

**Chemtrade Logistics-ERCO Worldwide-Univar Canada-Terrapure Environmental
North Shore Community Advisory Panel (CAP)
MEETING SUMMARY NOTES
NSEM, 147 E. 14th Street, North Vancouver
5:30 pm Dinner/Meeting 6:00 pm to 8:00 pm
Tuesday, September 26, 2017**

Attendance

Robin Lee, Univar
Brian Scott, ERCO Worldwide
Helene Holt, ERCO Worldwide
Tony Gutenberg, Chemtrade Logistics
Steve Spence, Terrapure Environmental
John Miller, Lower Capilano Residents Association
Mike Andrews, NSEM
Karen Rendek, DNV
Tracey Godin, Miles Industries
Lisa Richardson, Resident
Val Hammerberg, Resident

Regrets

Rick Denton, Chemtrade Logistics
Rob Schultz, Chemtrade Logistics
Tom Miller, ERCO Worldwide
Dan Cantafio, Terrapure Environmental
Alex McNeil, Blueridge Community Assoc.
Carleen Thomas, Wild Bird Trust
Duncan Webb, Port of Vancouver
Dorit Mason, Resident
Dave Mair, Resident

1. Introductions

CAP members introduced themselves and welcomed new members.

2. Feedback on Wrap Up

Members who attended the June Wrap Up at the Maritime Museum provided positive feedback on the venue. Transport to and from the venue was appreciated by members. For members who had not attended, the location of the venue was not a factor.

There was a suggestion to have this year's Wrap Up at Maplewood Farm. Karen from DNV will speak to her contact there and get back to the facilitator about this possibility.

3. Terms of Reference Review

Terms of Reference and Guiding Principles for CAP Communications were reviewed. The only changes made to these documents were the name change from Canexus to Chemtrade Logistics.

4. CAP Outreach

Members reviewed the revised CAP one pager the facilitator had compiled (see attached).

Suggestions were to add the company logos, NSEM logo and DNV logo, as well as the Responsible Care logo, and to use the Responsible Care colours. Also, to add a line in the title that said “local industry in your community”, as well as a line in the first descriptive paragraph that specifies the community more by stating that CAP is for Maplewood and other interested residents.

There was discussion of using the photo taken during the CAP members’ tour of ERCO last year on the one pager.

Another edit was to change the description of the Rapid Notify Network to a system that *may* be used by police, fire, or emergency operations center to notify as many residents and businesses as quickly as possible to emergency situations. There should also be a link directing people to the DNV website for additional information.

For the current information that would change a few times per year, we could have an insert at the bottom with the 2017-2018 meeting dates.

There was a suggestion to put QR code in the document which would pull all the websites up on the web browser, for instance, DNV and Rapid Notify.

There was a question around monitoring outreach efforts, in terms of tracking how many sign up for Rapid Notify and when they sign up. This is not tracked.

Mike from NSEM clarified that they have shifted to operational readiness instead of education of the public that often isn’t listening. They are also focusing on youth as a target audience and are running a youth emergency preparedness program.

CAP outreach challenge: Bring a friend to the next meeting. Discussion of being strategic about this, bringing the person who will be the best promoter of the information to others. The suggestion was made to reach out to the Principal of Kenneth Gordon Elementary School as well as businesses in Northwood Village such as Arterics.

5. NSEM Presentation

Mike Andrews presented an overview of NSEM's current operations. Please see the attached presentation for more information.

NSEM thanked industry partners for supporting the Quake Cottage. This was very successful with 3,000 people attending.

6. 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.

7. Reports from the Companies:

a) Chemtrade

Tony Gutenberg reported that there have been no safety, security or transportation incidents since the last CAP meeting in July. There was one new Environmental incident on August 29th when the plant steam boiler tripped offline due to a system upset, and because the two Boiler Safety valves did not close as they should have, gas was emitted into the atmosphere for several minutes until the Operator could close the manual isolation on the gas line. Approximately 120 kg of natural gas was released without further incident. The failed valves have been replaced and sent in for comprehensive investigation. Follow up actions will be undertaken once the root cause of the valve failures is determined.

The plant recently hosted student tours from various regional schools as part of regular outreach. Along with the other CAP companies, Chemtrade is sponsoring the Quake Cottage again this year.

The transition from Canexus to Chemtrade has caused little change in plant operations as functional reporting lines, operating computer systems and policies are being integrated over the rest of the year. Chemtrade is committed to continuing the same level of engagement and support of the local community. October 9th is the 60th anniversary of the plant operation in North Vancouver.

b) ERCO Worldwide

Brian Scott reported that there were no Recordable injuries or first aids throughout the summer, and employees have now worked 497 days since the last Recordable safety incident (05/17/16) and 2456 days since the last Lost Time Accident (LTA).

On August 1st-2nd, there was Third Party compliance testing of gaseous scrubbers on site, and all results were well within permit limits.

ERCO has a new project underway which addresses the site's Worst Case scenario – a loss of containment of Hydrochloric acid from their storage tank or during offloading of an acid delivery truck. A spill of Hydrochloric acid would result in hazardous HCl vapours and liquid having a negative impact on the plant, the environment, and the neighbours beyond plant boundaries. Phase I (currently underway) is to build an underground containment pit and splash pad, reducing the spread of HCl liquid and fume cloud in the event of a catastrophic tank failure – any spillage out of containment will now be directed into underground containment. The splash pad will prevent spills from a burst hose or broken connection getting onto roadway and be directed to the underground containment pit. Construction is scheduled for completion at end of October. Phase II is to replace the existing HCl tank in spring 2018. This project is intended to address the risks identified in ERCO's Risk Assessment Study by eliminating or reducing them. Tom Miller will provide an update on this project at a future CAP meeting.

On September 28th-29th, ERCO management will be onsite for an annual review of plant operations including site Responsible Care goals and activities and site operations.

During the week of November 13th, a Layers of Protection Analysis study will be performed on cell line 8 to determine if any process safety improvements can be made.

Along with the other CAP companies, ERCO is sponsoring the Quake Cottage again this fall.

c) Univar

Robin Lee noted that there continues to be interest in moving more and/or different products through the Port, and if any become viable options for projects at the site, Univar will immediately share with the CAP membership.

There have been no reportables, now 530 days since the last personal safety reportable. An operator struck himself in the face (line of fire incident) while working under a railcar. Equipment Damage occurred when CN hit the rail ramp when pulling cars. The root cause was equipment failure; however, immediate causes were failure to follow procedures by both Univar (not chaining ramps) and CN (accessing track when ramp not fully retracted).

Tank work found some dried caustic at the test hole which resulted in the decision to internally inspect the tank earlier than planned. Inspection went well and the tank has been certified for another 10 years. Univar also supported the Quake Cottage and has provided a donation to the Wild Bird Trust.

d) Terrapure Environmental

Steve Spence reported that the plant continues to operate injury free. The facility received an odour complaint from the public on September 18th. During the cleaning of

water tanks during a planned maintenance project, wash water was removed using a vacuum truck. While filling the vacuum truck, fugitive vapours were released. They were not captured and produced a noticeable odour that travelled with the wind to the North-West corner of the plant. An odour complaint was received from the 2200 Dollarton area. Terrapure immediately enacted the odour complaint procedure, determined the source and ensured tank cleaning procedures would not generate further fugitive odours. They are also looking at a vendor that can provide mobile vapour treatment for tank cleaning and vacuum truck applications in the future.

A Transport Canada inspection conducted in August found no major deficiencies, although a few waste manifest documentation issues were noted and corrected.

Terrapure will send around 12 staff members to fire-fighter training at the Justice Institute in November.

8. Maplewood Planning Process

Karen Rendek reported that DNV is nearing the completion of Phase 3 of the Maplewood Planning process. Over 400 survey responses have been received so far. There will be a Council Workshop to present the results of the public and stakeholder feedback received, and the final draft plan will be sent to Council for consideration of approval in early November.

9. Meeting Evaluation and Close

The meeting ended at 8:15pm.

The next CAP meeting is scheduled for November 21st, location TBC.



Community Advisory Panel (CAP)

September 26, 2017 Briefing Notes

Responsible Care – Safety, Security, & Environmental:

- Safety: There have been no new Safety incidents since the last CAP meeting in June.
- Environmental: There has been one new Environmental incidents since the last CAP meeting in June as follows:
 - On August 29th the plant steam boiler tripped off-line due to a system upset, which of itself is a routine instance. However, when the boiler tripped the two Boiler Safety Valves, which are designed to close and stop natural gas flow, did not close as they should have and gas flowed out to atmosphere for several minutes until the Operator was able to close the manual isolation on the gas line.
 - Approximately 120 kg of natural gas was released to atmosphere, fortunately without further incident.
 - The two valves in question were changed out, the replacement ones are working exactly as designed and the failed ones has been sent for comprehensive investigation to determine why they failed to close as designed to. The valves were stiff to the point where the actuators could not close them as they should, but did not have any foreign material or visible issues.
 - Follow-up action items will be undertaken once the root-cause of the valve failures is determined.
- Security:
 - There have been no Security incidents since the last CAP meeting.
- Transportation:
 - There have been no Transportation incidents since the last CAP meeting.
- Responsible Care in our Community:
 - The plant recently hosted more student tours from various regional schools during the last few months – part of our regular outreach and opportunity to communicate the important work we do in making the products we do and how they contribute to our society overall.
 - The plant was once again pleased to contribute to the Quake cottage, joining Terrapure, Univar and Erco.

Plant Operations:

- The plant has been operating at capacity levels since April and is anticipated to continue at high operating rates for the balance of the year. The next planned shutdown will take place in April, 2018.
- The transition from Canexus to Chemtrade is progressing well with very little change being experienced with respect to the plant operation side as functional reporting lines, operating computer systems and policies are being integrated over the balance of this year. Chemtrade is committed to continuing the same level of engagement and support of the local community as has been the history of Canexus and predecessor companies dating back to 1957.
- October 9th will mark the 60th Anniversary of the plant operation in North Vancouver with a strong future ahead of us providing valuable employment and products for the community and country.

ERCO Worldwide Update

(since last report on June 20, 2017)

- **Operations**
 - Plant has operated at capacity throughout the summer with few issues. Scheduled shutdowns occurred on Line 7 (July 19 & Sept 20th) & Line 8 (Aug 16th) for maintenance and cell line acidwashes.
- **Safety/Environmental**
 - Employees continue to work safely - No Recordable injuries or first aids throughout the summer. As of today, the employees have worked 497 days since last Recordable safety incident (05/17/16) & 2456 days since last Lost Time Accident (LTA).
 - Aug 1-2: 3rd Party compliance testing of gaseous scrubbers on site – all results were well within permit limits.
 - New project currently underway – which addresses our site’s Worst Case scenario – a loss of containment of Hydrochloric acid from our storage tank or during offloading of an acid delivery truck. A spill of Hydrochloric acid would result in hazardous HCl vapours and liquid having a negative impact on the plant, the environment, and the neighbours beyond plant boundaries. Phase I (currently underway) is to build an underground containment pit and splash pad, reducing the spread of HCl liquid and fume cloud in the event of a catastrophic tank failure – any spillage out of containment will now be directed into underground containment. The splash pad will prevent spills from a burst hose or broken connection getting onto roadway and be directed to the underground containment pit. Construction is scheduled for completion at end of October. Phase II is to replace the existing HCl tank in spring 2018. This project is intended to address the risks identified in our Risk Assessment Study by eliminating or reducing them. Tom Miller will update this project at a future CAP meeting.
- **Miscellaneous**
 - ERCO and the other CAP companies are sponsoring the Quake Cottage’s return to North Vancouver this fall
 - On September 28-29th, ERCO management on site for annual review of plant operations: Day 1 is a review of site Responsible Care goals & activities, and Day 2 involves review of site operations.
 - NV is currently in preparation for a 6-day plant outage starting on October 10th for scheduled maintenance and capital project installations

- During week of November 13th, a LOPA process study (Layers of Protection Analysis) will be performed on cell line 8 to see if any process safety improvements can be made. This study will involve corporate & site engineers, maintenance and operations.

Tom Miller

September 26, 2017

Current status

- Facility is currently operating at full capacity
- Annual turnaround scheduled for October 22 (10 days)

Health, Safety and Environment

- Our facility continues to operate injury free
- We received an odour complaint from the public on 9/18/17
 - Background – A planned maintenance project was occurring on 9/18 involving the roof replacement on two 90,000L process water tanks. In order to replace a roof, each tank had to be emptied and cleaned to allow a safe environment for cutting and welding.
 - Action causing emission release – During the cleaning of the tanks, the man-doors were removed and sludge and wash water was removed from each tank using a vacuum truck. During the process of filling the vacuum truck, fugitive vapours were released as the vapour space in the tank was filled. These vapours were not captured and produced a noticeable odour travelling with the wind to the North-West corner of our facility
 - Nature of the Complaint – Shortly after the odour causing event, we received a call from our Permitting Officer at Metro Vancouver advising us they had just received an odour complaint from the 2200 Dollarton area.
 - Follow up - Immediately after receiving the complaint we enacted our odour complaint procedure, determined the source and ensured our tank cleaning procedures would not generate anymore fugitive odours. We are also looking at a vendor that can provide mobile vapour treatment for tank cleaning and vacuum truck applications in the future.

Training and Audits

- Recently completed inspections and certifications of jib points and rigging equipment.
- Sending approximately 12 staff members to fire-fighter training at the Justice Institute in November.
- Facility subject to a Transport Canada inspection in August. No major deficiencies found, a few waste manifest documentation issues were noted and corrected.



Univar Canada update – September 2017

Generally site operating well. There continues to be interest in moving more and/or different products through the Port. If any become viable options for projects at the site, Univar will immediately share with the CAP membership.

SAFETY/ENVIRONMENTAL

- No reportables (530 days since last personal safety reportable)
- First aid – operator struck himself in the face (line of fire incident) while working under a railcar
- Equipment Damage – CN hit rail ramp when pulling cars. Root cause – equipment failure however immediate causes were failure to follow procedures by both Univar (not chaining ramps) and CN (accessing track when ramp not fully retracted)

OPERATIONS

- Tank work found some issues (some dried caustic at test hole) which resulted in the decision to internally inspect the tank earlier than planned
- Inspection went well and tank certified for another 10 years
- Some internal coating repair undertaken successfully
- Expect steady volumes overall

RESPONSIBLE CARE & COMMUNITY

- Provided cheque to Wild Bird Trust and supported Quake Cottage
- Health & Safety Audit Review scheduled with MEGlobal in October