Trial assembly of an accessible Cassette insulation unit for a steam generator

Insulated Cassette insulation of a main coolant pump

Depending on the type of reactor power plant, replacement of existing conventional insulation with KAEFER’s cassette insulation

Nuclear power plants that use KAEFER’s insulation technologies are located in the following countries:

- Belgium
- Brazil
- China
- Finland
- France
- Germany
- Netherlands
- Sweden
- Switzerland
- Ukraine
- USA

KAEFER locations worldwide

The diagram shows the average accumulated development of the costs of the 3 KAEFER insulation systems in comparison to conventional insulation based on a lifetime of 60 years for nuclear power plants.

Without consideration of the saved outage time (1 to 5 days) that are realised, the investment in Mattress / Blanket insulation and Cassette insulation will have already amortised after 6 years.

Insulation Systems for Nuclear Power Plants

The image shows the average accumulated development of the costs of the 3 KAEFER insulation systems in comparison to conventional insulation based on a lifetime of 60 years for nuclear power plants.

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Insulation Systems for Nuclear Power Plants
KAEFER's cassette insulation meet the special requirements of the nuclear power industry. In addition, they offer the user numerous advantages:

- Reusable
- Easy and safe handling
- Reduced outage time
- Reduced radiation exposure for staff
- No dust and fiber emissions
- No waste disposal
- Tested for compliance with all relevant regulations on nuclear engineering
- Tested under LOCA conditions

Design

Each cassette is specially designed to accommodate the component to be insulated, taking into consideration accessibility, handling and material safety.

The insulation documentation manual contains all information on the number and place of each cassette, thus greatly facilitating easy insulation removal and reassembly during plant outage.

Performance

Reliable design – the basis for perfect craftsmanship. Our experience is your guarantee for safety, down to the smallest detail:

- Safe handling
- No sharp material edges
- All welds are worked over
- Self-locking robust fasteners
- Adjustable joint sections

Quality assurance

- Risk analysis
- HSE documents
- General arrangements (as displayed)
- Installation instructions