

## CORE COMPONENTS CUTTING

For interim storage or final disposal

A reliable, economic and flexible cutting technology: Device for Core Components Cutting, called DC<sup>3</sup>

### Challenge

It is often a large financial and logistical challenge to dispose of the irradiated core components, CC, for example Rod Control Cluster Assembly (RCCA), dummy rods and others with similar geometries. Furthermore, to achieve the most efficient use of the required waste canisters is an additional challenge.

### Solution

Based on Framatome's years of experience, the newly developed DC<sup>3</sup> helps to facilitate the disposal of the irradiated CC. Due to its compact design, DC<sup>3</sup> brings the customer flexibility for implementation and use. DC<sup>3</sup> uses existing handling tools, providing an easy installation for the user. The cutting tool is adaptable to the geometries to be cut and any required cutting length can be realized. DC<sup>3</sup> is supported by the swivel shaft solution, which ensures an optimal loading of the cut parts into the waste canister.

- The DC<sup>3</sup> is installed in an existing rack, e.g. in the cask loading pool
- The CC are cut vertically by the DC<sup>3</sup>
- The cut-off component part is loaded directly into the waste canister

### Customer benefits

- The cut-off segment can be loaded directly into the waste canister without additional handling
- Savings on waste canister due to optimized cutting process
- DC<sup>3</sup> is designed to operate underwater under a high radioactivity level
- Efficient and space-saving cutting device
- User-friendly installment and opportunity for temporary set up due to optimized design

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Device for Core Components Cutting, DC<sup>3</sup>

### Technical information

The DC<sup>3</sup>, developed for underwater use, is operated with system-compatible hydraulic fluid. The DC<sup>3</sup> is specifically designed for cutting round CC in parallel arrangement.

- Simultaneous cutting of all rods
- No bar bending during cutting
- Easy maintenance
- Existing tools can be used during the cutting process for safe, regular handling of CC
- Foreign material exclusion protected due to housing
- Collection of filling gases during cutting

### Key figures

**~30 min** process time for each CC

**~10%** savings on waste canisters

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