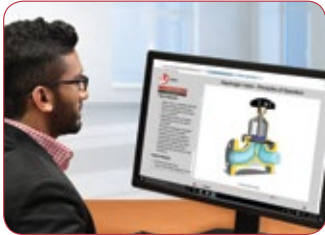


HIGH REALISM SIMULATION & TRAINING

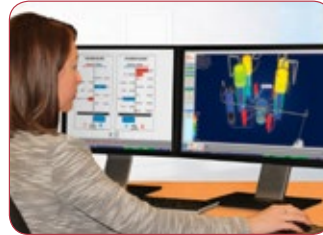
Complete Power Plant Simulations and Training for Better Training, Nuclear Personnel Development and Plant Engineering Support



Learning Modules



System Knowledge Modules



Learning Simulators



Part-task and Classroom Simulators



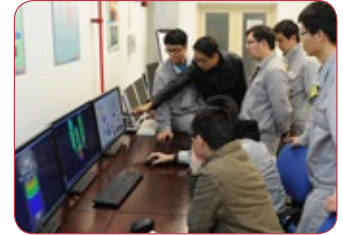
Engineering Simulators



Full Scope Operator Training Simulators



Simulator Upgrades



Severe Accident Simulation

For more than 45 years, L3 MAPPS has worked with leading utilities, plant designers and research organizations to create superior operator training simulators and simulators to assist and de-risk plant builds, and has established itself as the world's pre-eminent manufacturer of high-realism power plant simulators, which are powered by the L3 MAPPS' second-to-none Orchid® simulation environment. In addition, L3 MAPPS' 2D and 3D interactive early learning technologies are sure to increase your students' understanding and retention of power plant fundamentals.

L3 MAPPS has deployed the world's highest fidelity simulators for HWR, GCR, BWR and PWR nuclear plants. Our simulators are also used to support operator training at coal, oil & gas, GT and CCGT plants.

L3 MAPPS has vast experience in supporting New Build projects with its simulation solutions—resulting in significant error reduction in plant designs.

With L3 MAPPS learning technologies (Learning Modules, System Knowledge Modules and Learning Simulators), we capitalize on the use of interactive visualization to further the objectives of power plant training programs by adding another tool in the arsenal to improve or augment the learning experience with a higher degree of efficiency, retention and accessibility.

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.

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



powered by

Orchid®

Total Development &
Simulation Environment

HIGH REALISM SIMULATION & TRAINING

Complete Power Plant Simulations and Training for Better Training, Nuclear Personnel Development and Plant Engineering Support



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 is known for its customer-centric approach, technological superiority and value-added service in delivering best-in-class 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
Darlington
Gentilly-2
IMSR Advanced Reactor
Pickering A
Pickering B
Point Lepreau
SNC-Lavalin



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
Wolsong 3



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
Leibstadt



UNITED ARAB EMIRATES

Barakah



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



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