

SUBSTATION RELIABILITY SERVICES

On-Line Services	ACOUSTIC EMISSION (AE) - DIAGNOSTIC TESTING & CONTINUOUS MONITORING	<ul style="list-style-type: none"> • Power Transformers • Load Tap Changers • Reactors • Instrument Transformers 	<ul style="list-style-type: none"> • Circuit Breakers • Gas Insulated Substations • Cables (Splices) • HV Bus Bars
	ELECTRICAL PARTIAL DISCHARGE (HFCT)	<ul style="list-style-type: none"> • Transformers • Gas Insulated Substations • Reactors • Instrument Transformers 	<ul style="list-style-type: none"> • Circuit Breakers • Gas Insulated Substations • Medium Voltage Cables NEW
	DGA AND OIL QUALITY TESTS (LABORATORY)	<ul style="list-style-type: none"> • Power Transformers • Reactors • Circuit Breakers 	<ul style="list-style-type: none"> • Bushings • Instrument Transformers
	VIBRATION - DIAGNOSTIC TESTS AND CONTINUOUS MONITORING	<ul style="list-style-type: none"> • Power Transformers • Reactors • Circuit Breakers 	<ul style="list-style-type: none"> • Instrument Transformers • Load Tap Changers
	INFRARED	<ul style="list-style-type: none"> • Power Transformers & Accessories • Dry Type Transformers • Circuit Breakers 	<ul style="list-style-type: none"> • Power Reactors • HV Substations • Low Voltage Equipment • Metal Clad Switchgear
	TRANSIENT EARTH VOLTAGE (TEV) & ULTRASOUND NEW	<ul style="list-style-type: none"> • Metal Clad Switchgear • Dry Type Transformers • Gas Insulated Substations 	<ul style="list-style-type: none"> • HV Substations • Circuit Breakers (SF6)
	SF6 ON-SITE ANALYSIS NEW	<ul style="list-style-type: none"> • Circuit Breakers • Gas Insulated Substation 	<ul style="list-style-type: none"> • Instrument Transformers
	ON-SITE DISSOLVED GAS ANALYSIS & MOISTURE TESTS	<ul style="list-style-type: none"> • Power Transformers • Reactors • Load Tap Changers 	<ul style="list-style-type: none"> • Circuit Breakers • Bushings
	SOUND MEASUREMENTS	<ul style="list-style-type: none"> • Transformers 	<ul style="list-style-type: none"> • Reactors
Off-Line Services	SWEEP FREQUENCY RESPONSE ANALYSIS NEW	<ul style="list-style-type: none"> • Power Transformers 	<ul style="list-style-type: none"> • Reactors
	DIELECTRIC FREQUENCY RESPONSE (DFR) NEW	<ul style="list-style-type: none"> • Power Transformers • Reactors 	<ul style="list-style-type: none"> • Instrument Transformers • Circuit Breakers
	INSULATION RESISTANCE NEW	<ul style="list-style-type: none"> • Power Transformers • Circuit Breakers 	<ul style="list-style-type: none"> • Instrument Transformers
	CONTACT RESISTANCE NEW	<ul style="list-style-type: none"> • Circuit Breakers 	
	TRANSFORMER TURN RATIO (TTR) NEW	<ul style="list-style-type: none"> • Power Transformers 	<ul style="list-style-type: none"> • Reactors
	WINDING RESISTANCE NEW	<ul style="list-style-type: none"> • Power Transformers 	<ul style="list-style-type: none"> • Reactors
	PRIMARY INJECTION NEW	<ul style="list-style-type: none"> • Circuit Breakers 	
CONDITION ASSESSMENT		<ul style="list-style-type: none"> • Transformer Health Index Calculations 	