



Minutes: **Technical Working Group Meeting**
Date: **November 14, 2014**
Location: **Alberta Energy Regulator Boardrooms**
 - Room 213, # 201, 5002 - 55 St Red Deer
 - #300, 31 Sunpark Plaza SE, Calgary

Participants:

Noor Alif - ESRD	Jeff Cooper - WSP	Jon Cuttress – WSP (Phone)
Crissy Handziuk – NOVA Chemicals	Maxwell Mazur - ESRD	Dale Nylund – Altagas/Taylor
Steve Quine ME Global	Aaron Rognvaldson - Husky	Jim Saltvold - Public
Kevin Warren - Amarok		

Bolded Items are Action Items

1. The meeting was called to order by the chair, Jim Saltvold, at 0912 hrs
2. All attendees introduced themselves.

TWG Member Reg Watson suffered a massive cerebral hemorrhage on Oct. 11 and passed on October 16. Reg was a retired surveyor and rancher who lived near Eagle Hill northeast of Sundre. He was instrumental in the formation of PAMZ and SPOG and made substantial contributions to the success of both organizations. He twice served as the chairman of the PAMZ Board of Directors. He is survived by his partner Esther Johnston and his two daughters. Reg will be dearly missed.

3. The agenda was reviewed and accepted with the addition of 2015 Meeting Dates and Alberta Airsheds Council – AEMERA Developments added under other business and the break being moved after the PM_{2.5}/O₃ Plan Update.
4. The minutes of the September 5, 2014 meeting were accepted.
5. The status of action items arising from the September 5, 2014 meeting was reviewed.

Shelley of AEMERA will approach Environment Canada to find out what needs to be done to make the Lancaster station part of the NAPS network **CARRY FORWARD** Shelley will follow-up once AQM Station is permanently in place at the Lancaster Site

Focus will conduct review of the Riverside Dataset since the audit to see if there are any THC values > 10 ppm. **DONE** Sharon Whiteley reviewed and found no values over 10 PPM.

Focus will ensure that the calibration SOP is amended to reflect the revised THC-CH4-NMHC Calibration procedure change. **DONE** Calibration sheet amended

Focus will install two-step stairs ASAP **DONE**

Focus will add checking sample tube perpendicular alignment to station checklist and SOP **DONE** Replacement pipe on order

Shelley Morris will follow-up to determine the appropriate ESRD contract for obtaining 2014 Emissions data for Kevin. **DONE** Contact is Eric Flanagan

Kevin will communicate the decision to Stantec and set up contract. **DONE**

6. PAMZ AQM Program

- Focus is now a member of the WSP Group of Companies and will no longer use Focus name, i.e. now WSP.
- The audit of the PAMZ Quality Assurance Plan will be done by Calvin Consulting in early December.

Kevin will follow up with Calvin to arrange logistics.

Caroline

- Levels of all monitored parameters have been within historical normals since September meeting.
- The Sharp 5030 PM_{2.5} Monitor has been ordered.
- A failing NOx Analyzer was swapped out with a PAMZ hot spare on Oct. 21.

Jon Cuttress will check on status of Sharp order and update Kevin

Red Deer Riverside

- Levels of all monitored parameters have been within historical normals since September meeting.
- A replacement TECO 55i CH4/NMHC Analyzer was Installed October 3
- The AER Board of Directors Toured Station on October 28 and were given presentation on PAMZ beforehand
- Kevin presented an updated summary of the Sharp vs. the Teom at the station which now includes relative humidity. No clear correlations are emerging.
- The City of Red Deer is upgrading the gravel pad in front of station with work starting today

Martha Portable

- The Martha Station is still at the Ponoka location
- Levels of monitored compounds are similar to those in other medium-sized towns where PAMZ has conducted monitoring
- NMHC Spikes probably associated with Tank Truck Deliveries, Kevin is following up with

head office for record of delivery times

- Zero Air Generator – Board failed Oct 3, no downtime, replacement ordered (\$1800), order cancelled after FOCUS was able to replace faulty pressure switch
- NMHC Analyzer failed Oct 25, new rotor installed and column baked out Oct 26
- Station will move to Lancaster once permanent development application approved by City of Red Deer

McCoy Portable

- The McCoy Station was installed at the Crossfield-carstairs site on Sep. 10 and will be onsite through March 2015
- Levels within historical normals since September with exception of PM_{2.5}
- Two Hourly PM_{2.5} Guideline Exceedences
 - Sep. 24 2300-2400 92 ug/m³ WSW 11 k/hr Grain Dust
 - Oct. 21 1800-1900 87 ug/m³ SSW 8 km/hr No source attributed

Red Deer Lancaster

- Development application submitted Oct. 3
- Development officer approved Nov. 12
- The approval and notice will be advertised today
- The deadline for filing an appeal Nov. 28
- Could receive final approval as early as Dec. 1
- Power will be temporary to spring
- Permanent power, fencing & landscaping will be completed in spring 2015
- Negotiating land use agreement with City and renegotiating Riverside site land use agreement

Passives

- Levels and patterns consistent with historical normals for August and September
- CRAZ also saw high SO₂ in May 2015 and following up with Parks Canada re: any controlled burns
- CRAZ Passives are a magnitude higher at several locations possibly local influences (Highwood)
- Poor precision on duplicates

7. AQM Plan Update

- PAMZ Signed Contract with Stantec Sept. 10, additional scope of work (Objectives Workshop) updated Oct. 23
- Ambient Air Quality Monitoring objectives held October 14 at GH Dawe Center in Red Deer
- 12 attendees + Stantec (2) and Kim Sanderson
- morning historical objectives, afternoon future objectives
- Common themes emerged and some carried over from historical into future
- A few objectives were identified that were outside the scope of a monitoring program
- Met with Erin Evans on Tuesday, Nov 11 for progress update
- Some challenges in documenting an existing program versus developing plan for a new program

- Not much information pre-1999 when original AQM plan was developed
- Temporary monitoring locations with portable issues-based monitoring uses different siting criteria than permanent regional continuous and passive sites
- Will use the 2008-09 Emissions Inventory in plan
- Stantec currently looking at the O3 Modelling Work done by Environment Canada at 2007 that looked at source contributions
- Erin will follow up with AEMERA for clarification of requirements for some of the plan's sections
- On track for delivery of draft plan on December 16

TWG will review draft and provide comments back to Kevin by January 9, 2015

8. Ozone and PM2.5 Management Plans

Max Mazur provided an update on the status of the development of the PM_{2.5} response plan. ESRD is still evaluating the actions assigned to it under the O₃ management plan.

At this point in time ESRD believes that NO₂ levels in and around Red Deer are a major contributor to the formation of secondary PM_{2.5} in the Red Deer area. Further modeling and work need to be done to confirm this.

The PM_{2.5} Advisory Group is meeting Nov. 20 to review ESRD's progress on the plan. A stakeholders information session will be held on Nov. 28 in Red Deer.

BREAK

9. 2015 Funding and Budget Allocations

Kevin ran through the draft budget and funding allocation. (The final approved versions are attached).

As much as possible efforts have been made to keep the contributions of the remaining EPEA Plant members at a similar level to 2014 even with the closing of the Shell Burnt Timber Plant in 2014, however these plants in total will pay approx. \$58K more than in 2014. Program costs are 1% lower however there is a much smaller surplus carrying forward into 2015 than there was at the end of 2013.

The Martha Station will be permanently located at Lancaster with future funding for operations coming from AEMERA.

The mountain park passive stations will be removed from program once the AQM Program Plan is approved by ESRD/AEMERA.

Station communications costs have been reduced by moving all modems to a pooled data usage plan.

The preparation of the Lancaster site special project has been moved into 2015. Funding for the Anti-idling Program project is being provided by Lotteries Fund.

There will be no contributions to the capital replacement fund for 2015 and no

replacements are being planned unless there is a major equipment failure. This will leave \$119K in the fund at the end of 2015 if no funds from it are needed.

The group approved by consensus the budget and allocation recommendations for the PAMZ Board Meeting next week as presented.

10. Other Business

2015 Meeting Dates

TWG	Board
Jan 16	Jan 21
Apr 10	Apr 15
Jun 12	Jun 17
Sep 18	Sep 23
Nov 20	Nov 25

AAC-AEMERA Developments

- AAC Executive met with AEMERA Board and Interim CEO Jay Nagendran in early October and then again with Jay only on Oct 24
- AEMERA stressed it's desire to empower the airsheds to continue their successful role within the new provincial monitoring system.
- They asked are airsheds willing to work with AEMERA as a collective airsheds body? It could be the AAC or ?
- AAC subsequently submitted a formal proposal to AEMERA to fund the development of a draft framework to share with AEMERA by December, AEMERA is giving AAC a grant for \$35,000 to fund the work
- A consultant, Karla Reesor has been hired to work with AAC on this. Karla interviewed Kevin & Aaron Thursday Nov. 6
- Airsheds' executive directors and chairs are meeting with Karla to review her straw dog proposal on Nov. 18 in Sherwood Park
- Draft framework due to AEMERA in December so they can incorporate it into their 2015 budget deliberations
- Final proposal due March 31
- Lots of work to get all 9 Airsheds' board of directors to review and approve (or not) in 1st quarter of 2015

10. Upcoming Events

AAC – AEMERA Proposal Workshop Sherwood Park November 18

PAMZ Board Meeting – Wednesday November 19 (No presentation, focus on the budget)

AAC Technical Committee Edmonton Nov 24

11. Next Meeting

The next meeting of the TWG will be January 14, 2015 at the New AER Red Deer and AER Midnapore AER Offices with a videoconference link.

12. Adjournment

The meeting was adjourned at 12:00 hrs.