



Simplifying complex aggregation processes to create fit for purpose Run-of-Mine reserves

A Deswik.CAD module, Deswik.Agg applies rules-based scenarios for the generation of aggregated reserves. Able to handle solids or grids, the aggregation results reflect what actually happens at a material interface, allowing more accurate modeling of Run of Mine material flows.

With this wizard-based tool, scenarios can examine the effects of aggregation rules based on material types, thicknesses or specified quality restrictions. Moisture basis conversions, loss and dilution assumptions and equipment allocations can all be incorporated into any scenario. Using powerful pivot-style reports and a unique stratigraphic visual comparison, scenarios can be rapidly analyzed and compared against each other for selection of a final case.

Harnessing the power of Deswik.CAD, final aggregated solids or grids can be generated suitable for downstream mine planning processes such as margin ranking, production scheduling and landform modeling.

PRACTICAL FUNCTIONALITY

- » Inclusive tools work with grids or solids to create mineable working sections at the block or deposit level.
- » Auditable, rule-based approach delivers the flexibility to tailor aggregation settings to any deposit.

RULES-BASED APPROACH

- » Set rules for thickness, material type or quality and apply different loss and dilution factors (e.g. roof, floor or edge).
- » Ensure mined horizons satisfy constraints by incorporating pre and post requisite testing.

INVESTIGATE OPTIONS

- » Manage and run multiple rule sets simultaneously for rapid scenario generation and comparison.
- » Assess effect of equipment selection by defining multiple equipment types with different loss and dilution parameters.

INTERACTIVE RESULTS

- » Transparent pivot-style reporting interface highlights factors influencing aggregated ROM tonnages between scenarios.
- » Graphical side-by-side comparison shows the physical impact of different aggregation constraints.

FIT FOR PURPOSE OUTPUTS

- » Generates final mined working section grids or solids with all calculated aggregation values.
- » Auditable outputs are suitable for downstream planning processes such as margin ranking and production or dump scheduling.