

# GNP SYSTEM Co., Ltd

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Address	41, Techno 10-ro, Yuseong-gu, Daejeon		
major business	Development of Simulator for operator training. Engineering of Nuclear Power Plant		

GNP SYSTEM is developing full scope simulators of all type nuclear power plant in Korea, that are WESTINGHOUSE, FRAMATOME, KSNP, KSNP+, APR1400, for 23 years. GNP SYSTEM is only one company in Korea that has a capability of the Key-Technology of the nuclear power plant simulator that develop Core(NESTLE) and Thermal-Hydraulic(RELAP) model by ourselves.

## Products



Nuclear Power Plant Simulator for Operator Training

**Description** Nuclear Power Plant Simulator is to develop whole system, which are CORE, Thermal-Hydraulic, BOP(Balance Of Plant) and PPC(Plant Process Computer) system and Instructor Station, of the nuclear power plants for operator training. We, GNP SYSTEM, carrying out “Performance Test of the simulator” based on ANSI-3.5, 2009 that are Steady State Operation, Malfunction, Transient, Abnormal and Emergency Operation after the simulator development by ourselves

**Detail works are as shown below**

- Development of Primary and Secondary System of the nuclear power plant
- Development of Electrical System of the nuclear power plant
- Development of MMIS(Man Machine Interface System) for ESCM(ESF-CCS Soft Control Module), RCOPS(Reactor Core Protection System), QIAS-P(Qualified Indication and Alarm System) and QIAS-N(Qualified Indication and Alarm System-Non Safety)
- Emulation of MARK-VI turbine control system
- Development Instructor Station of the simulator

## Technical Capacity

» **Development of Core and Thermal-Hydraulic Model by ourselves**

GNP SYSTEM has a capability of the Key-Technology of the nuclear power plant simulator that develop Core(NESTLE) and Thermal-Hydraulic(RELAP) model

» **Exclusive MMI Tool for Simulator**

To meet various object realizations when develop the simulator, GNP SYSTEM developed Lucid-Studio that is an exclusive MMI Tool for the simulator