



COSMA KILN QUESTIONNAIRE

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Company Name:

Works:

Kiln Number:

Completed by:

Position:

Tel:Fax:

Email:

INTRODUCTION:

This questionnaire has been designed to allow an assessment of potential benefits that can arise from the installation of a COSMA Continuous On-Stream Mineral Analyser to control cement kiln operation. Please base the information on the last few months of operation. All information is strictly confidential.

Feed and Raw Meal

How is the feed chemistry controlled? Is it by a cross belt analyser or raw meal lab assay?

If lab assays, what is the frequency of sampling?.....

What is the time between taking a sample and reporting results?.....

How often are changes made to the feed proportioning system?.....

What is the feed C3S target.....average C3S over 1 month

Standard deviation in C3S over 1 month.....

All information is strictly confidential.

Feed and Raw Meal (cont)

Are you happy with the standard deviation of variability in raw materials?.....

If not, please comments on likely areas for improvement.....

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FUELS

Please list all fuels in use

Fuel	Normal Firing Proportion(%)
Coal	
Pet Coke	
Oil	
Gas	
Waste/Recycle	
Other	

Any other relevant information on fuels that may contribute to improved kiln performance

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Has the use of alternate fuels altered cement clinker chemistry and/or clinker quality?

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All information is strictly confidential.

Kiln and Clinker

What is the kiln configuration? e.g. 4 stage pre-heater, cold fired, grate cooler

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Rated Kiln Output:.....Actual kiln output:.....

If actual output is below rated output, indicate reasons for this

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Is kiln control manual or automatic.....

Do think the automatic system is an improvement over manual operation and why?

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What is the clinker C₃S target..... average over 1 month

Standard deviation over 1 month.....

Are you happy with the standard deviation of variability in clinker?.....

If not, please comments on likely areas for improvement.....

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What is the frelime assay method i.e. XRD, density, titration,.....

What is the frequency of sampling?.....

What is the time between taking a sample and reporting results?.....

What is the frelime target

What is the average frelime over 1 month

Frelime standard deviation over 1 month

All information is strictly confidential.



Kiln and Clinker (cont)

Are you happy with the freetime variability or standard deviation?.....

If not, please comments on likely areas for improvement.....

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Are reducing conditions present in the kiln?

Kiln stability

Are you happy with the kiln stability? If not, what are the areas for improvement believed to be?

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Operational difficulties

Please describe any other operational difficulties that may impact on kiln operation and provide areas for potential improvement

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Please e-mail completed questionnaire to mark.wellington@fctinternational.com
Or fax: Mark Wellington +61 8 8352 9988

All information is strictly confidential.