

Draft Minutes



Performance Measures Subcommittee Meeting #32

Date: Friday, September 15, 2006
Time: 8:30 am to 13:45 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
29.4 Work through the calculation procedures for the indicators for performance measure #1	Marianne	for next subcommittee meeting
31.7 Contact the EUB, the CFO team and the F/V team re data on province wide H ₂ S emissions.	Marianne	for next subcommittee meeting
31.8 Check with the CFO team re data on TRS.	Marianne	for next subcommittee meeting
31.9 Check with the EUB re data on solution gas and coal bed methane.	Marianne	for next subcommittee meeting
31.10 Check with Markus and/or Lawrence re data on VOCs and also check CAC and NPRI inventories.	Marianne	for next subcommittee meeting
31.11 Contact Richard Melick of AENV re greenhouse gas data.	Marianne	for next subcommittee meeting
31.13 Contact the Indoor Air Quality team and ask if they have selected an emission indicator for their work.	Marianne	for next subcommittee meeting
32.1 Correct the minutes for the June 28, 2006 meeting and have them posted on the CASA website.	Marianne	for next subcommittee meeting
32.2 Update the 2006 workplan.	Marianne	for next subcommittee

		meeting
32.3 Contact NPRI and ask if separate data for releases to air, water, and land can be obtained.	Marianne	for next subcommittee meeting
32.4 Produce line graphs for all the substances of concern for which CAC inventories are available.	Marianne	for next subcommittee meeting
32.5 Consult Ray Wong on how to handle the discontinuity with respect to years for which CAC emission inventories are available.	Bob and Marianne	asap
32.6 Develop a draft procedure for calculating emission trends.	Bob and Marianne	asap
32.7 Call Ted if help is needed in obtaining the required transportation data.	Marianne	asap
32.8 Check on what data is available with respect to energy intensity.	Marianne	for next subcommittee meeting
32.9 Discuss, with the Airshed Council at their meeting on September 27, the possible airshed indicators that the subcommittee has discussed.	Donna	on September 27
32.10 Review Bill Page's recommendations to determine if he suggested surveying anything.	Marianne	for next subcommittee meeting
32.11 Forward to subcommittee members, Dennis Stokes' report on the 2004 stakeholder survey.	Marianne	for next subcommittee meeting
32.12 Review the results from previous stakeholder surveys for recommendations on changes to the questionnaire.	Marianne	for next subcommittee meeting
32.13 Forward to Sharon an invitation to the Communications Committee to review and amend the questions dealing with communications and to consider defining additional indicators related to these questions.	Marianne	asap
32.14 Invite Kevin McLeod to participate in the discussion on a human health indicator on October 19.	Marianne	for next subcommittee meeting
32.15 Revise the proposal re the use of the CASA air quality indicators by the airsheds.	Marianne	asap
32.16 Present the proposal to the Airshed Council at their meeting of September 27.	Donna	on September 27
32.17 Check the minutes and notes from previous subcommittee meetings for suggestions on recommendations we might	Marianne	for next subcommittee meeting

wish to make to the board during our presentation to the board on the performance measures review.		
32.18 Ensure that the subject line of the email providing the agenda and materials for the October 19 th meeting mentions the 8:30 am start.	Marianne	for next subcommittee meeting

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 it was agreed that the subcommittee's work schedule needed to be reviewed at the end of the meeting.

b. Review and approve draft minutes from June 28, 2006

A spelling mistake in the name of Richard Meleck was noted. With this correction, the draft minutes from the subcommittee meeting of June 28, 2006 were approved.

Action 32.1: Marianne to correct the minutes for the June 28, 2006 subcommittee meeting and have them posted on the CASA website.

c. Review action items

Task	Who	Status
29.4 Work through the calculation procedures for the indicators for performance measure #1	Marianne	Carry forward to next subcommittee meeting
30.16 Contact teams with outstanding recommendations with respect to implementation and request status reports on implementation of these recommendations	Donna	Done
31.1 Have the minutes from the March 20 th subcommittee meeting posted on the CASA web site.	Marianne	Done
31.2 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	Drop
31.3 Contact Markus Kellerhals with respect to a presentation on the Environment Canada/Health Canada work on health/air quality indicators.	Marianne	Done

31.4 Update the 2006 workplan.	Marianne	Done
31.5 Check out data available from CAC inventories.	Marianne	Done
31.6 Check out data available from NPRI inventories.	Marianne	Done
31.7 Contact the EUB, the CFO team and the F/V team re data on province wide H ₂ S emissions.	Marianne	Carry forward to next subcommittee meeting
31.8 Check with the CFO team re data on TRS.	Marianne	Carry forward to next subcommittee meeting
31.9 Check with the EUB re data on solution gas and coal bed methane.	Marianne	Carry forward to next subcommittee meeting
31.10 Check with Markus and/or Lawrence re data on VOCs and also check CAC and NPRI inventories.	Marianne	Carry forward to next subcommittee meeting
31.11 Contact Richard Millick of AENV re greenhouse gas data.	Marianne	Carry forward to next subcommittee meeting
31.12 Contact the CFO team re data on NH ₃ and pathogens/bioaerosols.	Marianne	Done
31.13 Contact the Indoor Air Quality team and ask if they have selected an emission indicator for their work.	Marianne	Carry forward to next subcommittee meeting
31.14 Contact Gerry Ertel with respect to data on fuel sales.	Marianne	Call Ted Stoner first
31.15 Review the Renewable and Alternative Energy team's presentation to the CASA board of December 2005 and develop a draft indicator.	Marianne	Done
31.16 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	Done
31.17 Put a review of the stakeholder questionnaire on the agenda of the next subcommittee meeting.	Marianne	Done
31.18 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	Marianne	Done

airsheds.		
31.19 Forward to Bob the request for assessments for the acidifying emissions management recommendations.	Marianne	Done
31.20 Remind Bob that the subcommittee meetings now start at 8:30 am.	Marianne	Done
31.21 Ensure that the subject line of the email for the September 13 th subcommittee meeting mentions the 8:30 am start time.	Marianne	Done

With respect to item 31.12, Marianne reported that she read the draft CFO summary report on inventories and it stated that at the present time there was no data for Alberta on pathogens/bioaerosols.

d. Review workplan for 2006

The September version of the subcommittee’s workplan for 2006 was reviewed and agreed to. However, the workplan will need to be revised after the subcommittee’s discussion on its schedule/timing.

Action 32.2: Marianne to update the 2006 workplan.

e. Funding review

Donna reported that the funds Alberta Environment had promised for revising the stakeholder questionnaire are not available at the present time, although they might become available before March 31, 2007.

2. New Performance Measures – Emission Reductions

a. Review data sources for emissions of substances of concern

Marianne provided to subcommittee members examples of the kind of data available from Environment Canada’s Criteria Air Contaminants (CAC) inventories, National Pollutant Release Inventory (NPRI), and Greenhouse gas (GHG) inventories. This data is summarized in the document “Sources of Data for Substances of Concern” with respect to the substances of concern for the new emissions reduction performance measure. During the discussion of these sample inventories the following points were raised:

- Environment Canada (EC) is now working to develop annual inventories starting from 2002, which is already available on the EC website; EC is now working on 2003. Prior to 2002, the CAC inventories are available for 1990, 1995, and 2000.
- The CAC inventories include data for industrial and non-industrial sources. The data on industrial sources is based on industry reports to NPRI and is identical to the data given in the NPRI. Data for non-industrial sources is based largely on models and calculations.
- For the CAC inventories, EC produces estimates for each inventory and the estimates are then reviewed by provincial staff. So the CAC inventories are the most credible and comprehensive air emission inventories.

- The differences in methodology that used to exist from one CAC inventory to the next have been removed so that it is possible to calculate trends from the CAC inventories.
- CAC inventories are available for Canada as a whole and for each province as a whole. A need exists for more comprehensive regional or single industry inventories.
- There will be a presentation on work related to NO_x inventories, that is now going on, at the CASA Science Symposium on Nitrogen.
- The CAC inventories summary available on the EC website includes forecast CAC emissions for 2010 and 2015. Alberta Environment has no expertise in forecasting emissions and so can't comment on these projections.
- It was mentioned that some reported industrial emissions may not be included in the NPRI published data because of confidentiality issues. (NPRI data is publicly available on a plant by plant basis.) In such cases, the reported emissions would be included in the CAC inventories because they are only published as totals and not plant by plant.
- Except for the criteria air contaminants (for which only releases to air are reported), NPRI does not separate releases to air, water, land. This makes NPRI data fairly useless for our purposes, unless separate data for releases to air water, and land can be obtained.
- The greenhouse gas inventory is appropriate/useable for our purposes.
- Additional indicators can be added later to any set that we derive at present.
- The purpose of our report to the board is to demonstrate the effect of CASA initiatives on emissions, if possible.

Recommendation 1

The subcommittee should recommend that emissions inventories be given a high priority by Alberta Environment.

Recommendation 2

The Performance Measures Subcommittee should revisit the CAC, NPRI, GHG inventories in a few years time with respect to what data should be used to calculate the CASA emission reduction indicators.

Action 32.3: Marianne to contact NPRI and ask if separate data for releases to air, water and land can be obtained.

b. Develop potential indicators

Subcommittee Decisions

- ✓ The subcommittee decided to use data from the CAC inventories for calculating emission reduction indicators whenever possible;
- ✓ The emission reduction indicators are to consist of trends in total annual emissions of substances of concern to CASA.
- ✓ Trends starting from 1990 to the most recent year for which data is available are to be calculated.
- ✓ With respect to the total emissions for the province, we will report the total including open sources.

- ✓ In addition to the provincial total, we will report emissions for the following sectors: industrial plus non-industrial sectors; oil sands; electrical power generation; upstream oil and gas; and transportation.
- ✓ When reporting emission trends we will show the projections but not connect them to the actual emissions in any way.
- ✓ With respect to calculating emission trends, we may not have enough data points to calculate statistical significance.
- ✓ The fact that until 2002, emission inventories are available only for 1990, 1995, and 2000 and, that after 2002 they are to be available annually, presents a problem. We should consult a statistician on how to handle this discontinuity. Perhaps we could interpolate for the earlier years to get annual data.
- ✓ To the extent possible, the procedure for calculating emission trends is to parallel the procedure used for calculating trends in average and peak ambient concentrations.
- ✓ With respect to the greenhouse gas inventories, we will produce emission trends for: the sum of all greenhouse gases; CO₂, and CH₄. As well, our indicators are to be both actual emission trends and trends in emission intensities.
- ✓ Also with respect to the greenhouse gas inventories, we will produce emission trends for: the provincial total greenhouse gas emissions; the agriculture total; the transportation total; electricity and heat generation; and fossil fuel industries.
- ✓ We need to look at some more data to make further decisions.

Action 32.4: Marianne to produce line graphs (that is, graphs of emission versus year) for all the substances of concern for which CAC inventories are available.

Action 32.5: Marianne and Bob to consult Ray Wong on how to handle the discontinuity with respect to the years for which CAC emission inventories are available.

Action 32.6: Marianne and Bob to develop a draft procedure for calculating emission trends.

3. New Performance Measures – Energy Indicators

a. Review transportation type indicators

The transportation indicators that the subcommittee is considering are:

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

Data for these indicators will come from Statistics Canada. However, the Statistics Canada fuel sold data is likely available only as a lump sum provincial total; but some fuels (such as diesel) are used for a lot more than transportation. Thus, it may be difficult to obtain breakouts for the transportation sector.

Action 32.7: Marianne to call Ted if help is needed in obtaining the required transportation data.

b. Develop energy efficiency type of indicators

A member of the Energy Efficiency and Conservation team suggests the following energy use indicators:

- energy intensity – e.g. energy use per person, per house, per square foot of commercial space, per GDP of product produced, per barrel of oil, per kwh of electricity generated, etc.
- energy efficiency and conservation programming – e.g. \$ spent, direct and indirect impacts of programming, participation, etc.
- energy mix – e.g. absolute amounts of coal, natural gas, gasoline, diesel, hydro, wind, biomass, coke used in the province and in various sectors or regions.

Subcommittee Decisions

- ✓ Need to look at data available from Statistics Canada on energy intensity and to also check the Energy Efficiency/Conservation team reports (this is medium priority, i.e. do after the emission reduction samples).
- ✓ Energy efficiency and conservation programming is not of interest to the subcommittee; it is an indirect measure of energy use and data availability/credibility is doubtful. This type of indicator may be of interest to the Energy Efficiency and Conservation team itself.
- ✓ The best energy mix indicator is the one the Renewable and Alternative Energy team is working with.

Action 32.8: *Marianne to check on what data is available with respect to energy intensity.*

c. Develop renewable and alternative energy type of indicators

Subcommittee Decisions

- ✓ The indicator related to renewable and alternative energy is to be:

% NEW RENEWABLE and ALTERNATIVE ELECTRICAL ENERGY PRODUCED per CALENDAR YEAR.
- ✓ We will do both.
- ✓ Progress can be measured either with respect to the Alberta target (3.5 %) or the value for 2006.
- ✓ The Renewable and Alternative Energy team recommended that Alberta Environment calculate the percent new renewable and alternative energy annually. The performance measures subcommittee will use the result of the Alberta Environment calculations.

4. Indicators Needing Work

a. Status report on airshed type ambient monitoring indicator

See item #5 below.

Action 32.9: *Donna to discuss, with the Airshed Council at their meeting on September 27, the possible airshed indicators that the subcommittee has discussed.*

b. Make decision on dropping number of sites indicator

Subcommittee Decision

- ✓ The subcommittee agreed to drop the number of ecological monitoring sites indicator from performance measure #2 – the capability to measure air quality effects. The reason for dropping this indicator is that it does not really provide a measure of progress of our capability to measure ecological effects from air quality. The important factor in monitoring ecological effects is the representativeness of the sites. Many monitoring sites could be clustered within a small area and the results would be no more representative of ecological effects in Alberta than a few sites in the same area.

c. Define process for improving reporting of performance measure #3 results

Subcommittee Decisions

- ✓ In future presentations of results to the board on the average degree of implementation of substantive recommendations from a given year, the subcommittee is to stress that it was the teams/implementers who rated implementation, not the subcommittee
- ✓ Additional information, for instance about what kind of recommendation were given a high implementation rating and what kind were given low ratings, should also be given in the presentation of results.
- ✓ It may be helpful to have a member of the subcommittee present when teams go through the rating process.
- ✓ With respect to obtaining an update on the implementation status of previously low-rated recommendation, the subcommittee considers this a worthwhile try but decided not to push it.

d. Review and revise the stakeholder questionnaire

In discussing the stakeholder survey, the following points were raised:

- Question #3 is the only question that is currently used for performance measures;
- The cross tabulations calculated by Dennis Stokes have not been used and this part of the analysis can be dropped;
- Questions #s 1 and 2 relate, in some way, to performance measures #s 1 and 2 and so could be used to derive additional indicators for these two performance measures, however, the current indicators for these performance measures are objective whereas any indicators derived from the questionnaire would be subjective;
- What information do we want from the questionnaire?
- Did Bill Page suggest anything that we should survey?
- We should review the results from previous surveys;
- From a board member came the suggestion that an integral part of CASA is transparency and inclusiveness and that transparency and inclusiveness should be measured;
- Question # 22 seems to relate to inclusiveness;
- We should ask the communications committee if they wish to revise, drop, or add to any of the questions on the survey that deal with communications.
- We need not have indicators related to each question on the survey; some questions could simply provide information for internal use.

Subcommittee Decisions

- ✓ The calculation of the cross tabulations will be dropped.
- ✓ Questions #s 10 to 15, inclusive will be dropped.
- ✓ A question will be added that reads “How satisfied or unsatisfied are you with the implementation of CASA recommendations”. An additional indicator for performance measure #4 will be derived from this question.
- ✓ The subcommittee will consider defining additional indicators from the questionnaire at the next meeting.
- ✓ The communications committee will be invited to make changes to the questions that deal with communications and to consider deriving additional indicators from them.
- ✓ Because no extra funding is now available for the survey, it will probably remain a mail out survey.

Action 32.10: Marianne to review Bill Page’s recommendations to determine if he suggested surveying anything.

Action 32.11: Marianne to forward to subcommittee members, Dennis Stokes’ report on the 2004 stakeholder survey (without the Appendices).

Action 32.12: Marianne to review the results from previous stakeholder surveys for recommendations on changes to the questionnaire.

Action 33.13: Marianne to forward to Sharon an invitation to the Communications Committee to review and amend the questions dealing with communications and to consider defining additional indicators related to these questions.

e. Status report on human health indicator

A representative of the local office of Environment Canada will give the subcommittee a presentation on the work the federal government has done on defining air quality/human health indicators during the subcommittee’s meeting on October 19. Both Randy Angle and Alex MacKenzie were invited to give presentations at the same meeting on the provincial view of air quality/human health indicators. Randy has declined to our invitation (and has suggested that Long Fu could give a presentation) and Alex has not responded to our invitation.

Subcommittee Decisions

- ✓ The subcommittee will hear the presentation from the federal government representative on October 19;
- ✓ The subcommittee will not invite any more provincial government representatives to the October 19 meeting;
- ✓ The subcommittee will consult with Kevin McLeod re a human health indicator.

Action 32.14: Marianne to invite Kevin McLeod to participate in the discussion on a human health indicator on October 19.

5. Airshed Zones' Use of Air Quality Indicators

Subcommittee members reviewed the proposal related to the use of the CASA air quality indicators by the airshed zones. Points raised in the discussion include:

- The subcommittee agrees in principle with the proposal;
- With respect to including the methodology in the CASA data warehouse, this would be done when the data warehouse is upgraded and only with the approval of the Operations Steering Committee (OSC);
- To obtain the approval of the OSC ; the process would be for the performance measures subcommittee to propose to the OSC that such an upgrade should be undertaken and it would need to be financed;
- The OSC would have to determine any changes to the methodology (already documented by Alberta Environment) to meet the needs of the airsheds;
- With respect to using passive monitoring data in calculating the air quality indicators, the passive monitoring data is not now included in the CASA data warehouse and so would have to be provided to the data warehouse. Furthermore, passive monitoring data can be used to calculate the average ambient concentration indicators but cannot be used to derive the peak ambient concentration indicators;
- better wording is required in place of the phrase “as they see fit”.

Action 32.15: Marianne to revise the proposal.

Action 32.16: Donna to present the proposal to the Airshed Council at their meeting of September 27.

6. Performance Measure #3

Marianne presented a progress report on assessing implementation of 2002 substantive recommendations and also on obtaining updates on the implementation of substantive recommendations from 1998 and 1999.

With respect to the substantive recommendations from 2002, we are still waiting for the assessment of the Flaring/Venting Project team recommendations and the AENV ratings of the AEMIT recommendations. We hope to have these ratings sometime in October.

The subcommittee reviewed the ratings for the 2002 substantive recommendations from the Pollution Prevention/Continuous Improvement Project Team (PPCIPT) and discovered that no one had been requested to rate recommendation #46 (CASA stakeholders adopt and implement this pollution prevention/continuous improvement framework) because the recommendation is redundant. The recommendations that follow #46 specify the stakeholders and the various parts of the framework that the specific stakeholders are to adopt and implement.

With respect to the substantive recommendations from 1998, we hope to have the updates in October. With respect to the substantive recommendations from 1999, the Human Health project Team is not able to provide an update.

Subcommittee Decisions

- ✓ Drop recommendation #46;
- ✓ Spend no more effort/time on trying to get an update on the recommendations from 1998 and 1999.

7. Recommendations to the Board

a. Brainstorming recommendations

The subcommittee will recommend the two new performance measures and the additional and revised indicators to the board. As well, the subcommittee may wish to make recommendations with respect to the performance measures review process, continuous improvement in data and new CASA initiatives.

Action 32.17: Marianne to check the minutes and notes from previous subcommittee meetings for suggestions on recommendations we might wish to make to the board during our presentation to the board on the performance measures review.

b. Timing

The subcommittee agreed that it is unlikely that we will be ready to present the results of our performance measures review to the board in November. We have done a very thorough job and the change in subcommittee membership has set us back.

Subcommittee Decisions

- ✓ We will present the results of the performance measures review to the board in March
- ✓ We will present the indicator for performance measure #3 for substantive recommendations to the board in March
- ✓ We will provide a status report to the board in November
- ✓ Our December meeting will be a full day meeting and will be on December 18, from 8:30 am to 3:00 pm.

8. Next Meeting

The next meeting of the Performance Measures Subcommittee will be on October 19 from 8:30 am to 3 pm.

Action 32.18: Marianne to ensure that the subject line of the email providing the agenda and materials for the October 19th meeting mentions the 8:30 am start.