



SIEMPELKAMP

NIS Ingenieurgesellschaft

Intelligent engineering
for future generations.

REFUELING MACHINES

Refueling machines serve to remove and replace nuclear fuels in the reactor safely and precisely. They are either operated manually or semi-automatically on the machine itself, or remotely from a control room. Handling of fuels is effected with grippers, cranes and telescopic masts. Precise engineering and fabrication is essential, as the refueling machine works in highly radioactive areas, under water (to provide shielding) and often in confined spaces.

**SAFE
EFFICIENT
RELIABLE**



SCOPE

We support operators of nuclear power plants with our services to ensure safe and reliable operation of their refueling machine. This includes:

- Feasibility studies
- Planning, design and engineering
- Licensing support
- Manufacturing
- Installation and commissioning
- Support during outage and fuel change
- Maintenance and repair
- Refurbishment and modernization
- Operator training

Components of refueling machines by Siempelkamp NIS include:

- Bridge
- Trolley
- Main hoist
- Mast system
- Camera system (underwater)
- Media supply
- Instrumentation and control engineering
- Software (incl. PLC)
- Spare parts



Refueling machine at Biblis NPP, Germany

REFERENCES

Our reference projects in supplies and services for refueling machines include:

- NPP Isar, Germany
- NPP Philippsburg, Germany
- NPP Biblis, Germany
- NPP Mühleberg, Switzerland
- NPP Gösgen, Switzerland
- NPP Borssele, Netherlands



Refueling machine at
Borssele NPP, Netherlands

**ANY QUESTIONS?
WE HAVE THE ANSWERS!**

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