

channels

A Pacific Coast Terminals publication for the residents of Port Moody



Christmas Came Early for PCT

Quadrant Shiploader (QSL)

The Quadrant Shiploader (QSL) was originally built in 1998 by Thyssen Krupp. It is capable of loading Panamax size vessels with bulk solid materials.

“ PCT's new systems utilize world class technology and design. ”

Specialists from Indurad in Germany partnered with us to design and implement.

The BCMEA (BC Maritime Employers Association) trainers first learned the system to help write our training and operational manuals before longshore operators were trained.

During a 28 day terminal shutdown at PCT, in the latter half of August and the first half of September this year, PCT did a major upgrade to the QSL. There was a significant amount of work involved and a limited time to complete it. It was a tremendous accomplishment to get all this work completed in only 28 days, thus minimizing the impact to our customers. Two main areas were worked on during the shutdown: structural upgrades, and remote operations.

Structural Upgrades

With the addition of Potash as a dry bulk commodity at PCT, it was necessary to upgrade in order to extend the current QSL's operating capacity to match the new potash requirements. During the engineering process it was realized that it was most beneficial to replace some components on the QSL instead of strengthening them. This led to a hybrid upgrade design that involved reinforcement of the bridge and shuttle sections and the replacement of the boom, mast, and cables.

Concurrent to the structural upgrades, PCT also upgraded the controls on the QSL to allow the operator to be relocated from the cab at the end of the boom, to a control room located in the main office building. This design change provides a safer, more comfortable location for the operators as well as allowed the designers to remove the cab to reduce structural load on the boom.

With these changes in place, the upgraded QSL is capable of loading a vessel at a rate of up to 6,500 tonnes per hour (tph) for sulphur and 6,000 tph for potash.

Remote Operations

Relocating the operator to the main office building posed some technical challenges that,

through technology and ingenuity, PCT was able to overcome.

With the fact that the operator no longer can directly see the QSL and the product being loaded, there were two main hurdles:

First, the project engineers had to ensure that the QSL could not collide with any part of the vessel that it was loading. This was achieved by employing 2D scanners that “see” reflections that bounce off of objects around the QSL. Combining these signals with high accuracy GPS, the system can identify potential collisions and send signals to the QSL to prevent the actual collision.

Second, the system needed to be designed to show the operator how the product was being loaded into the ships hold. In order to do this, a combination of high resolution cameras and 3D scanners was used. The primary system is the cameras, which were

strategically located to give good perspective and coverage. The cameras however, are of limited use in poor lighting conditions or heavy fog. This is where scanners are the perfect solution. The signal is not affected by rain, fog, bad lighting or poor ambient conditions. It penetrates through all of this to show the operator a 3D image representing the contours of the product in the ships hold.

The transition from having an operator on the QSL in a cab to having an operator stationed inside the main office building was achieved smoothly without any interruption to operations. This upgrade keeps PCT among the world leaders in technology innovation for marine terminals and delivers improved operator working conditions and safety while also strengthening terminal productivity and process control.



Right: The bank of monitors showing the operator's multiple camera views and the 3D imagery from the sensors.

Ask an Employee

Robert Zak, Information Technology
Nickname: Bob

Bob has been working with PCT since 1996 and has helped the company implement many of its industry leading technology innovations. Bob's responsibilities at PCT and Sultran, PCT's parent company, recently increased with PCT's expansion.

10 FUN FACTS ABOUT BOB:

1. Bob is a nerd
2. Super nerd (ask his wife)
3. Astrophotography rocks
4. Loves camping and hiking
5. Considers himself a "Sophisticated Hillbilly"
6. Bob thinks the best wine comes from Oregon
7. Family First (even though it is 7th on his list)
8. Frost Bitten Northern BC boy
9. Would really like to sleep in at least once
10. Just can't find the right foot pedal for his stratocaster

Q: Tell us about your life BPCT (before PCT)

A: President of Plananet Data Corp.

Q: What's the best part about working at PCT?

A: Tons of tech to work with.

Q: If you could describe yourself in one word what would it be?

A: Charismatic

Q: If your coworkers described you in one word what would it be?

A: Uncharismatic



Community Connections

This regular section is dedicated to showcasing some of our partnerships and providing important information to the residents of Port Moody.



TREASURES OF CHRISTMAS

The 23rd Annual Treasures of Christmas was a great success. From the delicious Santa Buffet, to a very exciting live auction and evening of dancing – it truly was a magical kick off to the Christmas season. PCT and K+S were proud to co-sponsor the Sponsor Reception again and, although they don't have the final total raised, they're confident the Crossroads Hospice met their goal of \$90,000.



REMEMBRANCE DAY

PCT proudly laid a wreath and sponsored the reception and AV for the Act of Remembrance for the Port Moody Legion.



GIRLS NIGHT OUT – PORT MOODY ARTS CENTRE SOCIETY

The PCT gals were so pleased to have been able to present such a wonderful event, enjoyed by over 200 women in our community, and to raise significant funds for arts and music programming and gallery initiatives at the Port Moody Arts Centre.



Contact

Channels is published three times per year by Pacific Coast Terminals Co. Ltd. 2300 Columbia Street, Port Moody, BC Canada V3H 5J9

Your comments and contributions are welcome. Please forward them to us at:

EMAIL pctinfo@pct.ca
 TEL 604-939-7371

Can't get enough of us? Or maybe just curious?

Being a great neighbour means listening to you, the residents of Port Moody. It also means keeping you aware of what is happening at the terminal and how the company participates in the community.

Sharing information regarding our organization, events that we participate in and pictures throughout our site and our community is important to us. In addition to contacting us directly, there are a number of ways that residents can learn more about our operations, our current expansion, our history and our local involvement.

Come check us out!



www.pct.ca



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Upcoming Events..



The annual Chamber GALA will be held Saturday, **January 28th, 2017** at the Molson Canadian Theatre at the Hard Rock Casino Vancouver. The evening will be filled with excellent food and drink, games, prizes, and dancing! They will also be announcing the winners of our 16th annual Business Excellence Awards. The evening will begin with a Champagne Reception at 6 p.m. before moving into the theatre for a delicious buffet dinner, award presentations and entertainment!



You'll be delighted to know that planning for **IMAGINE 2017** is underway and is set to take place once again at the Hard Rock Casino Vancouver on **Saturday, March 4, 2017!** IMAGINE is SHARE Family & Community Services' signature fundraising event where the community comes together to support our community. Last year, the event raised almost \$100,000, with over 350 people in attendance. **IMAGINE 2017** marks the 12th anniversary of SHARE's signature fundraising event, so we have some exciting new plans for the evening in store!



It's time to brighten things up. Put on your sunniest yellow outfit, grab your friends and be part of this fun, family-friendly event. There are great prizes for the wackiest, craziest, yellow-est costumes, so be bold, have fun, celebrate spring—and be part of this community event to help fight cancer.

Run solo, bring the family or team up with your friends to what promises to be a dazzling day of running, fundraising and fun.

#DaffodilDash

Sunday, April 30, 2017 – 9:00 AM
Rocky Point Park, Port Moody

