the time for adjournment was revised to 2:30 pm.

### b. Review and approve draft minutes from March 20, 2006

The draft minutes from the subcommittee meeting of March 20, 2006 were approved.

***Action 31.1: Marianne to have the minutes from the March 20<sup>th</sup> subcommittee meeting posted on the CASA web site.***

### c. Review action items

Task	Who	Status
<b>29.4</b> Work through the calculation procedures for the indicators for performance measure #1	Marianne	carry forward to next subcommittee meeting
<b>30.1</b> Correct minutes from December 9 <sup>th</sup> subcommittee meeting and have them posted on the CASA web site.	Marianne	Done
<b>30.2</b> Introduce the concept of having airsheds calculate the CASA Performance Measure #1 indicators for their regions at the March 31 meeting of the Operations Steering Committee.	Marianne	Done
<b>30.3</b> Review the documentation for calculating the indicator for performance measure #4.	Ted	Done
<b>30.4</b> Provide to Marianne a contact for a presentation to the subcommittee of the federal government's work on health indicators.	Bob	Revised
<b>30.5</b> Revise the 2006 workplan.	Marianne	Done
<b>30.6</b> Revise the draft response to teams and forward the revised draft to subcommittee members for review.	Marianne	Done

<b>30.7</b> Forward comments on revised draft response to teams to Marianne.	Subcommittee members	Done
<b>30.8</b> Forward subcommittee's response to teams.	Donna and Marianne	Done
<b>30.9</b> Develop an initial list of substances of concern by checking the implementation matrix and reviewing evaluations that have been, or are being, evaluated by teams.	Marianne	Done
<b>30.10</b> Contact the three teams and request their comments on the proposed new performance measure and suggestions as to indicators and data sources for this measure.	Marianne and/or Donna	Done
<b>30.11</b> Add acronyms for team names in Attachment J.	Marianne	Done
<b>30.12</b> Revise Attachment M and list the substantive recommendations.	Marianne	Done
<b>30.13</b> Add the specified assessors to the list of substantive recommendations.	Marianne	Done
<b>30.14</b> Revise the summary of low-rated recommendations by dropping the recommendations where no further CASA action is warranted.	Marianne	Done
<b>30.15</b> Forward the implementation matrix to subcommittee members.	Donna	Done
<b>30.16</b> Contact teams with outstanding recommendations with respect to implementation and request status reports on implementation of these recommendations	Donna	Carry forward
<b>30.17</b> Review the documents describing the procedures for calculating the indicators for performance measures #s 2, 3, and 5 and forward comments to Marianne by April 4, 2006.	Subcommittee members	Done
<b>30.18</b> Prepare a draft status report for the June CASA board meeting briefing book for review at the next subcommittee meeting.	Marianne	Done

With respect to item 30.4, it was decided that Bob will pursue federal contacts from Environment Canada and Health Canada and Marianne will approach Marcus Kellerhaus.

***Action 31.2: Bob to contact Phil Blagden and Dave Henderson from Health Canada with respect to a presentation on Environment Canada and Health Canada's work on health/air quality indicators.***

**Action 31.3:** *Marianne to contact Markus Kellerhals with respect to a presentation on the Environment Canada and Health Canada work on health/air quality indicators.*

**d. Review workplan for 2006**

The revised draft workplan was reviewed and agreed to.

**Action 31.4:** *Marianne to update the 2006 workplan.*

**e. Status report for June board meeting**

A status report on the performance measures review was drafted, reviewed and approved by subcommittee members and included in the briefing book for the June CASA board meeting. No comments were made at the board meeting on the status report.

## **2. New Performance Measures – Emission Reductions**

**a. Review draft measure**

The following issues were raised during the review of the new performance measure on emission reductions:

- we need to avoid overlap between this measure and measure #1 (improved air quality) and we need to carefully explain the difference between this new measure and performance measure #1
- data availability and confidentiality may be a problem with respect to this new measure; the subcommittee could recommend that certain data be obtained
- in general, routinely collected data is needed, thus inventory-type data will need to be used to calculate indicators for this new measure; but trends derived from inventories are unreliable because methodology is continually improving
- new knowledge and data arise continuously and the subcommittee must strike a balance between improvements and continuity; this suggests the need for review at intervals and this could be a recommendation the subcommittee might make to the board
- data limitations may mean that progress cannot be determined from 1994 to the present; it may be necessary to use a more recent base year
- because we are concerned with “areas of CASA action” do we want to consider specific industries? The suggestion made is that we do province wide and specific sectors
- oil sands should be one sector we include
- we may need to hire someone to excerpt the data and calculate the indicators.

No changes were made to the wording of the new measure.

**b. Review/select substances of concern to the teams**

The subcommittee discussed the draft list of suggested substances of concern.

<b>Suggested Substance of Concern</b>	<b>Discussion</b>	<b>Priority*</b>
<b>H<sub>2</sub>S</b>	<ul style="list-style-type: none"> <li>• is difficult but is measured</li> <li>• it is often estimated because fugitive emissions account for a large portion of H<sub>2</sub>S emissions</li> <li>• we need to document in a cohesive way what data is available</li> </ul>	Do last
<b>NO<sub>x</sub> (NO<sub>2</sub>)</b>	<ul style="list-style-type: none"> <li>• NO<sub>x</sub> is included in CAC inventories; forget about NO<sub>2</sub></li> </ul>	Do first
<b>S</b>	<ul style="list-style-type: none"> <li>• what is this as an emission? we are not aware of S being an emission into air</li> </ul>	Drop
<b>SO<sub>x</sub> (SO<sub>2</sub>)</b>	<ul style="list-style-type: none"> <li>• use SO<sub>2</sub></li> <li>• inventories are available; for the province as a whole Environment Canada provides the Criteria Air Contaminants (CAC) inventories which include SO<sub>2</sub>; these CAC inventories contain breakdowns for various sectors; for industry Alberta Environment has data and then there's the NPRI</li> </ul>	Do first
<b>O<sub>3</sub></b>	<ul style="list-style-type: none"> <li>• O<sub>3</sub> is not emitted, need to look at O<sub>3</sub> precursors</li> <li>• California (California Resources Board) has a list of O<sub>3</sub> precursors</li> </ul>	Drop O <sub>3</sub> but add O <sub>3</sub> precursors; Do last
<b>TRS</b>	<ul style="list-style-type: none"> <li>• includes H<sub>2</sub>S</li> <li>• the CFO may know about data sources and there may be some forestry/pulp and paper data</li> </ul>	Do last
<b>Solution gas</b>	<ul style="list-style-type: none"> <li>• what is solution gas? is it primarily methane?</li> <li>• check EUB reports for data on flared and vented solution gas</li> <li>• we are interested in coal bed methane as well</li> </ul>	Do first
<b>Hg</b>	<ul style="list-style-type: none"> <li>• reported to NPRI, data available for total emissions for province and for a number of sectors</li> </ul>	Do first
<b>PM</b>	<ul style="list-style-type: none"> <li>• included in CAC inventories</li> <li>• reported in terms of 3 size fractions: total particulates, less than or equal to 2.5 and 10</li> </ul>	Do first
<b>VOCs</b>	<ul style="list-style-type: none"> <li>• included in CAC inventories</li> <li>• NPRI gives data for industries</li> <li>• Benzene is often used as a surrogate for carcinogenic VOCs</li> </ul>	Do first
<b>CO<sub>2</sub>equiv.</b>	<ul style="list-style-type: none"> <li>• Environment Canada produces CO<sub>2</sub> equivalent inventories</li> <li>• methods of estimating CO<sub>2</sub> equivalent emissions have changed through the years</li> <li>• AENV has data</li> <li>• use the Environment Canada national inventories for trends</li> </ul>	Do second
<b>NH<sub>3</sub></b>	<ul style="list-style-type: none"> <li>• included in CAC inventories</li> </ul>	Do first
<b>odour</b>	<ul style="list-style-type: none"> <li>• the NRCB and the EUB may have some odour complaint data</li> <li>• is there an odour complaint inventory over time broken down by industry?</li> </ul>	Do last

<b>pathogens/ bioaerosols</b>	<ul style="list-style-type: none"> <li>the subcommittee is not aware of data available on pathogens and/or bioaerosols.</li> <li>the CFO may have some</li> </ul>	Do last
<b>indoor air quality substances</b>	<ul style="list-style-type: none"> <li>the indoor air quality team may have selected an emission indicator</li> </ul>	Do last
<b>CO</b>	<ul style="list-style-type: none"> <li>included in the CAC inventories</li> </ul>	Do last

\*The priority is essentially determined by the relative ease with which the data can be obtained. Data that is available from a government inventory is to be obtained first. Data which is not included in a government inventory but is obtainable in a relatively straight forward manner is to be done secondly. Data that may be more difficult to obtain, or may not exist, is to be worked on last.

***Action 31.5: Marianne to check out CAC inventories including which of the substances of concern on our list are included in the CAC inventories, what breakdowns are available for each substance, what is the original source of data, how was it amalgamated, when the data starts, when and what changes in reporting occurred.***

***Action 31.6: Marianne to see what data is available from the CAC and NPRI inventories.***

***Action 31.7: Marianne to contact the EUB, the CFO team and the F/V team re data on province wide H<sub>2</sub>S emissions and also to review the WISSA study.***

***Action 31.8: Marianne to check with the CFO team (and Ahmed in particular) re data on TRS.***

***Action 31.9: Marianne to check with the EUB re data on solution gas and coal bed methane.***

***Action 31.10: Marianne to check with Markus and/or Lawrence re data on VOCs and also check CAC and NPRI inventories.***

***Action 31.11: Marianne to contact Richard Melick of AENV re greenhouse gas data.***

***Action 31.12: Marianne to contact the CFO team re data on NH<sub>3</sub> and pathogens/bioaerosols.***

***Action 31.13: Marianne to contact the Indoor Air Quality team and ask if they have selected an emission indicator for their work.***

### **3. New Performance Measures – Energy Indicators**

#### **a. New performance measure related to emission reductions**

The subcommittee reviewed the draft energy indicators performance measure and rewrote it as follows:

*Energy use as an indirect measure of air quality in areas of CASA action.*

This new performance measure is applicable to the work of three current CASA teams:

- the Vehicle Emissions team;
- the Renewable and Alternative Energy team; and
- the Energy Efficiency and Conservation team.

**b. Review input from teams**

The three teams were contacted and requested to provide input with respect to the wording of the draft new performance measure and also to provide suggestions for indicators for the new performance measure. The only response received was from the Vehicle Emissions team which suggested that the amount of gasoline sold could be an indicator.

**c. Develop indicators**

With respect to the work of the Vehicle Emissions team it was suggested that we assume a direct relationship between fuel use and vehicle emissions. Statistic Canada publishes data on fuel sold quarterly. The subcommittee defined the following potential indicators:

- absolute fuel sold (for gasoline and diesel)
- fuel sold per capita (for gasoline and diesel)
- fuel sold per vehicle (gasoline and diesel)

***Action 31.14: Marianne to contact Gerry Ertel with respect to getting the required data.***

With respect to the Renewable and Alternative Energy team it was suggested that the target and methodology proposed by the team, and accepted by the board, during the December 2005 CASA board meeting could be converted into an indicator.

***Action 31.15: Marianne to review the Renewable and Alternative Energy team's presentation to the board of December 2005 and develop a draft indicator.***

No indicator was defined with respect to the work of the Energy Efficiency and Conservation team; the work of this team is to be reconsidered once they have made further progress.

## **4. Indicators Needing Work**

**a. Review status of measures/indicators needing work**

The subcommittee reviewed the list of 12 measures/indicators needing work that was developed during the subcommittee's December 2005 meeting. In particular, the subcommittee discussed items on the list that could be tackled now. The discussion included the following:

**Item #3: Ambient Monitoring Airshed Indicator**

- it was agreed that supporting airsheds is a priority for CASA and that it might be worthwhile having an indicator related to CASA's work on airsheds;



- it was agreed that an airshed indicator would fall under performance measure #2: Capacity to measure effects
- possible indicators that were suggested included: “# monitoring stations in airshed zones”; “% Alberta population in airshed zones”; “% province covered by airshed zones”
- input from the airsheds is needed
- the Airshed Council, which is to meet in conjunction with the CASA Science Symposium in September, might be an appropriate vehicle for getting input from the airsheds.

***Action 31.16: Marianne to request that the Performance Measures Subcommittee be put on the agenda for the September Airshed Council meeting to obtain input on a possible CASA airshed performance indicator .***

Item #5: Number of Sites indicator

The subcommittee briefly discussed dropping this performance measure #2 indicator but decided to defer a final decision to the next meeting.

Item #7: Performance Measure #3 Indicator

The subcommittee agreed that the meaning of the indicator “degree of implementation of substantive recommendation” is not clear. The discussion covered the following:

- teams are writing better recommendations
- the first step in clarifying the indicator is to improve the presentation to the board; we can work on this in November

Item #8: Revise the Stakeholder questionnaire

The subcommittee decided that:

- the subcommittee is to review the questionnaire with the help of Sharon and flag desired changes
- depending on the nature of the desired changes, the subcommittee may need to hire a specialist to effect the desired changes
- Alberta Environment has agreed to provide funds for the specialist.

***Action 31.17: Marianne to put a review of the stakeholder questionnaire on the agenda for the next subcommittee meeting.***

## 5. Airshed Zones’ Use of Air Quality Indicators

Subcommittee members reviewed the responses from the airshed zones to Donna’s letter to them re their use of the CASA performance measure #1 indicators. All but one of the airsheds responded; Wood Buffalo was the lone exception. The responses were generally favourable, but a few respondents mentioned the following problems:

- some of the monitoring stations have not been in operation for 5 years and excluding these stations would exclude much of the data
- some monitoring sites have passive rather than continuous monitors
- airshed zones do not have data starting from 1994.

As well, Bob pointed out that Alberta Environment plans to include the capability to produce reports of the performance measure #1 indicators in the CASA data warehouse. It was also suggested that it would be desirable to report the values of the indicators for each airshed in the CASA annual report.

Again, the September meeting of the Airshed Council would be an appropriate forum for discussing these issues.

***Action 31.18: Marianne to request that the Performance Measures Subcommittee be allocated time at the September Airshed Council meeting to discuss the need to amend the CASA methodology for calculating air quality performance measures for airshed use.***

## **6. Status Reports**

### **a. Response to teams**

Marianne reported that the subcommittee's response to teams, re the input on performance measures provided by the teams, was forwarded to all active teams who responded to the request for input, all individuals who responded on behalf of disbanded teams, and all currently active teams who did not respond to the request for input.

### **b. Performance Measure #3**

The substantive recommendations approved by the CASA board in 2002 came from the Flaring/Venting Project Team, the Acidifying Emissions Management Team, and the Pollution Prevention/Continuous Improvement Project team:

- Donna reported that requests for assessments of implementation were forwarded to appropriate individuals involved in the implementation of the pollution prevention/continuous improvement recommendations. Most of these individuals have provided assessments.
- Marianne reported that she forwarded requests for assessment of implementation, of the acidifying emissions management implementation team's recommendations, to Kim Eastlick of the EUB and to Randy Dobko and Lawrence Cheng from Alberta Environment, but has not yet received a response. It was agreed that Bob would provide assessments on behalf of Alberta Environment.
- Marianne also reported that she forwarded requests for assessments of the flaring/venting project team recommendations to Bettina, and Bettina promised a response in October.

***Action 31.19: Marianne to forward to Bob the request for assessments for the acidifying emissions management recommendations.***

### **c. Documenting procedures for calculating indicators**

Marianne asked if there were any final comments/suggestions on the documents previously reviewed and revised. Subcommittee members stated that they had no further comments. The documents are now final.

## 7. Next Meeting

The next meeting of the subcommittee will take place on Wednesday, September 13, 2006 from 8:30 am to 2:30 pm at CASA. This meeting will be followed by another meeting on Thursday, October 19, 2006 from 8:30 am to 2:30 pm.

***Action 31.20: Marianne to remind Bob on Tuesday, September 12<sup>th</sup> that the September 13<sup>th</sup> meeting of the performance measures subcommittee starts at 8:30 am.***

***Action 31.21: Marianne to ensure that the subject line of the email providing the agenda and materials for the September 13<sup>th</sup> meeting mentions the 8:30 am start.***