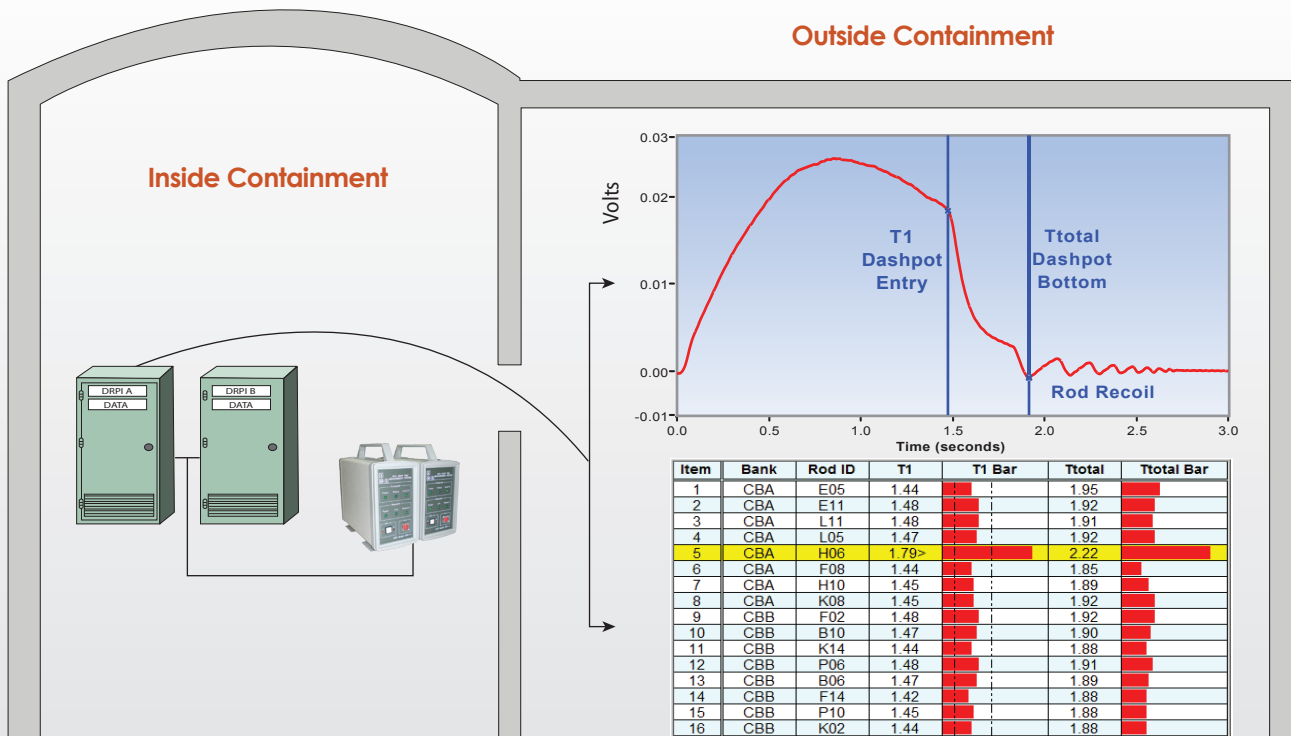




# AUTOMATED ROD DROP TIME MEASUREMENTS IN NUCLEAR POWER PLANTS

For Digital Rod Position Indication (DRPI) Systems



## About

AMS provides automated test equipment for quickly performing rod drop time measurements in Westinghouse Pressurized Water Reactors (PWRs) in just minutes. Rod drop time testing is performed in PWRs to measure the time required for control and shutdown rods to travel from the fully withdrawn to the fully inserted position. The test allows for Digital Rod Position Indication (DRPI) power to remain on by using the AMS Patented **Power-On** Rod Drop Time Measurement technique.

AMS can perform rod drop measurements for a customer on a service basis or provide equipment, and training to enable the customer to perform the tests in-house.

## Benefits

### Recover Critical Path Time

#### Equipment Benefits

- Measure Drop Times of All Rods in a Single Drop
- Test with DRPI Power Energized
- Portable, Lightweight, Quick Hookup

#### Software Benefits

- Rod Drop Times Identified Automatically
- Quick Report Flags Any Anomalies or Outliers
- Data Trended From Cycle to Cycle

#### Diagnostic Benefits

- Automatically Detect Any Rod Recoil Degradation
- Rod Velocity Plot Identifies and Locates Rod Binding
- Find Location of Stuck Rods
- Detect DRPI Coil Issues

For more information please contact:

Dan Beverly (Chief Technical Officer)  
Extension: 112 Email: dan@ams-corp.com

Darrell W. Mitchell (Technical Services Manager)  
Extension: 108 Email: darrell@ams-corp.com

Analysis and Measurement Services Corporation

AMS Technology Center  
9119 Cross Park Drive  
Knoxville, TN 37923, USA

TEL 865 691 1756  
FAX 865 691 9344

EMAIL info@ams-corp.com  
WEB www.ams-corp.com

\* 10CFR50 Appendix B Program

2015 © AMS CORPORATION