

# CEMENT PERFORMANCE REVIEW

QUARTER 2 2008

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## 2008 2ND QUARTER REVIEW

The second quarter has been extremely busy for **CPI** and the company has been delivering assignments for its clients in all four of its major product areas—these being process optimisation, projects, training and environmental improvement. You can read about many of these projects and courses in the following pages of this newsletter.

The company has been developing on the personnel side—at the start of the month of June Keely Morley joined the company as Operations Co-ordinator. She will be responsible for forward planning, development of operating procedures and co-ordinating team members. On the engineering side **CPI** has also gained some new associates. Murray Hislop (former Technical Director of Lafarge Cement UK) recently presented at the **CPI** Optimisation course at Gatwick, Chris Simms (former Senior Engineer at Lafarge Cement UK) is soon to present on a Process Engineers training course in Colombia and Arthur Harrison (former Chemist and Microscopy expert for CEMEX UK) has undertaken a

number of tasks such as presenting on the **CPI** Australia courses and a Microscopy training programme at Lagan Cement in Ireland.

**CPI** is also in the process of re-designing the company website to enable the users easier access to the information relating to the companies services and products. There will be a new area detailing the assignments that have been completed by **CPI**, along with a development of the on-line interactive services.

Finally, **CPI** is still developing its Technical Queries system and has set-up a number of new users on the system. If you would like more information about this service, which covers all of the disciplines involved in the manufacture of cement, please contact us on the mail address below or through the **CPI** website feedback form.



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## CEMENTOS ARGOS—COLUMBUS PROJECT

**CPI** is continuing to provide a technical support role for the Columbus Project of Cementos Argos. The new line will be 5000 tpd precalciner from FLS.

Whilst the plant is being built, **CPI** is performing the role of visiting European equipment suppliers as they reach critical points in the

production of the key parts of the machinery. One of the **CPI** mechanical engineers has visited MAAG in Poland, Flender in Germany and SIDENOR in Spain amongst others.

On each visit the Engineer was inspecting the manufacturing procedures and Quality

Assurance aspects of their operations, as well as the specific equipment that is to be supplied to the project.

**CPI** have also participated in a project risk analysis workshop and advised on the quality control procedures for the new line.

## YANBU CEMENT

As mentioned in previous newsletters, **CPI** has been working with the Yanbu Technical and Projects team for the installation of a new line at the Yanbu site.

The first phase of this work was a technical review of the tenders from a number of

equipment suppliers, which then led on to meetings with the suppliers to clarify the technical content of the offers.

Yanbu Cement subsequently chose their preferred supplier and then requested that **CPI** review the final technical

offer such that they were in a position to complete the technical and financial negotiations. This final review was a multi-disciplined review covering process engineering, process chemistry, quality control, mechanical and electrical engineering.

## BCSC ENVIRONMENTAL REVIEW

The Maldon plant of Blue Circle Southern Cement in Australia has commissioned **CPI** to undertake a review of their current environmental performance against both current emissions standards and potential

future requirements.

In performing the study **CPI** will use its experience of wet process kilns, worldwide environmental regulations and the latest best available technologies for

environmental protection.

The outcome of the study will assist the plant in making decisions about the existing equipment and its optimization, and potential capital investment in the future.

## ASHGROVE LEAMINGTON

During the second quarter, **CPI** associate Barry Smith visited the Ashgrove Leamington plant for a period of two weeks. This was the continuation from a previous visit to the plant and the particular areas of focus included:

- Review of the cooler operation and

recommendations for future modifications.

- Recommendations on the set-up of the burner pipe.
- Review of the calciner and front end burner fuel split.
- Control of NOx emissions.

- Recommendations relating to in-process quality control.

During the visit Barry worked with both the Engineering team and the kiln operators to assist in the optimization of the plant.

## CARBON RESOLUTIONS

**CPI** recently completed a study in partnership with Carbon Resolutions, a company focused on implementing Clean Development Mechanism (CDM) projects for the reduction of CO<sub>2</sub>.

The CDM programme has been developed by the United Nations to encourage companies to

invest in projects that will lead to an overall reduction in their CO<sub>2</sub> emissions. For the cement industry this includes items such as alternative fuels usage with biomass fuels, co-generation of power using the waste gases from the process, improving energy

efficiency by items such as variable speed drives on fans and installing more modern, efficient coolers.

**CPI** completed a data review for the plant under consideration and then followed up with a site visit to discuss potential projects with the plant management team.

## CEMEX UK BARGE LOADING

Just across the River Thames from the **CPI** offices, CEMEX UK are currently constructing a grinding plant which will produce type I and type III cements. As part of this project one of the requirements is to be able to dispatch cement

both by road and by barge onto the river Thames.

**CPI** associate and materials handling expert Ralph Knight is providing the detailed design arrangements for the barge loading system,

which will be an addition to existing silos on the site.

The whole assignment will be completed in a 4 week delivery period which will assist CEMEX to have the barge loading operating within the project deadline.

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## GLOBAL TRAINING

As mentioned in the previous newsletter, **CPI** has been extremely busy this year delivering different training courses around the world.

In the last quarter **CPI** has delivered the following courses:

- Two courses in Australia—a Cement Technology course and an Optimisation Course. Over the two weeks **CPI** trained close to 40 participants.
- Gatwick optimisation course with participants from the UK, USA, Macedonia, Nigeria and the Czech Republic. At the end of the course the participants also visited London to see Buckingham Palace, and took a bus tour of London followed by a course dinner in a traditional English restaurant.
- A training module for Forjas Bolvar in Colombia focusing on the design of chaining systems, with on-going technical support through the **CPI** technical queries

- An extensive training programme at Giant Cement in the USA for kiln operators, with participants also coming from Dragon and Keystone Cement Plants. The programme last two weeks long with all operators passing through a basic cement technology course, followed by one of the trainers staying on site for two weeks assisting in the implementation of the training.

And the trend for training in 2008 seems to be continuing, with a major training programme planned for Essroc in the USA, a series of training modules for Buzzi in the USA, operator training modules for Castle Cement in the UK and a Cement Technology Course for Executives in Greece.

If you wish to find out more about the different forms of training that **CPI** can offer you please visit the **CPI** website or contact us on the email address on the front of this newsletter.



## YOUR COMMENTS

As ever, we would like to have your feedback—especially on what you would like to see in this newsletter. As we are developing the website at the moment not would be a good time to send us your views on what new items you would like to see on the site in the future. Contact us via the mail address on page 1.