

# Nuclear HVAC Capabilities



## Nuclear HVAC Maintenance at Koeberg Nuclear Power Station (15 years)

## Engineering, Construction and Management of HVAC Projects (Power Plants - Nuclear, Industrial and Conventional) (12 years)

### Compile detail design documents

- Cooling and Heating Load Calculation and Analysis
- Ducting and Air Diffusion Design
- Smoke Extraction Systems
- Pressurization Systems
- Negative Pressure Rooms
- Nuclear Ventilation, Filtration and Air Conditioning (Nuclear Power Generation and Isotope Production Facilities)
- Installation and procurement specification
- Perform **process flow analysis** and **pipng stress analysis**
- Develop 3D model of the system and generate installation drawings

## Engineering, Construction and Management of HVAC installations

### Prominent Completed Projects:

- Pebble Bed Modular Reactor Advanced Fuel Fabrication Facility – EPC
- EPR Finland, France and China – Design work
- Nuclear Technology Products at NECSA for the Isotope Production Facility  
Initial Assessment and Feasibility Study  
Detailed Design: HVAC, Electrical & (Control & Instrumentation) C&I
- DENEL Various projects in the explosives manufacturing process – EPC

### Main Codes and Standards:

- SANS (South African National Standards) also known as SABS
- BS (British Standard)

### Alternative Codes and Standards:

- ISO standards
- SMACNA
- ASME
- EMC/EMI/IEC
- EN
- ASHRAE
- ANSI
- DIN
- KTA
- NFPA
- IAEA



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