



CONTINUOUS IMPROVEMENT INTEGRITY RESPECT CLIENT FOCUSED

## CGT AWARDED MECHANICAL AND PIPING INSTALLATION CONTRACT AT PRETIUM'S BRUCEJACK GOLD MINE PROJECT

Gisborne, through CGT Industrial, was recently awarded the contract for the installation of the mechanical and piping components at Pretium's Brucejack Gold Mine in NW British Columbia. The project is in an isolated area involving an 8 hour bus trip from Terrace BC followed by the need to traverse a glacier to access the site. Snowfall in the area averages a total of 40—60 ft per year making this a challenging endeavor to say the least!

We currently have a small crew on site preparing the laydown area and setting up the office trailers and anticipate dispatching our crews to site towards the middle of November with construction continuing throughout the winter.

Project Manager is Jake Kearsley with Wayne Reville - Construction Manager, and Russ Stoutenburg -General Superintendent providing leadership for the project.



Aerial photo of the site with Brucejack Lake in the background

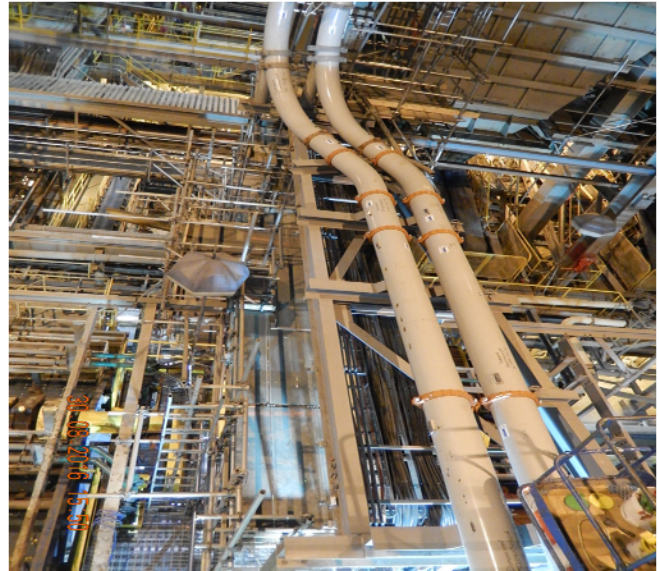
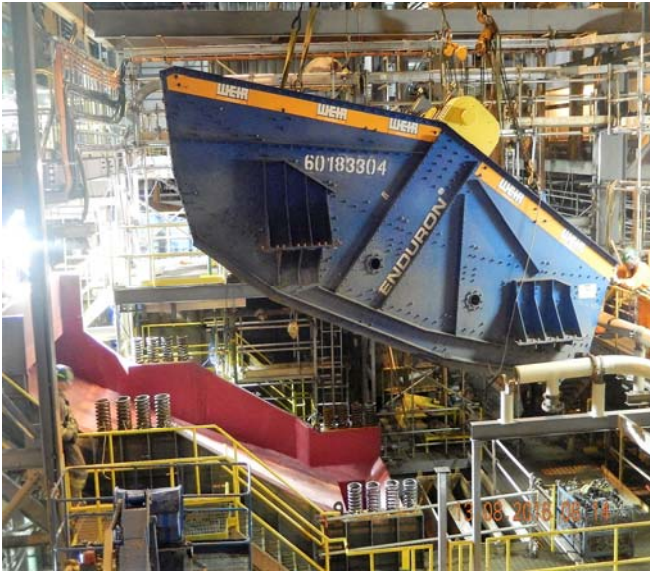


Camp accommodation in the foreground., mill building behind



A 'hint' of what winter will look like @ the project

## CGT INDUSTRIAL CONTINUES WORK AT DOMINION'S EKATI DIAMOND MINE IN THE NW TERRITORIES



CGT was awarded a contract with Dominion Diamond Ekati Corporation at their Diamond Mine in the NW Territories for the Ekati Fines HMS Plant CJ201 Structural, Mechanical, Piping, Electrical and Instrumentation Works.

Halfway through the onsite construction, due to a fire in an unrelated area of the mine, our full team was re-directed to the repair and restoration of the plant. When this work was completed we transitioned back to the original project at the mine, with an expected project completion date of mid December 2016.



**Project Scope:** Demolition of the existing SDR plant foundations, installation of the new Fines HMS plant foundations and floor slab, erection of all structural steel including all flooring, hand rails, and plate work, installation of all mechanical equipment and all piping and accessories, completion of all electrical works including installing a new MCC, reconnecting existing cabling, and installing new cables, and the completion of all the instrumentation works. All three members of CGT—Clark Builders, Gisborne Industrial and Tarpon Energy Services are involved on this project.

## FIRE PROTECTION DIVISION

Our BC and Alberta Fire Protection Divisions continue to be active in all sectors –residential, commercial, institutional and industrial., installing a variety of systems. We often hear or see references to these various systems so we thought we'd give you a brief explanation of some of the more common systems we install .

### WET PIPE SYSTEMS

By a wide margin, wet pipe sprinkler systems are installed more often than all other types of fire sprinkler systems. They also are the most reliable, because they are simple, with the only operating components being the automatic sprinklers and the automatic alarm check valve. An automatic water supply provides water under pressure to the system piping.

### DRY PIPE SYSTEMS

Dry pipe systems are the second most common sprinkler system type. Dry pipe systems are installed in spaces in which the ambient temperature may be cold enough to freeze the water in a wet pipe system, rendering the system inoperable. Dry pipe systems are most often used in unheated buildings, in parking garages, or in refrigerated coolers.

### DELUGE SYSTEMS

"Deluge" systems are systems in which all sprinklers connected to the water piping system are open, in that the heat sensing operating element is removed, or specifically designed as such. These systems are used for special hazards where rapid fire spread is a concern, as they provide a simultaneous application of water over the entire hazard.

### PRE-ACTION SYSTEMS

Pre-action sprinkler systems are specialized for use in locations where accidental activation is undesired, such as in museums with priceless artifacts and for protection of computer/ electrical equipment from accidental water discharge.

#### Operational Sequence Wet Pipe Systems

- \* Heat from a fire causes the heat-actuating plug in the sprinkler to drop from the frame
- \* Water contained in the piping immediately discharges from the open sprinkler
- \* As water begins to flow the alarm check valve opens and activates signaling equipment

#### Operational Sequence Dry Pipe Systems

- \* Heat from a fire causes the heat-actuating plug in the sprinkler to drip from the frame
- \* Pressurized air contained in the piping begins to flow through the open sprinkler
- \* After a slight drop in air pressure, the quick-opening device activates to remove the air from the system so the water can flow through the system

#### Operational Sequence Deluge System

- \* A product of combustion (heat, smoke or flame) detector senses the presence of a fire condition or an individual discovers a fire in progress
- \* The fire detection system sends a signal to the deluge valve, causing the valve to open or the individual can manually trip the deluge valve to release the water in the system

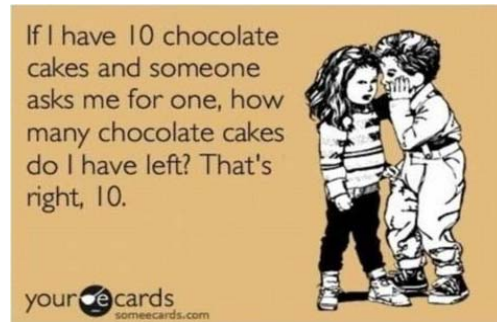
#### Operational Sequence Preaction System

- \* A product of combustion detector senses the presence of a fire condition
- \* The system sends a signal to the preaction valve causing the valve to open
- \* Sensors in the piping system detect the flow of water and trigger the water flow fire alarm
- \* When the level of heat at a sprinkler reaches assigned temperature, the sprinkler fuses and water flows through the open orifice.

"I went grocery shopping and only bought what was on my list"... said no one ever!

## GISBORNE WINS SAFETY AWARDS

Gisborne was once again the recipient of the ICBA/WorkSafe BC award (4th time in past 6 years) for safety innovation for the design of a glove matrix that identifies the various types of gloves (12 different types listed with descriptions of appropriate applications) to be used on our construction projects to provide the best protection for our employees. The Vancouver Regional Construction Association also recognized this innovation at their recent 2016 awards banquet in Vancouver. Special thanks to Dennis Brode, Gisborne's Corporate Safety Manager for implementing this and other innovative safety initiatives to keep Gisborne at the forefront of providing a safe workplace for all our employees.



- What could go wrong?
- How bad could it be?
- Has anything changed?



- Am I physically and mentally ready?
- Do I clearly understand my task?
- Do I have the right tools and equipment?



- Make it Safe.
- Employ the correct procedure.
- Use the correct tools.
- **No shortcuts, period.**
- Reduce risk.



## BENEFIT INFORMATION

### CLAC MEMBERS

Benefit Office	1.888.600.2522
Forms/courses/contact info	<a href="http://www.clac.ca">www.clac.ca</a>
CLAC Retirement Member Care	1.800.210.0200
Confidential Counselling	1.866.714.3129
<b>CLAC OFFICES:</b>	
Lower Mainland Office	1.800.331.2522
Fort St John Office	1.800.331.2522
Prince George Office	1.800.331.2522
Kelowna Office	1.866.757.2522
Edmonton Office	1.877.863.5154

To check on coverages/annual limits call the CLAC Benefit Office at 1.888.600.2522

### GISBORNE STAFF / NON-UNION EMPLOYEES

Benefit Questions <sup>1</sup>	1.877.422.6487
RRSP Questions <sup>2</sup>	1.888.727.7766
Confidential Counselling	1.877.630.6701

### EMPLOYEES ON GISBORNE BENEFIT PLAN

Be sure to register for electronic access to your benefit plan for on line claims, forms and more. Go to:

<http://www.inalco.com/english/index.jsp> and click on the **Cyber Client** box in the upper left hand corner of the webpage to register.

<sup>1</sup> Industrial Alliance (extended health/dental coverages) now has an app for iPhone or Android. You can use the app to file your claim electronically, call up an electronic copy of your benefit card (for prescriptions or dentist claim) or track recent claims to see if they have been accepted.

<sup>2</sup> Download the Manulife GRS app to track your RSP plan.