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Caspeo

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The Process Engineer's Toolbox

Process design

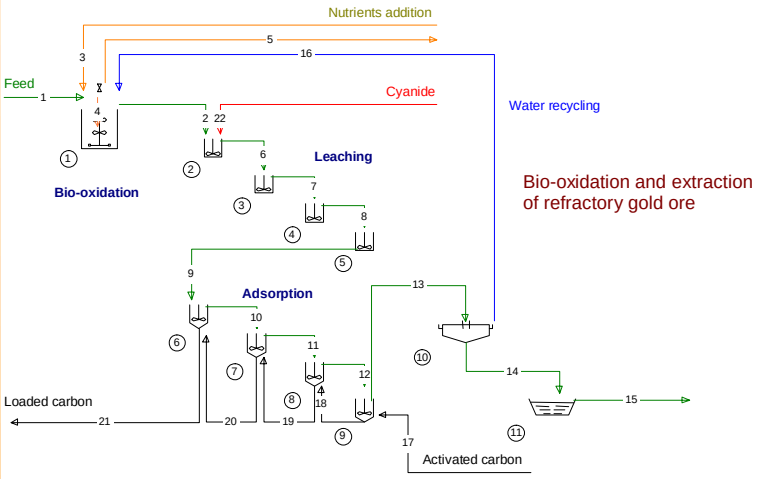
Define the main treatment stages to reach a given objective

Determine the forecasted material balance: each stream description

Size the main equipment and define the settings

Estimate the investment and operating costs

Contribute to the technical and economical feasibility studies



Process optimization

Increase the process capacity

Improve the final product quality

Consumption reduction: energy, water, reagents

Evaluate and limit environmental impact

Adapt the process to the raw material variability

Increase reactivity, facing up to the market variations

Process monitoring

Control performance

Plant surveys

Mineral industry for all types of minerals and ores

Iron, base metals, sulfide and oxidized ores

Precious metals, Diamonds

Phosphate, potash

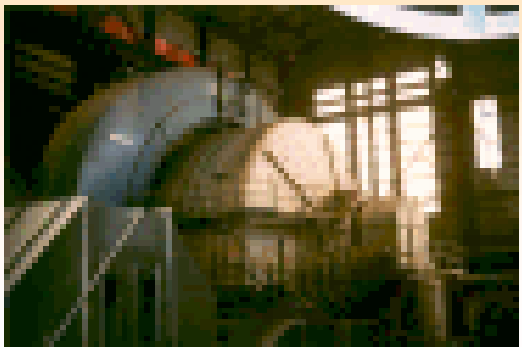
Industrial minerals (kaolin, feldspar, carbonate, talc…)

Building materials: aggregates, cement, plaster

Uranium, coal

Other industries

Industrial and urban waste management



OZMET – PO Box 31, West Perth, WA 6872, Australia

+61 (08) 9226 4990 +61 (08) 9463 6091 alan.bax@ozmet.com.au

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A user-friendly interface focused on process engineers' tools

The flowsheet is easily drawn using a set of unit operation icons.

A click on a stream gives access to:

- The material flowrate, size distribution and composition;
- The size distribution and washability curve.

A click on a unit operation gives access to:

- The unit size and settings, the mathematical model parameters;
- The partition curve and the split curve.

Tables permit display of global plant performances.

A library of unit operation mathematical models

Crushing, grinding, attrition, fine grinding; Size classification, gravity and magnetic separation, flotation;

Solid-liquid separation: settling, thickening, filtration ;

Hydrometallurgy : leaching, CIP, CIL, precipitation, solvent extraction, electrowinning

Powerful algorithms and methodologies for:

Process simulation;

Equipment sizing;

Equipment setting optimization;

Capital cost estimation;

Sensitivity analysis to evaluate process flexibility.

Better knowledge of the process

Reduction of pilot and industrial tests

Identification of bottlenecks

Fast evaluation of alternative configurations

Evaluation and use of the process flexibility

Increased recovery

Consumption reduction: reagents, energy, water

Productivity increase

Cost reduction

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