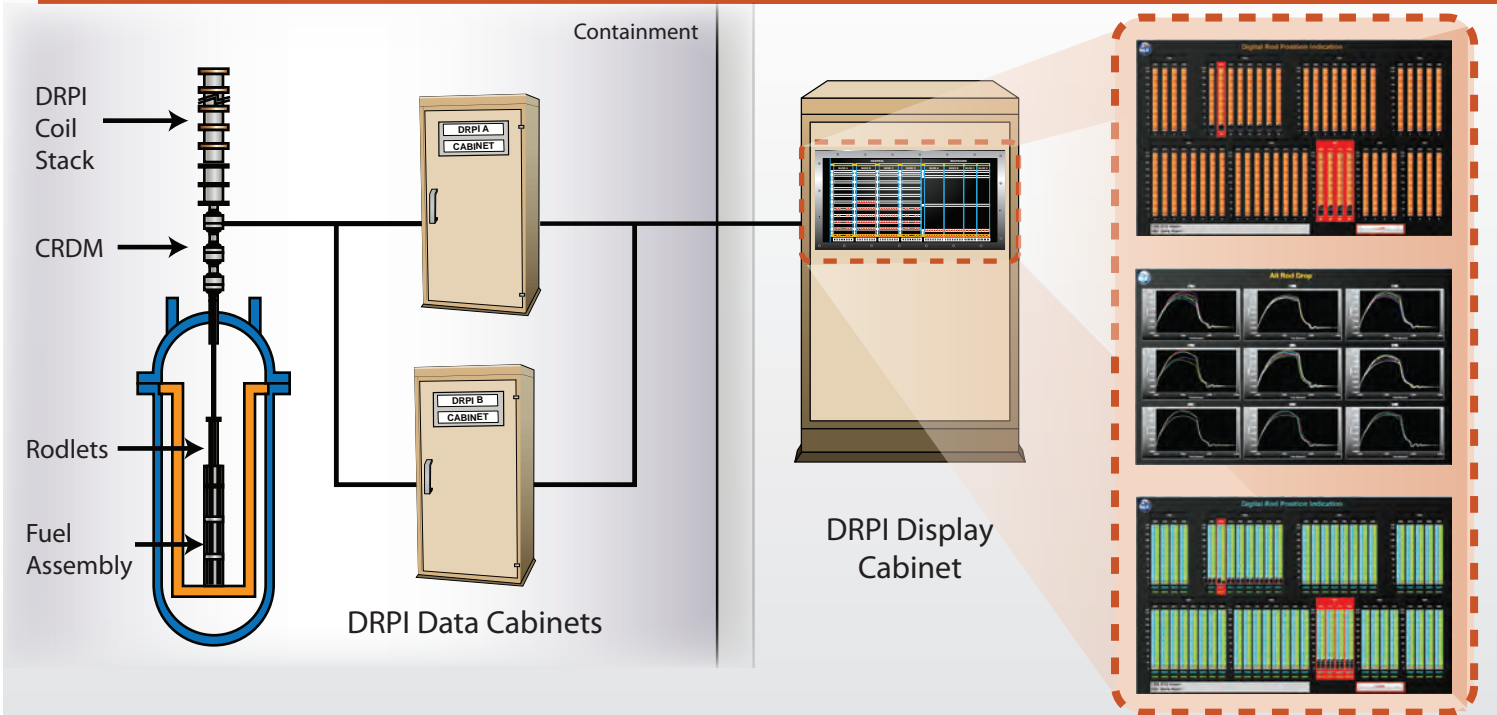




# Digital Rod Position Indication Upgrade



### Benefits

- Existing System Enhancement or Full System Replacement
- Easily Retrofitted into Existing Cabinets
- Remote Access of Diagnostic Data from Outside Containment

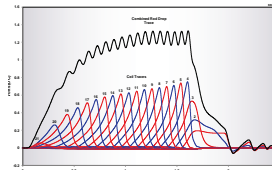
### Rod Diagnostics

- Enhanced Rod Position of  $\pm 1$  Step
- Automated Rod Drop Timing with Improved Resolution
- Online Assessment of Rod Drag Timing

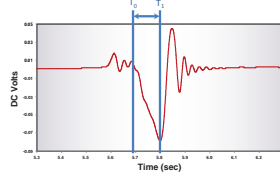
### System Diagnostics

- Online Health Monitoring of DRPI Coils
- In-Situ Detection of Cable Issues
- Online Condition Monitoring of DRPI Power Supplies

### Rod Drop



### Rod Drag



### Coil Impedance

Coil	Vrms	Resistance	Inductance
B21	1.403	9.95	29.54
A21	1.380	10.13	29.02
B20	1.368	10.00	30.57
A20	1.349	10.38	30.03
B19	1.370	10.02	30.94
A19	1.345	10.37	30.30
B18	1.385	10.02	30.87
A18	1.359	10.48	30.29
B17	1.350	10.22	31.15

### Display Diagnostics

- Automated Gray Code Rod Drop Timing
- Online Assessment of DRPI Display Components
- Health Monitoring of DRPI Data Cabinet Modules

### Event Diagnostics

- Automated Error Detection and Logging for Troubleshooting
- Monitoring for Intermittent Alarms
- Automate Maintenance Activities

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✳ 10CFR50 Appendix B Program