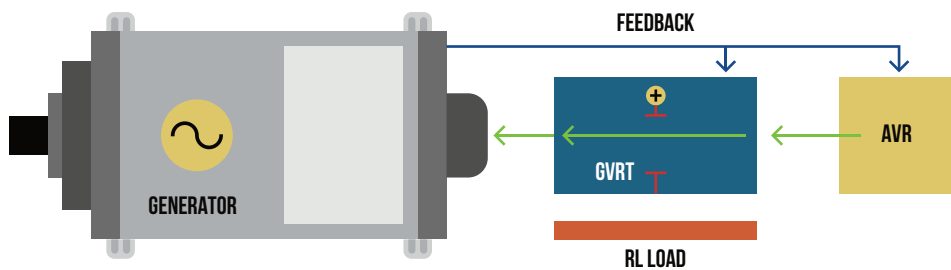


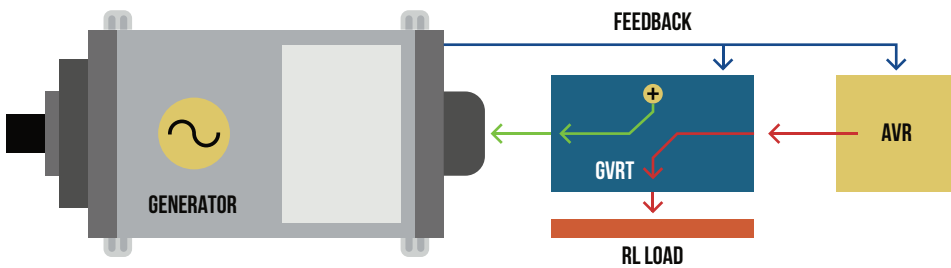
PROVE HOW YOUR GENERATOR REACTS

The GVRT applies controlled excitation changes to trigger real generator behavior under fault-like conditions. It runs without changing protection settings or interrupting system logic. You don't just press a button and hope, you trigger the actual response and know it works. Every test records live waveform data and outputs a clear pass or fail based on pre-set criteria. The data is yours to keep and review.

HOW IT OPERATES



The GVRT is installed between the AVR and the generator field winding. In standby, it passes along the AVR's output. During a test, it adjusts the excitation voltage to induce a controlled transient. Each test is pre-programmed and executed by OneStep Power engineers.



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WHAT GVRT DOES THAT OTHERS DON'T

- Induces real generator behavior
- Maintains full protection system functionality
- Confirms performance using defined pass/fail thresholds
- Requires no override of existing logic or protection settings
- Keeps the vessel power online during testing
- Outputs full waveform data owned by the client



GENERATOR CONFIGURATIONS WE SUPPORT

PARAMETER	UOM	MINIMUM	MAXIMUM
Size of generator being controlled	MW	No Limit	No Limit
Specification of generator	-	AVR controlled	No Limit
Input current	Amp	No minimum	5
Output current	Amp	No minimum	25
Input voltage	Volts	110	690
Output voltage	Volt	No minimum	100
Engine shut-down	Y/N	No minimum	Yes
Number of generators which can be tested	Qty	1	10
Distance from GVRT to control hub	m	No minimum	100
GVRT controlled generator voltage	% (System)	0%	120%

Traditional fault testing risks equipment, delays schedules, and often relies on OEM interpretation. OneStep's GVRT lets you see how your generator behaves under fault conditions, without triggering a live short circuit. No bypasses. No compromises. Just direct proof of system response.

BUILT-IN SAFETY AND CONTROL

If communication is lost, the GVRT automatically reverts to AVR control. An internal load keeps the AVR engaged throughout the test, ensuring accurate response. All testing is managed by OneStep engineers. Testing procedures are initiated from a PC, meaning personnel are kept clear during testing.

DESIGNED FOR REAL-WORLD USE

GVRT is used while in operational configuration, during sea trials, or five-year surveys. It gives operators and class societies independent proof of system performance before deployment. It also reduces reliance on OEM-led testing and helps operators meet regulatory requirements.