



# DRPI COIL DIAGNOSTICS

Digital Rod Position Indication

## About

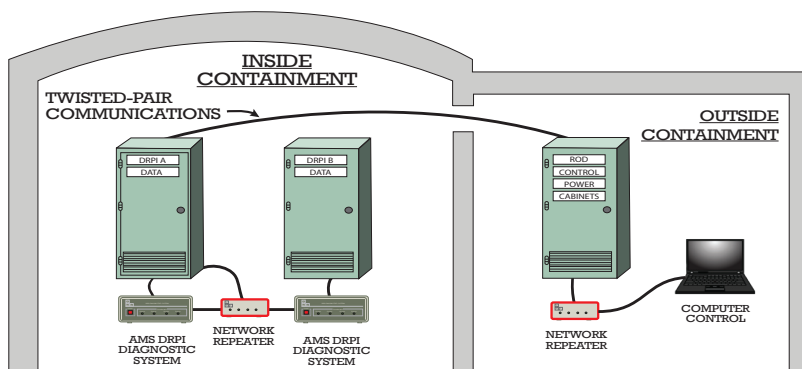
For this service, measurements on the DRPI coil signals are performed to verify proper connections after the reactor head is restored during a refueling outage. It also provides diagnostics regarding the health of the DRPI coils and cables. This testing takes about 1 hour and saves 18 hours of tedious measurements in containment by plant instrument technicians during the refueling outage.



## Benefits

- Provides a holistic view of the health of the entire DRPI system
- Capable of testing both Digital Rod Position Indication (DRPI) A and B Systems in less than one hour
- Examines the health of DRPI power supply cable and coils
- Quickly identifies any bad connections within the DRPI system and detects coil impedance problems
- Can be performed in conjunction with AMS Rod Drop Time Testing Services

## Test Equipment Setup



## Coil Measurements

Coil	RMS (Volts)		Resistance (ohms)		Inductance (mH)	
	D04		D04		D04	
B21	1.49		7.53		36.33	
A21	1.47		7.13		41.02	
B20	1.48		7.05		41.39	
A20	1.45		7.10		42.02	
B19	1.47		7.07		41.87	
A19	1.44		7.05		42.36	
B18	1.46		7.19		42.08	
A18	1.44		7.18		42.25	
B17	1.46		7.22		42.07	
A17	1.43		7.19		42.42	
B16	1.46		7.21		42.08	
A16	1.43		7.32		42.53	
B15	1.46		7.25		42.12	
A15	1.43		7.23		42.45	
B14	1.44		7.36		42.58	
A14	1.43		7.22		42.52	
B13	1.46		7.22		41.83	
A13	1.43		7.21		42.64	
B12	1.46		7.27		42.08	
A12	1.42		7.28		43.18	
B11	1.46		7.21		42.13	
A11	1.42		7.34		42.60	
B10	1.46		7.25		41.83	
A10	1.43		7.38		42.32	
B9	1.45		7.27		42.48	
A9	1.43		7.26		42.43	
B8	1.46		7.21		42.20	
A8	1.43		7.28		42.62	
B7	1.45		7.30		42.20	
A7	1.43		7.36		42.27	
B6	1.46		7.26		42.01	
A6	1.43		7.37		42.40	
B5	1.45		7.34		42.37	
A5	1.43		7.29		42.56	
B4	1.43		7.62		42.50	
A4	1.43		7.33		42.30	
B3	1.45		7.41		41.96	
A3	1.42		7.55		42.55	
B2	1.43		7.74		42.28	
A2	1.20		9.65		50.36	
B1	0.85		14.64		75.21	
A1	0.94		19.18		60.63	

