Bently Nevada 3300/61-03-01-01-00-00-00

01 Plan the controlled replacement

Place protection in an approved maintenance state

Identify the affected machine channel, alarm outputs and trip circuits before disconnecting the installed unit. Record the present readings and settings so that the replacement can be compared under the same stable condition.

Preparation sequence

01	Verify the complete 3300/61-03-01-01-00-00-00 marking.
02	Record the selected Installed vector-channel ranges retained from the exact assembly scale and both channel readings.
03	Trace the Dual-vector input arrangement retained from the exact assembly signal wiring and channel assignments.
04	Identify relay, barrier, recorder and bypass connections.
05	Establish the approved test and return-to-service conditions.

Configuration to retain

Item	Installed selection
Measurement range	Installed vector-channel ranges retained from the exact assembly
Input / processing	Dual-vector input arrangement retained from the exact assembly
Alarm relay option	Installed alarm interface retained
Safety-barrier option	Installed field interface retained
Approval selection	Installed marking must be verified
Range multiplier	Installed configuration must be verified

Do not copy settings from a nearby monitor

Two monitors in the same rack can have different input systems, ranges and output options. Use the identified channel record and the complete order code for every transfer decision.

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02 Inspect, install and reconnect

Pre-installation checks

Check	Requirement
3300/61-03-01-01-00-00-00	Complete identity and undamaged connector interface
Dual-vector input arrangement retained from the exact assembly	Correct transducer source, sensitivity and polarity
Installed alarm interface retained	Correct relay hardware and downstream contact wiring
Installed field interface retained	Matching rear interface and field-circuit arrangement
Installed vector-channel ranges retained from the exact assembly	Correct scale for the machine protection requirement
Installed configuration must be verified	Correct multiplier state before setpoint comparison

Connection controls

Channel identity
Label each conductor and prove one path at a time.

Rack interface
Inspect seating and connector condition before energizing.

Shield and common
Restore the established signal-reference arrangement.

Alarm contacts
Confirm normal state and required energization logic.

Preserve field-circuit boundaries

A barrier option changes the permissible interface and cannot be treated as a cosmetic code suffix. An unbarriered configuration likewise cannot inherit barrier assumptions from another unit.

Mechanical and electrical inspection

Check for bent contacts, contamination, loose terminations or damaged wiring. Correct these conditions before interpreting a signal discrepancy as a monitor calibration fault.

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03 Configure and verify the measurement

Response-test sequence

01	Energize under controlled conditions.
02	Confirm normal monitor status before applying a signal.
03	Apply a known change to one identified input.
04	Compare the local indication with the Installed vector-channel ranges retained from the exact assembly scale.
05	Observe the assigned recorder and alarm outputs.
06	Repeat independently for the second channel or remaining inputs.

What to compare

Observation	Expected configuration
Source condition	Dual-vector input arrangement retained from the exact assembly
Selected span	Installed vector-channel ranges retained from the exact assembly
Multiplier	Installed configuration must be verified
Alarm hardware	Installed alarm interface retained
Barrier interface	Installed field interface retained
Approval marking	Installed marking must be verified

Separate indication from alarm operation

A correct measurement display does not prove the relay path, and a relay transition does not prove that scaling is correct. Test each stage against the applied condition and recorded setpoints.

Avoid unsupported adjustments

If the response is inconsistent, first check input identity, polarity, sensitivity, range and multiplier. Do not compensate for a wrong transducer or configuration by changing alarm setpoints.

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04 Test alarms and abnormal states

Functional checks

Normal state Confirm expected OK, bypass and alarm indications.	**Controlled crossing** Cross each required setpoint using the approved input method.
Delay and reset Observe the configured delay, latch and reset behavior.	**Contact path** Verify the intended downstream circuit receives the transition.

Fault-response test

01	Remove or interrupt only the approved test signal.
02	Observe the monitor status and the assigned alarm behavior.
03	Restore the signal and confirm recovery or required reset.
04	Repeat without disturbing the other channel.
05	Clear temporary bypasses only after the complete path is accepted.

Relay selection matters

This model uses installed alarm interface retained alarm relays. Test their actual contact logic and downstream use.

Approval and barrier are separate selections

An agency marking does not replace the wiring and functional checks. A barrier choice does not by itself establish approval for the complete installation.

Restore the normal state deliberately

Remove temporary test signals and bypasses in the approved order, then confirm the expected status before reconnecting the downstream protection function.

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05 Troubleshoot and return to service

Symptom-led checks

Observed condition	Investigation
No response	Check input source, polarity, continuity, channel identity and monitor status.
Wrong scale	Check Installed vector-channel ranges retained from the exact assembly, input sensitivity and Installed configuration must be verified multiplier selection.
Unexpected alarm	Compare the applied value, setpoint, delay, latch and bypass state.
Output mismatch	Separate local indication, recorder output and relay-contact testing.
Intermittent behavior	Inspect rack seating, terminals, shield/common and field-cable condition.
One channel differs	Apply the same controlled method to each channel and trace assignments.

Release evidence

Measurement Stable response across the intended part of the selected span.	**Outputs** Recorder and relay paths correspond to the identified channel.
Configuration Range, input, barrier, multiplier and alarm settings restored.	**Protection state** Required bypasses removed and downstream functions accepted.

Record the completed work

Verify module seating, EPROM identity, rack system-monitor type, internal or external SDI/DDI communication path, both vector-channel responses and the complete alarm path before returning the monitor to service.

Related product references

Bently Nevada 3300/35-13-01-01-00-00

Bently Nevada 3300/65-13-01-00-00-01-00