

Pebble Lime Systems

Computerized operator training



Metso would like to share our operating expertise with your operators and other plant personnel. The best way we have found to accomplish this task is by incorporating it in a training application. We believe that an committed and well-trained workforce is vital to any plant's objectives regarding: safety, environmental, smooth operation, or financial issues.

We are focused and willing to invest in developing and training people utilizing our equipment. It is beneficial to have equipment that is well-maintained and functioning properly at any plant, which enhances our product and generates profit for your company. This training model provides users with an added confidence, prepares them for situations, and the potential for growth.

Operator training specifications

Goal

The goal is to simply give operators a computer based system that can inform them and give them examples of situations that may exist while operating a lime plant. The training will give them criteria to identify and solve problems. With this training plants may avoid damaged equipment or loss of production and other cumbersome delays.

Time Commitment

The training is broken up into 5 parts. Time to complete the training may vary depending upon the operator's ability and interest. The entire training is estimated for a total of 8 hours. The PowerPoint presentations will take 4-6 hours and 2-4 hours for the test simulator.

Materials

PC Training Notebook and Training booklet.

Language

Currently only English is available.

Target

Anyone who wants to understand the history/ equipment / process equipment of lime calcining.

How

Metso has loaded all the necessary software and training information onto a single laptop. It is our intent to send this notebook to your site. You may keep the notebook as long as you desire. Metso will charge this as a "time at your site" basis. This will allow you to schedule personnel around the clock to use the trainer, which allows flexibility for nighttime workers.

With this 5 part system, part or all of the training can be executed. It is a good idea to have yearly refresher courses.

Detailed concepts covered

Part 1

- Limestone
- Formation
- Mining
- Uses
- Calcining
- Types of Calciners
- Rotary Kilns with Preheaters
- Parts
- General Philosophy
- Control Systems
- Loops

Part 2

- Operating the Kiln
- Lab Results
- Potential Operating Problems – 17 Situations
- Temperature Profile

Part 3

- Preparing For Simulation
- Understanding – Stone, Fuel, Air as variables
- 8 - Situations

Part 4

- Operators Words of Wisdom
- Review

Part 5

- Total Kiln Simulation
- This is were the operator can make adjustments to a running plant and witness the outcome at 10 times the rate of a normal plant. This means that an operator can see what may be happening after his / her shift. The simulator is modeled after a direct coal fired pre heater lime kiln.