

ASCO's Hydraulic Control Unit Valves and Maintenance Services

From the Nuclear Parts Center

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 Framatome's Nuclear Parts Center.

Challenge

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.

Solution

Through the Nuclear Parts Center (NPC), Framatome is now offering the ASCO Scram Solenoid Pilot Valve (NTSSPV) and Directional Control Valve (DCV) products. By stocking these high-quality valves, Framatome 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 Framatome to support our customers by supplying high-quality products. ASCO is the global leader in nuclear-qualified solenoid valves for nuclear power plants.

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



Customer benefits

In-stock parts 24/7/365

- Shorten delivery lead-times through NPC stocking of valves
- Competitive pricing
- Improve reliability with high-quality products from ASCO that serve as direct replacements
- Online and outage maintenance support from Framatome's BWR services team
- Reduce procurement and maintenance costs by replacing two existing valves with one valve

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



Features and benefits:

Directional Control Valves (DCV) for BWR HCU rod drives air cleaning units

- 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
- Continuous duty, class F coil insulation
- Installation is manifold mounted
- Zero minimum operating pressure differential
- Safety-related



Safety System Scram Solenoid Pilot Valves (NTSSPV) for HCU

- Replacement for 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
- Diaphragm operated construction
- Proven to maintain its reaction time over long periods of time
- Envelops all plant parameters for legacy scram solenoid pilot valves



Framatome's standard design process qualified engineers understand the process and rigor necessary to support equivalences and design change packages, as needed by the site. Our technical teams stand ready to provide high-quality ASCO Scram Solenoid Pilot Valves and the Directional Control Valve products.



For reliable, efficient inventory management, Framatome can help you manage obsolescence — with confidence.

Scan to view our parts on the web: npc.framatome.com
Off-hours cell phone: 434.610.3880



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