

MANUFACTURER-SOURCE TECHNICAL REFERENCE

GE Vernova IS215VPROH1BD

Emergency Protection Board Verification Guide

GE Mark VI Emergency Turbine Protection Board

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited GE Vernova manufacturer sources. No product photograph is included.

Product / lookup identity	GE Vernova IS215VPROH1BD
Reference number	IS215VPROH1BD
Document basis	Published GE Vernova product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/General-Electric/is215vproh1bd>

Apter Power contact

sales13@apterpower.com | +86 180 3023 5313

Protection-signal verification path

GE IS215VPROHIBD is a VPRO emergency turbine protection board for the legacy Mark VI Protection Module, subject to confirmation of the full HIBD nameplate. VPRO forms an independent emergency overspeed and emergency-stop subsystem, separate from the primary turbine controller. Three redundant VPRO boards independently evaluate protection inputs and control voted trip-relay paths through TREG.

- | | |
|----|--|
| 01 | VPRO forms an independent emergency overspeed and emergency-stop subsystem, separate from the primary turbine controller. Three redundant VPRO boards independently evaluate protection inputs and control voted... |
| 02 | The VPRO scheme processes dedicated shaft-speed pickup pulses, emergency-stop and trip-interlock states and, where configured, generator/bus voltage, thermocouple and analog signals. It exchanges status with the... |
| 03 | The protection path uses VPRO with TPRO, TREG and TRPG terminal boards; HIB can drive a second TREG through J4. VTUR/TRPG provides a separate primary protection path, allowing either the primary controller path... |

Trip and host-system boundaries

- | | |
|----|--|
| 01 | Status: CONDITIONAL – full HIBD nameplate must be checked |
| 02 | Required Action: Verify the exact IS215VPROHIBD nameplate and the installed system's VPRO/TREG configuration. Do not substitute H2B data: GEH-642IM states that H2B omits second-TREG support. |
| 03 | Safety Gate: This is safety-critical trip hardware. All replacement, configuration and proof testing must follow the unit-specific GE and plant safety procedure. |

Protection-board verification checks

01	Verify the complete IS215VPROHIBD nameplate; do not infer the trailing revision or interchangeability from the VPRO family name.
02	Do not replace H1B with H2B in an application using a second TREG; GEH-6421M says H2B omits the second-TREG function.
03	Treat all work as safety-critical turbine-trip work and follow the unit-specific lockout, replacement, configuration and proof-test procedure.
04	Confirm TPRO, TREG and TRPG board forms, J3/J4/J5/J6 cabling, J7 power, speed-pickup assignment and trip-solenoid circuits before energization.
05	Verify firmware, I/O configuration, overspeed setpoints, emergency-stop logic and relay/solenoid feedback diagnostics against the approved turbine protection design.
06	Do not disable voting or solenoid diagnostics merely to clear alarms; determine whether the installed topology and wiring match the configuration.

Identity and release controls

Status	CONDITIONAL - full HIBD nameplate must be checked
Not Verified In Public Official Sources	['The exact meaning of the trailing D in IS215VPROHIBD.; 'Any unrestricted interchangeability between HIBD and other H1B or H2B revisions.']
Required Action	Verify the exact IS215VPROHIBD nameplate and the installed system's VPRO/TREG configuration. Do not substitute H2B data: GEH-6421M states that H2B...
Safety Gate	This is safety-critical trip hardware. All replacement, configuration and proof testing must follow the unit-specific GE and plant safety procedure.

Official GE Vernova sources

Mark Vie Control Design for Extended Lifecycle Fact Sheet	https://www.gevernova.com/content/dam/gepower-new/global/en_US/downloads/gas-new-site/resources/reference/GEA35307-Mark-Vie-Control-Design-Extended-Lifecycle-Fact-Sheet-RI-DIGITAL.pdf
Mark Vie Distributed Control System (DCS)	https://www.gevernova.com/gas-power/products/digital-and-controls/mark-vie-ecosystem
GE Vernova Gas Power Customer Portal	https://www.gevernova.com/gas-power/customer-portal-menu/customer-portal