

## Digital Rod Position Indication

*Update your 1970's  
DRPI Electronics  
with a  
Modular Drop in  
Digital replacement*



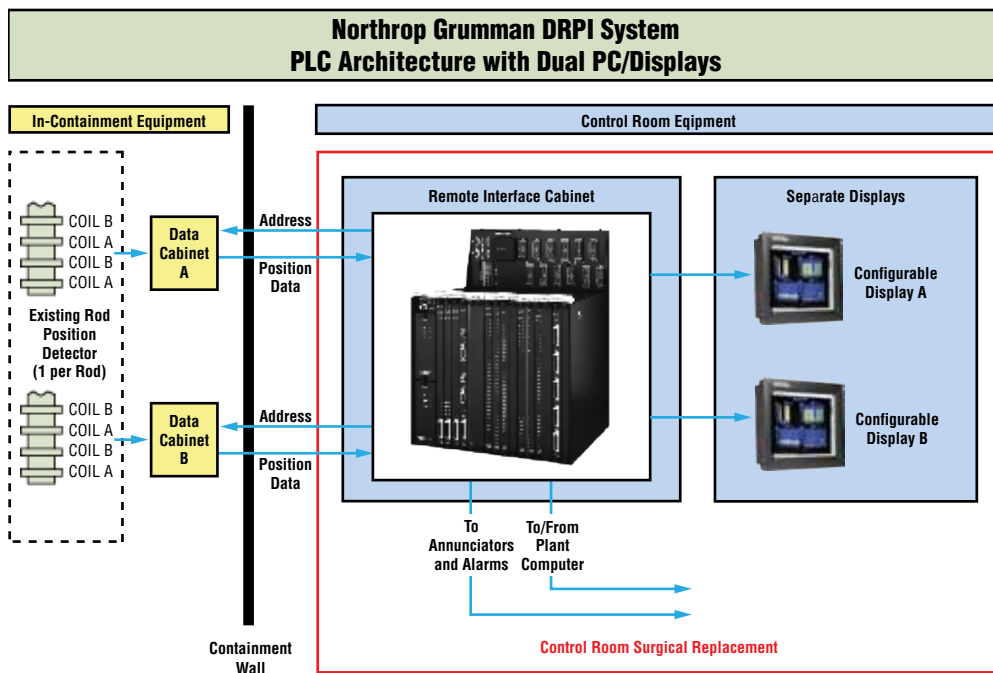
### **DRPI provides reliable enhanced performance**

- Two flat screen Operator Displays with auto-switch over
- Triple Modular Redundant PLC based process cabinet
- No changes in wiring to control room
- Maintains same communications protocol
- Both Operator Displays fit in existing MCB Cutout
- Relocates maintainable electronics to accessible location
- Built –in diagnostics and “hot spares” capable
- Uses existing detector stacks and wiring to control room

### **Overcomes problems of old analog designs**

- Phased installation strategy: Control Room and/or In Containment
- Eliminates power supply single point of failure
- Facilitates built in Rod Drop Testing
- Easily adapted to Plant Simulator

## Digital Rod Position Indication



The new DRPI replacement system from Northrop Grumman eliminates aging electronics and provides enhanced performance and reliability. Our “surgical” replacement approach reuses many of your existing components and preserves existing interfaces to reduce installation time, cost, and risk. Flat screen displays mimic existing user interface and minimize impact to operations. Control Board Display and Data cabinets can be replaced at different outages to meet schedule and budget constraints. In short, DRPI provides a path to replace parts as they become problematic providing significant cost savings, quick turn around time and less risk.

Full qualification tests and Factory Acceptance Tests insure quality. Software is produced in full compliance of nuclear industry standards and formal V&V insures the highest system quality.

Complete design disclosure and complete software licenses can be provided. Our philosophy is to provide adequate technical information to our customers so that they can support, maintain and customize their systems. We build strong support relationships with our customers that are based on collaboration and reasonable pricing.

Design support from our system engineers facilitates integration of the standard DRPI system into your plant. A draft specification template is available for plant engineering to fully characterize and define the system.

On-site installation support and on-site training are included with each system to insure all stakeholders are supported as the new DRPI system is integrated into plant operations. Please call us on 410-552-2809 if you have any questions.

*For more information, please contact:*

Northrop Grumman Corporation  
Power / Control Systems  
7301 Sykesville Road  
Sykesville, MD 21784  
Phone: (410) 552-2809  
e-mail: nuclearpower@ngc.com  
www.northropgrumman.com