

<b>Inspection tool name</b>	<b>Near Field Testing (NFT) Electromagnetic Tool</b>
<b>Inspection tool description</b>	Dual module inspection tool for manned inspection with live data viewing capabilities. Suitable for detection of broken wires in PCCP. Self-driven through the pipe with limited additional equipment required for steep climbs. Assembled in pipe.
<b>Dimensions of inserted inspection tool</b>	36-inch to 200+-inch diameter 96-inch length
<b>Technical Constraints</b>	
<b>Pipe Material</b>	PCCP
<b>Pipe Diameter (inches)</b>	36-inch to 200+-inch
<b>Pipe slope (%)</b>	100% during tethered operation
<b>Flow requirements (feet per sec)</b>	Not compatible with free swimming applications
<b>Pressure (psi)</b>	N/A
<b>Maximum inspection distance per access location (feet)</b>	9,600 feet
<b>Types of anomalies detected</b>	Wire breaks 5 continuous wire breaks
<b>Resolution of detected anomalies</b>	1 arc length circumferentially, where an arc length is defined as the length along the helix starting from a conducting longitudinal member to another (or the same) longitudinal member
	0.2-inch axially
<b>Anomaly detection limitations (pipe barrel thickness, joints, pipe thickness, valves)</b>	Proximity of significant increases or decreases in metal wall thickness (i.e., valve, flange, joint etc.)
<b>Pipe entry access requirements (flange dia., manhole diameter/height, etc.)</b>	Minimum 18-inch diameter manhole access
<b>Typical analysis time required</b>	6 to 8 weeks
	On-site preliminary data analysis in 2-3 days
<b>Typical rate of inspection (e.g., miles/day)</b>	Inspection speed = 40-80 feet/minute Inspection coverage = 4 miles/day
<b>Other applicable restrictions/limitations</b>	Can pass through full-port inline valves (i.e., gate valves, if fully open), but cannot pass through butterfly valves without disassembly on one side and re-assembly on the other.