

September 10, 2010

SUBJECT: Woodward CPC-II Product Line Performance Improvement

TO: Whom It May Concern

This e-mail is in response to a realized performance issue related to applying a Woodward CPC-II converter with Siemens Relay valves, and is intended to inform Siemens of Woodward's commitment to support our product.

Since the release of the CPC-II product line, we have sold over 700 CPC-II converters with little or no reported performance/stability issues. We have seen two applications where the CPC-II did not respond as well as our old CPC model. Both of these applications utilized a special hydraulic amplifier located between the CPC-II and the hydraulic actuator cylinder. This special relay/amplifier amplifies the amount of flow going to the final turbine actuator cylinder. One application in question involved a Siemens designed hydraulic amplifier. The second application involved an HTC designed hydraulic amplifier that appears to function very similar to the Siemens amplifier.

No performance issues have been noted in applications in which the CPC-II has been applied to directly drive the related turbine valve actuator cylinder without the use of a special Siemens or HTC relay valve. As a side note it has been reported by our AISFs (Authorized Independent Service Facilities) that the CPC-II has an excellent (better than calculated) reliability record.

We have performed factory testing with the Siemens and HTC hydraulic relay valves in Colorado USA, and believe that a small change to the CPC-II's design will allow us to improve its performance/stability when applied with the Siemens and HTC hydraulic amplifiers. We are in still in the analysis phase of this project but plan on releasing a new version of CPC-II in the near future that can be applied with these special relay valves.

Woodward appreciates Siemens past and present business and is willing to support Siemens where capable to regain Seimens' confidence in Woodward and our products.

Regards,



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