inprocess

simulation
knowledge
profit

DSS Dynamic Simulation Studies

Base your design decisions on rigorous engineering calculation results

Benefits

• Save in Capex thanks to more accurate designs
• Detect mistakes before procurement
• Reduce total project schedule
• Take ownership of the rigorous dynamic model ("digital plant") by following an Inprocess' Knowledge Transfer Program

Functionalities

• Check the design size of critical equipment
• Determine adequate protection systems
• Validate proposed control strategies and philosophies
• Design and test operational procedures
• Determine the operational envelop and check the safety limits and select piping material
• Use the digital plant as a process intelligence repository

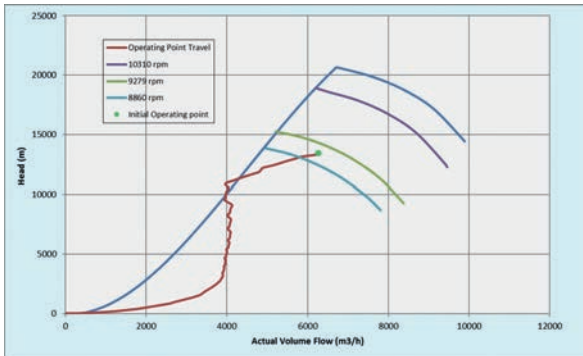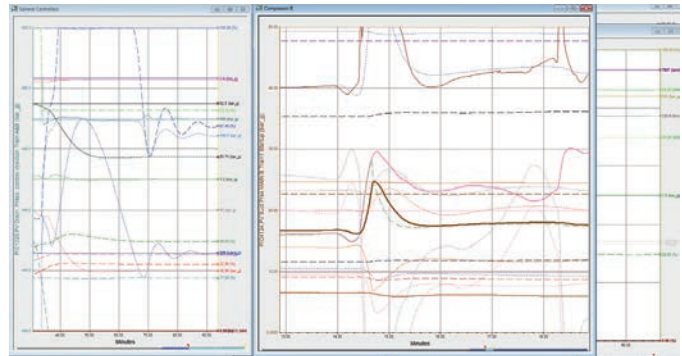| DSS Dynamic Simulation Studies	Early OTS	DCS check out	OTS Operator Training Simulator	Startup support	O&M Operations & Maintenance support
Basic Engineering (FEED) and Detailed Engineering (EPC)				Commissioning & Startup	Operations & Maintenance

DSS Dynamic Simulation Studies

Visualize the impact of transient behaviours in your designed plant
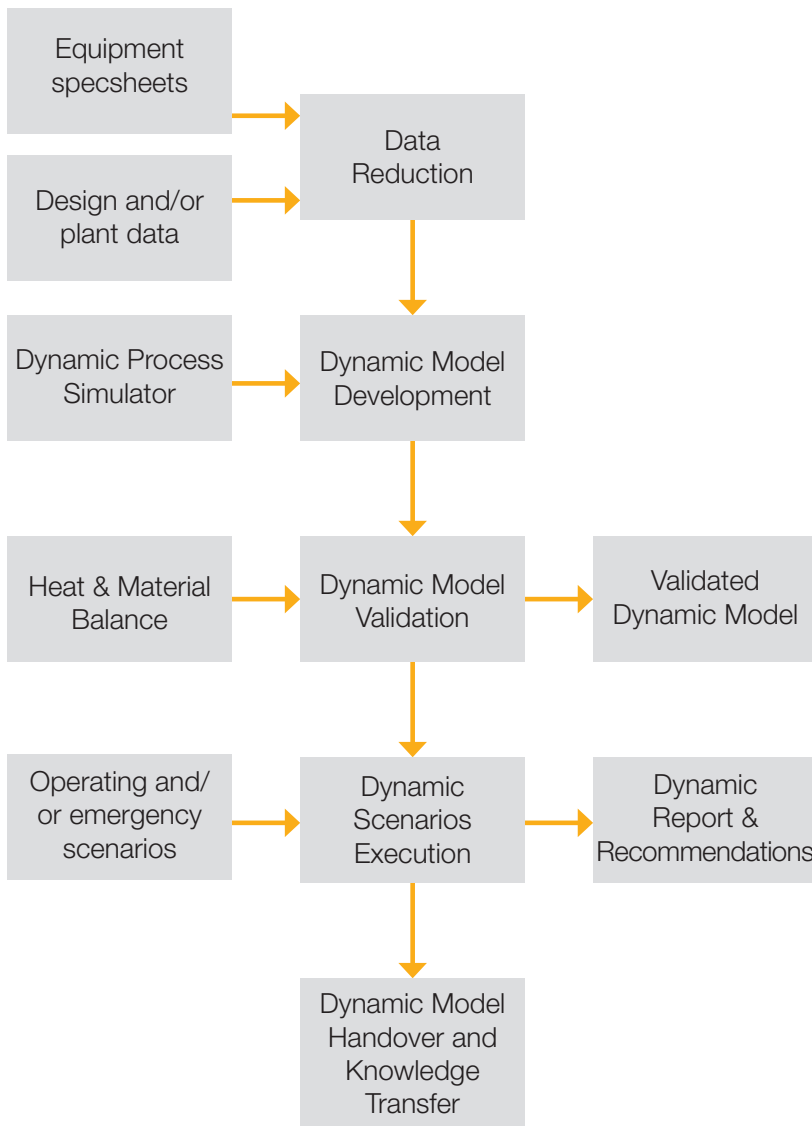

Path of the operating point of a compressor during an emergency shutdown

Trends of process variables in a dynamic simulation run

Workflow Dynamic Simulation Studies

Equipment specsheets

Design and/or plant data

→ Data Reduction

Dynamic Process Simulator → Dynamic Model Development

Heat & Material Balance → Dynamic Model Validation → Validated Dynamic Model

Operating and/or emergency scenarios → Dynamic Scenarios Execution → Dynamic Report & Recommendations

Dynamic Model Handover and Knowledge Transfer

Follow-up projects
- Operator Training Simulator
- Support to plant start-up
- Support to Operations & Maintenance

Case studies

Scan this code to see our latest case studies list