

TUBES FOR PASSIVE RESIDUAL HEAT REMOVAL SYSTEMS (PRHR)

High-quality flat-bottom bent tubes for AP1000 reactor PRHR.

Challenge

The Westinghouse AP1000 plant features an automatic system for the natural evacuation of residual heat inside the reactor building, in the event of an accident.

The heat exchanger is connected to the primary circuit via an inlet line connected to one of the hot branches and a discharge line connected to the "cold" part of the corresponding steam generator water box.

Solution

Our tubes are made from alloy 690, which has a high chromium and nickel content and excellent resistance to corrosion and high-temperature atmospheres. It is characterized by high strength and good manufacturing characteristics.

In addition to its corrosion resistance, alloy 690 offers high mechanical strength and excellent metallurgical stability.



Technical information

These tubes for PRHR are distinguished by their optimal size:

- \varnothing ext. 19.05mm x 1.65mm of thickness
- Length from 8.8mm to 15.2mm
- Large flat-bottomed bending

Customer benefits

- Processes are under control
- Safety
- Quality
- A unique manufacturing route
- Performance

Key figures

18 units have been supplied to China and the United States.

Framatome Montbard is the only qualified supplier for this heat exchanger.

**Your performance
is our everyday commitment**

Contact : sales-fuel@framatome.com

www.framatome.com

The data and information contained herein are provided solely for illustration and informational purposes and create no legal obligations by Framatome. None of the information or data is intended by Framatome Inc. to be a representation or a warranty of any kind, expressed or implied, and Framatome Inc. assumes no liability for the use of or reliance on any information or data disclosed in this document. © 2024 Framatome. All rights reserved.