

**Canexus-ERCO Worldwide-UNIVAR-Terrapure Environmental
North Shore Community Advisory Panel (CAP)
MEETING SUMMARY NOTES
ERCO Worldwide, 100 Forrester St
5:00 pm ERCO Tour, Dinner & Meeting 6:00 pm to 8:00 pm
Tuesday, September 27, 2016**

Attendance

Tom Miller, ERCO Worldwide
Brian Scott, ERCO Worldwide
Helene Holt, ERCO Worldwide

Tony Gutenberg, Canexus
Rob Schultz, Canexus
Brad Wilder, Univar
Steve Spence, Terrapure Environmental
Dan Cantafio, Terrapure Environmental
Patricia Banning-Lover, Wild Bird Trust
Dennis Gornall, Wild Bird Trust
Dorit Mason, NSEM
Cindy Jeromin, Port of Vancouver
Stuart Porter-Hogan, Maplewood
Community Association
Sharon Porter, Resident
Val Hammerberg, Resident
Lisa Richardson, Resident
Calvin Tran, Miles Industries
Robert Straw, Miles Industries
Max Meyer, Miles Industries

Regrets

Rick Denton, Canexus
Robin Lee, Univar

John Miller, Lower Capilano Residents
Association

Cathy Brydon, Resident
Alex McNeil, Blueridge Community Assoc.
Richard Beard, Wild Bird Trust

1. Introductions

CAP members introduced themselves and welcomed new members.

CAP members who had participated in the ERCO tour provided positive feedback.

Tom Miller offered the possibility of a more in depth tour for interested CAP members. The Maplewood community charrette taking place on October 18th & 19th was raised. Daniela encouraged interested members to attend and noted that she would attend the Open House event on October 19th and report back to CAP.

2. Update on CAP online presence

Daniela noted that the visibility of CAP on the District website had now improved, and thanked Dorit Mason for speaking to the webmaster in this regard. CAP minutes have now been posted on the site as well. Terms of Reference currently on the site are from 2011, and Daniela is working on updating these. She will bring them to the next meeting for members' review.

Dorit is exploring the possibility of having a link from the industry section of the NSEM site to the District site. Preference is to keep CAP hosted on the District site.

3. Update from NSEM

Following up on a meeting between Daniela, Dorit and Robin from Univar that was discussed in the CAP wrap up meeting, Dorit presented her input on CAP community outreach ideas.

Dorit emphasized the importance of business for community. She noted that business failure in any emergency would be a secondary disaster; therefore, business readiness for emergency preparedness is crucial.

There are 9800 business licenses on the North Shore, and it is estimated that 75% don't have an emergency preparedness plan. 25% of businesses forced to close will never reopen. There is a huge cost of this, including loss of services, important data, impact on neighbouring structures and transportation networks, and injury/death.

From a recent earthquake study conducted by Natural Resources Canada, DNV, and NSEM, the loss would be \$4.4 million per day in the North Van District, ie. 90% of daily revenue. The study can be found by searching 'earthquake study' at dnv.org.

To mitigate the loss, the best return on investment is to focus on buildings, seismic retrofits for commercial sites.

NSEM developed a Business and Employer's Emergency Program (BEEP) and did business outreach in 2016 with support from Insurance Bureau of Canada.

Developed resources for businesses:

1. 2 minute questionnaire

2. 10 minute “mini-BEEP” plan
3. 1 hour fill in the blanks emergency plan
4. Longer than an hour – Read BLEEP guide
5. More individualized business preparation

Philosophy is “start small, think big”.

Result is 11% of businesses were better prepared. These results improve with additional steps of follow up.

Focusing on building business resilience will lead to greater community resilience.

The biggest challenge is having someone get behind this, for which face to face follow up is needed. Dorit’s request is to have funding to be able to do this. Question posed to members by Daniela was whether CAP would like to look at funding this as CAP outreach. Members were in agreement.

Members discussed the challenge of engaging people when they think it will never happen to them, and if so, that it won’t happen again! Through engaging in business preparedness with staff, the preparedness can filter down to the personal level as well.

CAP members’ ideas:

-Approach Real Estate Board of Greater Vancouver – give information they can include in their realtors’ program.

-Put checklists at libraries – but more economical to put online! It was noted that the tools are available on the NSEM website.

-Suggestion to use co-op students for business follow up. ERCO noted they are willing to participate in sponsorship.

-Mobilization of seniors as in Port Alberni.

-Offering discounts for residents like in West Van, make it fashionable!

Port noted it would sponsor a program with specific objectives and the manpower to ensure long-term sustainability. Dorit will work on preparing this plan, and present to CAP members at the next meeting.

4. CAP Outreach Discussion

Daniela noted that there had also been discussion around CAP visibility at community events and the idea of having a poster rather than flyers that are discarded. She mentioned the idea of designing something creative that would catch people’s attention. This discussion was postponed to the next meeting due to time constraints.

Daniela also asked if people would be interested in having a speaker on community engagement at a future meeting. Members indicated interest.

5. Agenda Brainstorming for the Year

This was postponed to the next meeting due to time constraints. Daniela requested members think about ideas in the meantime.

6. Reports from the Companies:

a) Canexus

Rob Schultz reported that there have been no safety, environmental or security incidents since the last CAP meeting in July. However, there was a reportable transportation event in July when a chlorine car was inadvertently overloaded by approximately 1,800 kg. This was due to a scale computer issue that could not be detected at loading, but was fully resolved afterwards. There was no impact from the incident other than the car being beyond weight limit. Additional measures have been put in place to prevent recurrence of such an incidence. This was the first instance of an overloaded railcar shipped from the site in over 10 years.

Canexus will host a Chlorep Level 2 event next week with over 22 Chlorine first responder participants from the Vancouver region. This event is focused around training contractors who provide service for ERAP plans as well as local hazmat responders who may be the initial responders to an event. This is a yearly initiative hosted at various plant sites and participants include North Vancouver City, CN & Transport Canada.

Canexus has continued to do community outreach with various school programs. I-Zombie is using the Canexus site for filming of its third movie, and Canexus presented a donation of \$750 from this revenue to the Wild Bird Trust.

The Canexus plant resumed full operation in August after the chlorine compressor damaged one year previously returned to service. A 10-day maintenance shutdown is scheduled for mid-October.

b) ERCO Worldwide

Tom Miller reported that a process incident occurred on August 6th on Line 8, resulting in the over-pressurization of several cell line reactors. Damage occurred to several reactors and associated piping in the Line 8 cell building. There were no injuries, no releases to the environment, and no need to activate emergency response personnel. The primary root cause was that the cell line liquor pH was out of acceptable operating range upon startup, resulting in rapid generation of oxygen. The cell line was down for 4 weeks to allow for completion of: incident investigation, repairs to reactors and associated piping, re-

training, and the completion of several actions as per the investigation. The cell line was successfully restarted on September 7th without issue.

There have been 132 days since the last Recordable safety incident reported at the previous CAP meeting. ERCO Responsible Care Committee was on site for 2 days of meetings at the end of August for their annual review of plant operations. On September 2nd, third party compliance testing of EVS scrubber was conducted, and emissions were well within permit parameters.

c) Univar

Brad Wilder noted that there had been one external contractor reportable, a foot sprain during paving operations. The root cause was determined to be management systems, specifically how subcontractors work together. The company concerned is not permitted back onsite until they can demonstrate changes to their internal management systems. Univar is reviewing its vetting process for subcontractors.

Univar is undertaking major preventative maintenance jobs, including 9501 & 9502 internal tank inspections, upgrading of the dock hiab crane, and major cleaning, foam repair & recoating work on the caustic tanks. In early October, Univar is moving away from loading hose, and using hard pipe loading arm for DEG.

Univar made its annual contribution of \$300 to the North Vancouver Firefighter Fishing Derby, as well as a contribution of \$1000 to the West Coast Pulp Charity Event, supporting literacy in BC.

d) Terrapure Environmental

Steve Spence reported that Terrapure Environmental experienced a short power failure by the city on September 17th, which caused significant issues upon attempted start-up. Parts of the plant re-started Sunday night while other components did not come on-line until Tuesday, September 20th. There were no emissions or spills recorded, as well as no accidents or injuries reported. Terrapure's planned annual shutdown is still scheduled for 7-10 days in mid-October,.

The facility continues to operate injury free, adding to its record 5000+ days of injury free operation achieved in the summer. As part of ongoing safety improvement and training, Terrapure is currently reviewing and revising all operational SOP's.

Plant operations staff have been training with the North Vancouver Fire Department at their Lynnmour site. Feedback on both sides has been positive, and further training sessions will be planned for the future.

7. Other Business

Patricia Banning-Lover announced that she was retiring from the Wild Bird Trust, and therefore this was her last CAP meeting in this capacity. Members thanked Patricia for the very valuable work she has done and wished her well.

Dorit informed members about the Shakeout Drill happening on October 20th and encouraged everyone to go online and participate.

8. Meeting Evaluation and Close

The meeting ended at 8:15pm. A brief evaluation indicated members were happy with the meeting.

The next CAP meeting is scheduled for November 15th, location TBA.

Community Advisory Panel (CAP) September 27, 2016 Briefing Notes

Responsible Care – Safety, Security, & Environmental:

➤ Safety & Environmental:

- There have been no Safety incidents to Employees or Contractors since the last CAP meeting in July.
- There have also been no Environmental reportable incidents since the last meeting.
- As of early September, the facility reached over one year without a recordable safety incident.

➤ Security:

- There have been no Security incidents since the last CAP meeting.

➤ Transportation:

- There was one reportable transportation event in July when a chlorine car was inadvertently overloaded by approximately 1,800 kg or ~2% in total weight vs. the railcar load limit. The overload was due to a scale computer / load cell issue that could not be detected at the time of loading, but that was fully resolved after the occurrence.
- The railcar had travelled to California where it was scaled by the railway and determined to be overweight. It was then sent to a local customer, off-loaded, and verified by calculating the product used. There was no impact from the overload incident other than the car being beyond weight limit.
- Additional measures have been put in place to prevent recurrence of such an incident.
- This was the first instance of an overloaded railcar shipped from the site in more than 10 years.

➤ Responsible Care in our Community:

- The plant is hosting a Chlorep Level 2 event next week at the plant site with over 22 Chlorine first responders expected to participate from the Vancouver region. The event is being held over two days at our plant site focusing on chlorine response. The event is focused around training contractors who provide service for ERAP plans as well as local hazmat responders who may be the initial responders to an event. Participants include N.V. City, CN & Transport Canada. The initiative began in 2010 and is hosted at one of the following locations each year – Canexus North Van, Erco – Saskatoon, Olin - Becancour QC & Axiall – Beauharnois QC.

- The plant is hosting another Squamish First Nations Alternative High School (pipe fitters) program tour of our plant on October 6th.
- Canexus was a guest lecturer to the UBC Engineering Masters students, speaking on Industrial Safety.
- Plant tours held for Fraser Academy, Sir Charles Tupper Secondary.
- Student placement host for Minerals Ed programme (Heritage Woods School student from Port Moody).
- Engineering activities (after school programme for at risk youth) at elementary schools (Surrey School district).
- Presentation on boat tour Minerals Ed/NSWIA.
- Canexus commitment to the BC Film industry, allowing our facility to be used.

Plant Operations:

- The plant had operated at reduced rates for about a one year period into August of this year when the chlorine compressor that was damaged in an August 31, 2015 event Safely & Successfully returned to service. Since that time, the plant has operated well at full rates.
- The plant will begin a scheduled 10 day maintenance shutdown in mid-October.
- Projections for continued soft market demand in our Hydrochloric Acid markets are likely to have the facility operate below capacity levels after the shutdown for the balance of the year.

Presentation on behalf of Canexus.



ERCO Worldwide

ERCO Worldwide Update

(since last report on July 5, 2016)

- **Operations**
 - On August 6th, a process incident occurred on Line 8, resulting in the over-pressurization of several cell line reactors. Damage occurred to several reactors and associated piping in the Line 8 cell building. There were no injuries, no releases to the environment, and no need to activate emergency response personnel. An investigation into the process incident has been completed and corrective actions implemented. The primary root cause was that the cell line liquor pH was out of acceptable operating range upon startup, resulting in rapid generation of oxygen. The cell line was down for 4 weeks to allow for completion of: incident investigation, repairs to reactors and associated piping, re-training, and the completion of several actions as per the investigation. The cell line was successfully restarted on Sept. 7th without issue.

- **Safety/Environmental**
 - 132 days since last Recordable safety incident (05/17/16) which was reported at last meeting – Storesperson moved a box on shelving in Stores, and dust dropped off the box behind his safety glasses into left eye. Rubbing of eye caused scratch, necessitating prescribed eye drop solution.
 - ERCO Responsible Care Committee was on site for 2 days of meetings at end of August to review all aspects of plant operations. This review is done annually at all sites.
 - Sept. 2nd – Third party compliance testing of EVS scrubber occurred – emissions were well within permit parameters.
 - Paul Leyen, Technical & Environmental Manager attended corporate environmental review meeting at Toronto office with all environmental managers in September.

- **Miscellaneous**
 - Two university engineering students were employed in packaging department over the summer. This provided the students with valuable industrial experience and assisted ERCO in providing summer vacation relief to our operators.
 - Aug 27th – ERCO NV golf tournament
 - Sept 25th – ERCO Service Awards dinner at Hart House

Tom Miller

September 27, 2016



Univar Canada update – September 2016

Safety

- No Univar or embedded contractor reportables
- One contractor reportable – foot sprain during paving operations - DAWC
 - Root cause determined to be management systems – how subcontractors work together
 - Company no longer allowed to work on site until they can demonstrate changes to their internal management systems
 - Univar reviewing its vetting processes as to how it handles subcontractors

Environmental

- No issues

Operations

- Running normally
- Major preventative maintenance jobs
 - 9501 & 9502 internal tank inspections
 - Upgrade of dock hiab crane
 - Major work on the caustic tanks RE cleaning, foam repair & recoating

Projects

- Moving away from loading hose, and using hard pipe loading arm for DEG – early October

Responsible Care/Community

- Annual contribution (\$300) to North Vancouver Firefighter Fishing Derby

District of North Vancouver Fire and Rescue 5th Annual Charity Fishing Derby is raising funds for both the Seymour Salmonid Society and Athletics for Kids. Last year, with the help of our 150 participants, we raised \$12,000 for our two charities!

- Contributed to West Coast Pulp Charity Event (\$1000) – these are our caustic customers

Excerpt RE the Charity

*○ Last year, during our 10th anniversary celebration, we eclipsed the mark of having been responsible for over \$1.0 million being distributed to help literacy in BC, through the generous support of our sponsors and tournament attendees. This event continues to provide funds to **Raise-A-Reader** as the largest single donator in the lower mainland – this is something we are very proud of. All donations made to the tournament are actually increased when our BC Government also pledges a certain percentage of funds to increase our donation to these benefactors – this percentage varies year to year, but it has generally amounted to an additional 50% in the recent past.*

- Planning on attending an event to highlight job/career development for Squamish First Nation

Current status

- Facility is currently operating at full capacity.
- We experienced a short power failure (city to the site) Saturday morning, September 17 which caused significant issues upon attempted start-up. Several units had to be taken off-line and cleaned/repared. Parts of the plant re-started Sunday night while other components did not come on-line until Tuesday, September 20. Highlights of this un-planned shutdown include:
 - No emissions or spills recorded
 - No accidents or injuries reported, including Terrapure employees and contractors brought in to help with repairs
- Our planned annual shutdown is still scheduled for Mid-October and is expected to last for 7-10 days.

Health, Safety and Environment

- Facility continues to operate injury free, adding to our record 5000+ days of injury free operation achieved this summer.
- No emissions or spills have occurred at the facility since our last meeting.
- In the interest of continued safety improvement and training we are currently reviewing and revising all operational SOP's.

Training

- Plant operations staff have been training with the North Vancouver Fire Department at their Lynnmour site. Training included extinguisher use, SCBA and smokehouse exercises. The feedback received from both our staff and the NVFD was extremely positive. More training sessions are planned in the future.