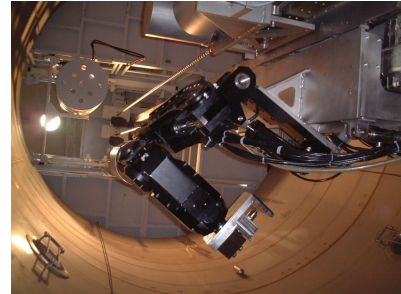


## WATER ABRASIVE SUSPENSION (WAS) CUTTING IN THE NUCLEAR INDUSTRY



### HISTORY

#### Research reactor VAK (Versuchsatomkraftwerk Kahl) / 1997 - 2001

Research, testing and qualification of the Water Abrasive Suspension (WAS) cutting technology for the decommissioning of the reactor and the reactor systems.

The work started in May 1997. During the test program ANT did the further development of the WAS technology up to 200 MPa.

The decommissioning of the reactor and the reactor systems has been executed in air and under water. The maximum thickness of the material (steel) was 200 mm.

#### GNS - Gesellschaft für Nuklearservice mbH / 2000

Research and testing of a decommissioning technology for ultimate waste disposal of penetration adapters

#### EWN - Energiewerke Nord GmbH / 2001

Cuts on a heat exchanger

#### Framatome ANP / 2002

Revision work in the "hot area" of the nuclear power plant in Trillo (Spain)

#### AREVA NP GmbH / 2006 - 2007

Delivery of a complete WAS system including several remote controlled cutting devices for the decommissioning of the internals of the reactor pressure vessel from the nuclear power plant in Würgassen.

#### AREVA NP GmbH/ 2007 - 2008

Delivery of a complete WAS system including several remote controlled cutting devices for the decommissioning of the internals of the reactor pressure vessel from the nuclear power plant in Stade.

#### AREVA NP GmbH/ 2008 - 2009

Delivery of a complete WAS system including several remote controlled cutting devices for the decommissioning of the reactor pressure vessel from the nuclear power plant in Würgassen.

#### SIEMPELKAMP NIS Ingenieurgesellschaft mbH / 2009 – 2010

Delivery of several remote controlled cutting devices for the decommissioning of the reactor pressure vessel of the nuclear power plant in Stade.

## WATER ABRASIVE SUSPENSION (WAS) CUTTING IN THE NUCLEAR INDUSTRY

### REFERENCES

(March 2009)

Customer	Short project description	Location
Research reactor VAK	Decommissioning of the reactor and the reactor internals by WAS cutting including several remote controlled cutting devices in air and under water	VAK Kahl, Germany
GNS - Gesellschaft für Nuklearservice mbH	Research and testing of a decommissioning technology for ultimate waste disposal of penetration adapters	Essen, Germany
EWN - Energiewerke Nord GmbH	Cuts on a heat exchanger	Rubenow, Germany
Framatome ANP	Revision work in the "hot area" of the nuclear power plant in Trillo (Spain)	Central Nuclear de Trillo, Spain
AREVA NP GmbH	Delivery of a complete WAS system including several remote controlled cutting devices for the decommissioning of the <u>internals</u> of the reactor pressure vessel of the nuclear power plant in Würzgassen	E.ON NPP Würzgassen, Germany
AREVA NP GmbH	Delivery of a complete WAS system including several remote controlled cutting devices for the decommissioning of the <u>reactor pressure vessel</u> of the nuclear power plant in Würzgassen	E.ON NPP Würzgassen, Germany
AREVA NP GmbH	Delivery of a complete WAS system including several remote controlled cutting devices for the decommissioning of the <u>internals</u> of the reactor pressure vessel of the nuclear power plant in Stade	E.ON NPP Stade, Germany
SIEMPELKAMP NIS Ingenieurgesellschaft mbH	Delivery of several remote controlled cutting devices for the decommissioning of the <u>reactor pressure vessel</u> of the nuclear power plant in Stade	E.ON NPP Stade, Germany
RWE Nukem GmbH	Systems for a multi-purpose research reactor (MZFR): bridge manipulator, gripper, splinters exhaust system, truss system for manipulator, drying system, flood compensator	MZFR Alzenau, Germany
RWE Nukem GmbH	Systems for the VEK, Karlsruhe vitrification plant, assay system, fritted-glass-metering system	VEK Karlsruhe, Germany
Dillinger Stahlbau Dillingen (DSD)	Gripper for a multi-purpose research reactor (MZFR)	MZFR Oberhausen, Germany
SNT - Safetec GmbH	Fritted-glass-metering system shield, system for rooms	Krefeld, Germany

Please ask for individual information for your cutting task. We will recommend you the appropriate system.