

Flownex® SE determines pressure drop [flow] and heat transfer [temperature] for the connected components of a complete system in steady state and transient, e.g. pumps or compressors, pipes, valves, tanks and heat exchangers.

TYPICAL USES:

ANALYSIS

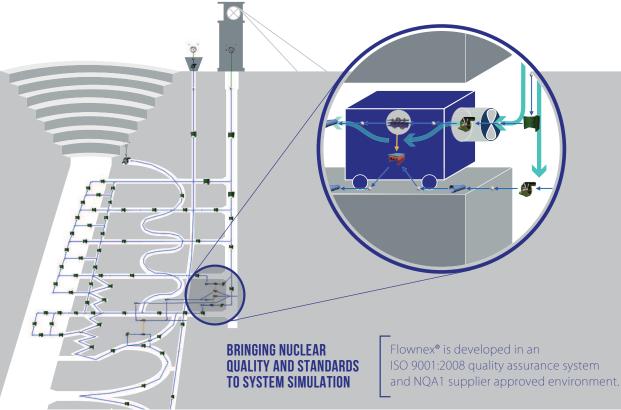
- Simulation.
- Performance assessment.
- Modification assessment.
- Fault root cause assessment.

DESIGN

- System sizing.
- Component sizing.
- Determining operating ranges.
- Flow, temperature, pressure, power consumption, etc.
- Testing of control philosophy.

TRAINING

- System behavior examination
- Performing basic flow and heat transfer calculations.
- Thermo hydraulic principles and properties referencing.





www.padtinc.com/flownex productinfo@padtinc.com

Find us on:

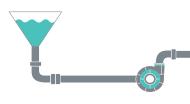






BACKFILL & TAILINGS SLURRY

- Pump and pipe sizing
- Blockage avoidance



REFRIGERATION & HEATING SYSTEM SIMULATION

- Heat load calculations
- Heat exchanger sizing
- Energy optimization
- Vapour compression cycle simulation
- Environment Cooling Tower Plant Matching

Jean Greyling @ AngloGold Ashanti wins an ETA (Energy Efficiency) award using Flownex®

WATER HANDLING SYSTEM SIMULATION

Pump, water turbine and pipe sizing

Water hammer analysis and prevention

Water reticulation system design

Flow balancing

Pipe heat transfer

Flownex® gave new meaning to complex systems fluid flow analyses in our company.

Chris Coetzee MBA, Pr.Eng. Managing Director Resonant RSA



VIILATION

Fan sizing.

Flow distribution and balancing.

- Overall integration with cooling or heating system.

- Contaminant tracking.

- Ventilation temperature increase with depth (auto compression).

Psychrometric calculations (moist air).

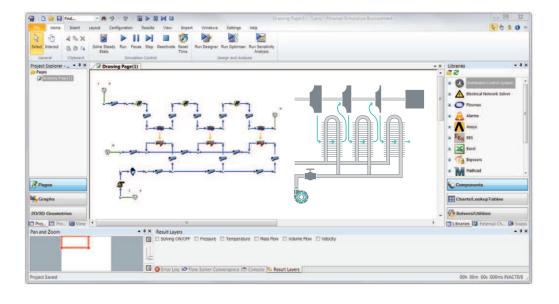
COMPRESSED AIR SIMULATION

Reticulation system design and pipe sizing.

Compressor selection.

- Energy optimization.

Heat exchanger sizing (inter- and after coolers).



FLOWNEX® LICENSE HOLDERS







