

POWER PLANT SIMULATORS

High-fidelity Power Plant Simulators for Safe Operations Today and Tomorrow



Full Scope Simulators



Severe Accident Simulation



Simulator Modifications



Part-task and Classroom Simulators



Engineering Simulators



Learning Modules



System Knowledge Modules



Learning Simulators

When you're looking for improving your power plant's performance and reliability, you'll want the right simulation experience to get you there. One company has the dedication to produce true-to-life power plant simulators that ensure that your personnel have the knowledge required to safely and efficiently operate your power plant.

For more than 40 years, L3 MAPPS has worked with leading utilities, plant designers and research organizations to create superior training and engineering systems and has established itself as the world's pre-eminent manufacturer of power plant simulators. L3 MAPPS is a company of people with ideas and vision, with a desire to create value through innovation and with the experience to achieve success.

DOING IT RIGHT

Providing more than just training devices, L3 MAPPS' simulator solutions - powered by the unparalleled Orchid® suite of simulation products - will elevate your operation and engineering teams to new heights in addressing plant design issues, procedural deficiencies and reliability improvements. L3 MAPPS simulators provide superior real-world power plant training. L3 MAPPS offers a variety of products and services, including full scope simulators, classroom simulators, Learning Simulators, engineering simulators, part-task trainers, severe accident simulation, simulator retrofits and upgrades, and more. L3 MAPPS provides design to completion turnkey systems, specific components, and simulator design tools as required by the customer. The company's simulators offer the highest quality in modeling fidelity and training to provide trainees and instructors with user-friendly tools for learning, operating and mastering complex power plant systems.

The superior training environments of L3 MAPPS simulators provide clear advantages for obtaining operator licenses/certification, optimizing plant operating procedures and reducing costs. Operators trained on L3 MAPPS simulator environments acquire the skills necessary to increase plant performance, minimize downtime, and provide confident emergency response. Real-time responses to operator actions

and interactive instructor controls ensure maximum training effectiveness and adaptability.

Simulator uses include interactive team training, severe incident management, plant design testing, and start-up/shutdown optimization. Any scenario, no matter how complex or dangerous in a real plant, can be reproduced, monitored and varied in real time, providing a highly valuable tool for training, plant engineering and emergency response.

USES AND ADVANTAGES

Cost-effective training for:

- Experienced operators and new recruits
- Overall plant and individual system operation and control
- Improved team interaction and performance
- Emergency plan implementation and incident management
- Command of malfunction and transient situations
- I&C familiarization

More benefits:

- Operations optimization, including start-up and shutdown
- Fewer unplanned outages
- Improved plant safety
- Analysis of plant response to equipment and/or instrument failure
- Efficient plant design planning and upgrading
- DCS and plant process computer verification and validation
- Ease of simulator upgrade and ability to keep current with plant
- Multiple configurations on one simulator
- Portability of simulation for classroom training

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powered by

Orchid®

Total Development &
Simulation Environment



L3 MAPPS entered the power plant simulation business in 1973. Today, L3 MAPPS is the world's foremost supplier of high-end full scale simulators for nuclear power plants of most manufacturers, as well as simulation solutions for coal, oil, and gas fired power plants. L3 MAPPS' Power Systems and Simulation business received the Frost & Sullivan Global Excellence in Customer Value award for its customer-centric approach, technological superiority and value-added service in delivering best-in-class nuclear power plant simulators. Following is a sample of our customers globally.



ARGENTINA

Embalse



Belgium

Tihange 1



BRAZIL

Angra 1
Angra 2



CANADA

Bruce A
Bruce B
Candu Energy
Darlington
Gentilly-2
Pickering A
Pickering B
Point Lepreau



CHINA

CAP1400 Engineering Design
Analyzer Support
Daya Bay
Hongyanhe Phase I Units 1, 2
Hongyanhe Phase I Units 3, 4
Ling Ao
Ling Ao Phase II
Qinshan Phase III



FINLAND

Olkiluoto 3



FRANCE

AREVA NP
Institut de Radioprotection
et de Sûreté Nucléaire
Institut National des Sciences
& Techniques Nucléaires



GERMANY

AREVA NP
Brunsbüttel
Isar
Leipzig
Philippsburg
Stade



GREAT BRITAIN

Dungeness B
EDF Energy Campus
Hartlepool
Heysham 1
Hinkley Point B
RWE npower
Sizewell B



IRELAND

Moneypoint
Poolbeg



JAPAN

Westinghouse



KOREA

Pyeongtaek
Wolsong 1
Wolsong 2



Mexico

Laguna Verde



QATAR

Ras Abu Fontas B



ROMANIA

Cernavoda



SAUDI ARABIA

Qurayyah



SLOVENIA

Brestanica
Krško



SOUTH AFRICA

Koeberg



SWEDEN

Forsmark 1
Forsmark 3
Oskarshamn 1
Oskarshamn 2
Oskarshamn 3
Ringhals 2



SWITZERLAND

ALSTOM (Switzerland) Ltd.
Beznau



USA

ANO-1
Brunswick
Callaway
Center for Advanced Engineering
and Research
Clinton
Crystal River 3
Davis-Besse
Diablo Canyon
Enrico Fermi 2
Fort Calhoun
Idaho National Laboratory
McGuire
Oconee
Pilgrim
Prairie Island
Rancho Seco
San Onofre 1
San Onofre 2/3
St. Lucie 1
St. Lucie 2
South Texas Project
Susquehanna 1
Three Mile Island 1
Turkey Point
Waterford 3
Westinghouse
Wolf Creek

L3 MAPPS also supplies its simulation solutions for Engineering Simulators.



MAPPS

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