



Cliff Street Temporary Boiler Plant

From Ground to Steam in 37 Days

Dear Lee Keeley,

This book is a THANK YOU for your personal involvement in an historic event.

The construction of the Cliff Temporary Boiler Plant was truly the “project of a lifetime”. The magnitude and complexity of the task at hand coupled with a very urgent timeline made this a unique undertaking in the National Capital construction industry. The people that dedicated themselves to meeting this challenge demonstrated efficiency, attention to detail, professionalism and most importantly, teamwork.

As you know there were constant logistical and technical complications facing the team of which nature and the cold Canadian climate posed the most significant daily challenges.

Each of the team members involved quickly understood the importance and urgency of the project. As a result, everyone concerned invested themselves fully, putting his or her personal life and family on hold to work around the clock.

There is an immense sense of pride and satisfaction that comes from recognizing what was accomplished in that short passage of time. To have done it all with only minimal disruptions to the daily operations of Government was indeed an extraordinary achievement. It is a testament to your dedication and hard work.

A “Thank you” is simply not enough. It was an honor to work alongside such a talented group of individuals. You gave yourself wholeheartedly to the task at hand and in return we offer our heartfelt gratitude, admiration, respect and appreciation.

Phase II - Cooling

Cliff Temporary Boiler Plant – Cooling Plant

All 52 buildings were now being heated at full capacity by the new Cliff Temporary Heating Plant. People unfamiliar with this industry can be forgiven for thinking that with the new boilers installed and the building constructed the crisis was over. In reality, there was still a long way to go. After all, the original plant was called the Cliff Heating and Cooling Plant for a reason, it also functioned to cool most of those buildings in the summer.

For heating purposes the saturated steam boilers are sufficient. As the heating system was the priority in October and the only immediately available boilers were the saturated steam boilers, these boilers were installed first.

The chillers in the Cliff Chiller Room are driven by steam turbines and require steam-producing boilers to operate. However these turbines needed superheated steam. In order to satisfy the cooling needs, additional superheated steam boilers had to be installed prior to the cooling season. Phase II begins...

Key Milestones

Wednesday February 3, 2010 - Day 1: Construction of Phase II Superheated Steam Boiler Plant starts.

Monday, February 22, 2010 – Day 20: Floor slab of Superheated Steam Boiler Plant addition is completed.

Thursday, February 25, 2010 – Day 24: Two out of three superheated steam boilers arrive and are installed overnight.

Saturday, March 13, 2010 – Day 39: Third Superheated Steam Boiler (#5) arrived and was installed overnight.

Wednesday, March 17, 2010 - Day 43: Erection of the steel frame for the building was started.

Friday, March 26, 2010 – Day 52: Steel frame completed.

Thursday, April 1, 2010 – Day 58: First Superheated Steam Boiler (#7) fired for the first time.

Wednesday, April 7, 2010 - Day 64: Second Superheated Steam Boiler (#6) fired for the first time.

Wednesday, April 21, 2010 – Day 78: Steam blow process started.

Saturday, April 24, 2010 – Day 81: Third Superheated Steam Boiler (#5) fired for the first time.

Monday, May 3, 2010 – Day 90: Steam blow process completed.

Tuesday, May 4, 2010 – Day 91: New Superheated Steam Boilers supply steam to the turbine driving Chiller # 2. Chilled water production commences.

Saturday, May 15, 2010 – Day 102: Phase II project is substantially completed.

Tuesday, June 15, 2010 – Day 133: Phase II project fully complete.



Day 79: The steam blow process from afar.



Day 80: The steam blow process from Portage perspective.