

ASCO's Hydraulic Control Unit Valves and Maintenance Services

A new option for comprehensive repair and upgrade of Control Rod Drive Mechanism–Hydraulic Control Units (CRD-HCU), including reliable supply of required parts through AREVA's Nuclear Parts Center.

Through the **Nuclear Parts Center (NPC)**, AREVA is now offering the ASCO Scram Solenoid Pilot Valve (NTSSPV) and Directional Control Valve (DCV) products. By stocking these high-quality valves, AREVA is shortening the delivery lead-times and offering a competitive price.

The NPC is currently the Master Distributor of ASCO Nuclear products. This arrangement allows AREVA to support the Delivering the Nuclear Promise® initiative by supplying high-quality products. ASCO is the global leader in nuclear-qualified solenoid valves for nuclear power plants.

In addition, AREVA's BWR Services team can assist with HCU refurbishments during plant online and outage maintenance activities.



AREVA NP

Directional Control Valves (DCV) for BWR HCU Rod Drives Air Cleaning Units

Features and Benefits:

- Proven design installed in plants around the world
- Solenoid housing can be rotated for installation requirements
- Long life stainless-steel bodies and mounting flanges
- Supplied with or without integral flow control device
- Low power consumption coil
- Solenoid housings can be rotated for installation requirements
- Continuous duty class F coil insulation
- Installation is manifold mounted
- Zero minimum operating pressure differential
- 10 CFR Appendix B program accreditation
- Safety related



Safety System Scram Solenoid Pilot Valves (NTSSPV) for HCU

Features and Benefits:

- Replacement for nuclear BWR OEM supplied Legacy Scram Solenoid Pilot Valves
- Qualification exceeds IEEE 382-1996 Zone II
- Specialized FKM Elastomer optimized for specific application
- Qualified for 40 years at 100°F ambient
- 10 CFR Part 50 Appendix B
- Diaphragm operated construction
- Proven to maintain its reaction time over long periods of time
- Envelops all plant parameters for Legacy Scram Solenoid Pilot Valves



AREVA



Hydraulic Control Unit Valves

Refurbishing Hydraulic Control Units includes critical outage and online maintenance tasks to ensure proper functioning of the Control Rod Drive Mechanisms during normal or scram operations.

All Hydraulic Control Systems are equipped with solenoid pilot valves that are fully energized in an untripped condition to control the air supply for the control rod drive scram inlet and outlet valves in Boiling Water Reactor (BWR) nuclear plants. The Directional Control Valves direct drive and exhaust water for control rod assembly movement.

For BWR plants, ASCO provides and supports the original equipment safety system scram solenoid pilot valves (SSPV) for hydraulic control units (HCU), and directional control valves (DCV) for control rod drives (CRD).

AREVA Inc.
Corporate Headquarters
7207 IBM Drive
Charlotte, NC 28262

Ron Jaworowski, PMP
Product Development Manager
Nuclear Parts Center
Phone: 704-805-2180
Fax: 434-382-6115
Cell: 704-877-8450
Ronald.Jaworowski@areva.com

www.us.aveva-np.com/cisweb
us.aveva.com

The Nuclear Parts Center Advantage

In-stock Parts 24/7/365

- Shorten delivery lead-times through NPC stocking of valves
- Competitive pricing
- High-quality product from ASCO
- Reliability
- Online and outage maintenance support from AREVA's BWR Services team



Scan to view our parts on the web:
www.us.aveva-np.com/cisweb

Delivering the Nuclear Promise is a registered trademark of the Nuclear Energy Institute. The data and information contained herein are provided solely for illustration and informational purposes and create no legal obligations by AREVA. None of the information or data is intended by AREVA to be a representation or a warranty of any kind, expressed or implied, and AREVA assumes no liability for the use of or reliance on any information or data disclosed in this document. ©2017 AREVA Inc. All rights reserved.