

Nuclear Power Products and Services

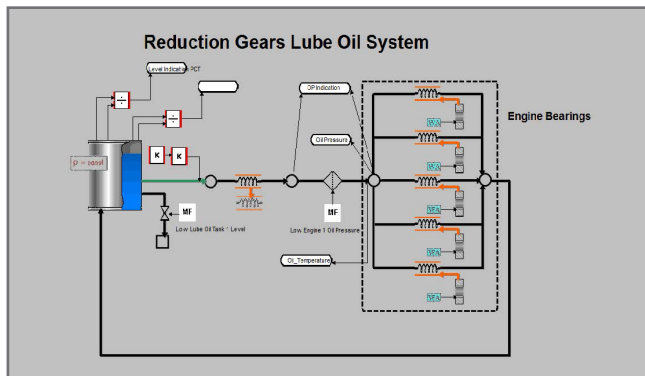


### Marine Applications

The 3KEYMASTER™ simulation environment, developed by Curtiss-Wright's Simulation Group\*, has proven to be a versatile simulation tool not only for power and process plant simulation but also for marine propulsion systems modeling. 3KEYMASTER™ has been used in the development of various Ship Training simulators powered by Diesel, Gas Turbine or Steam Turbine Propulsion.

### How Can 3KEYMASTER™ Enable the User?

Cost and complexity of the process being modeled have been barriers to the adoption of simulation in marine engineering. 3KEYMASTER™ changes that. Built ground-up, using true object-oriented technology with an open architecture, the software provides a fast effective modeling platform for marine systems. The software has been used not only to create training simulators but also as an embedded environment to support the design and testing of marine flow, electrical, and control systems.



Engine Room Simulation Drawing

### 3KEYMASTER™ Advantages

- Ease of use—fully graphical approach, no programming knowledge required. This allows for engineers with no programming experience to develop simulation models of marine components and systems.
- Fast, efficient, and robust environment for cost-effective model construction, test, and engineering
- Comprehensive, accurate, high-fidelity modeling of systems. Knowledge of physical principles and equation solution methods are embedded in the modeling tools.
- Simulation, Logic, Relay, Single-Line Diagrams can look exactly like the customer data. This allows for easy debugging of systems and faster understanding of the modeled configurations.
- Multi-user parallel development on projects
- Ease of multithreading or parallel processing of simulation tasks
- Extendable—easy to add new modeling objects and code, or port custom code, to provide complete simulation of complex systems

\*: WSC, a legacy brand of Curtiss-Wright's Simulation Group, headquartered in Frederick, MD, is a global simulation and services company. Acquired by Curtiss-Wright in 2024, WSC is recognized for the quality and efficiency of their products and flexible team-oriented approach to serving its customers.

