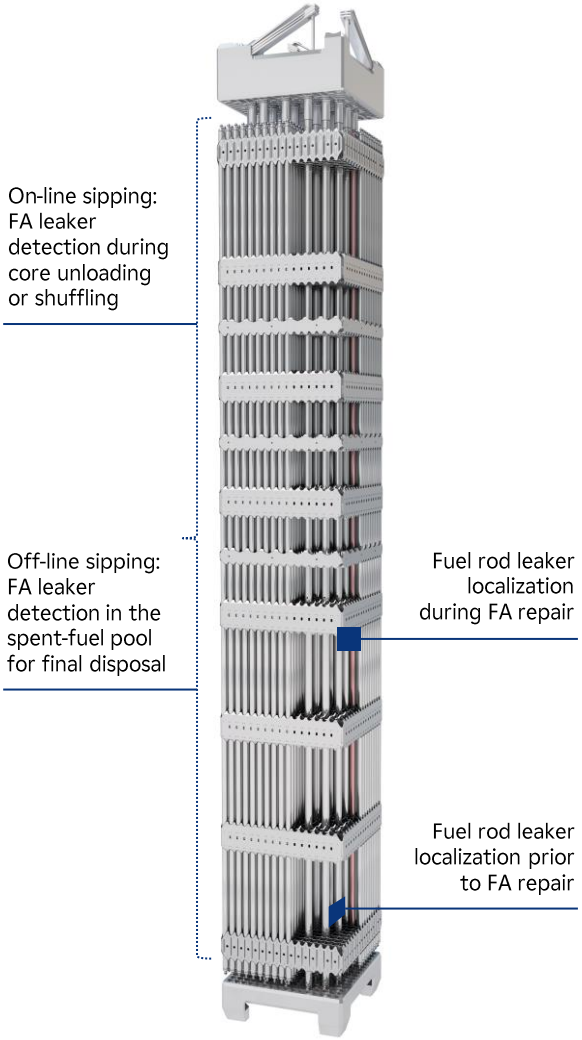
framatome

LEAKER DETECTION - FOR SAFE PLANT OPERATION

Innovative Fuel Field Services solutions, proven in practice

Framatome's Fuel Assembly (FA) and Fuel Rod (FR) leaker detection and localization technologies, applicable to LWR fuel assemblies, meet nuclear power plant requirements in a safe and sustainable manner.



Challenge

The release of gaseous fission products from leaking fuel into the reactor coolant system is the primary indicator of defective fuel operation within the reactor core. The main challenge is to efficiently identify the faulty fuel assembly during core unloading or in the spent-fuel pool. Once a leaking assembly has been detected, it is then necessary to localize the specific defective fuel rod within that assembly.

Solution

Framatome provides a broad portfolio of sipping solutions to address all operational needs — from reactor unloading and fuel shuffling to testing in the spent-fuel pool or during fuel rod handling. Ultrasonic testing systems are also available to localize defective rods within the fuel assembly.

Customer benefits

- Framatome's sipping solutions constitute a well-established testing method used in nuclear power plants for detecting leaking fuel assemblies and locating defective fuel rods.
- They support both safety and economic efficiency.
- Precise localization of leaking fuel rods within the FA enables cost-effective execution of subsequent repair operations.

Framatome Solutions Portfolio Fuel Field Services

Your performance
is **our** everyday **commitment**

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