

APTER POWER FIELD WORKBOOK

INSTALLATION | APPLICATION | VERIFICATION

3500/90

Communication Gateway

CONTROLLED ENGINEERING COPY

The current Baker Hughes document identifies 3500/90 only as the original gateway predecessor; retain the installed manual, register map and port configuration for exact service details.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	3500/90
Manufacturer part	3500/90
Hardware type	original 3500 Communication Gateway
System family	Bently Nevada 3500 System



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete 3500/90 marking and its assigned Bently Nevada 3500 System position before work.
- 2

Place the connected dcs data integration process in the approved maintenance state.
- 3

Isolate every documented power, signal and stored-energy source before disconnecting conductors or cables.
- 4

Record the installed slot, connectors, conductors, addressing, firmware and software configuration before removal.
- 5

Use ESD-safe handling and protect keyed electrical, fiber or sensor interfaces as applicable.

MATCHED HARDWARE

- Bently Nevada 3500 System
- the documented companion module
- approved field wiring
- the controlled rack configuration

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	3500/90 / 3500/90 recorded
Physical interface	Bently Nevada 3500 System
Companion check	the documented companion module
Functional proof	Transfers 3500 rack values and statuses
Application test	DCS data integration

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
product generation	original 3500 Communication Gateway
rack data	monitored values and statuses
automation integration	process control and other automation systems
serial interfaces	RS232, RS422 and RS485 family interfaces documented for the successor
Ethernet family interface	TCP/IP communication documented for the successor
protocol family	Modicon Modbus and proprietary Bently Nevada communication
primary-value registers	supported by the original 3500/90
official successor	3500/92 Communication Gateway

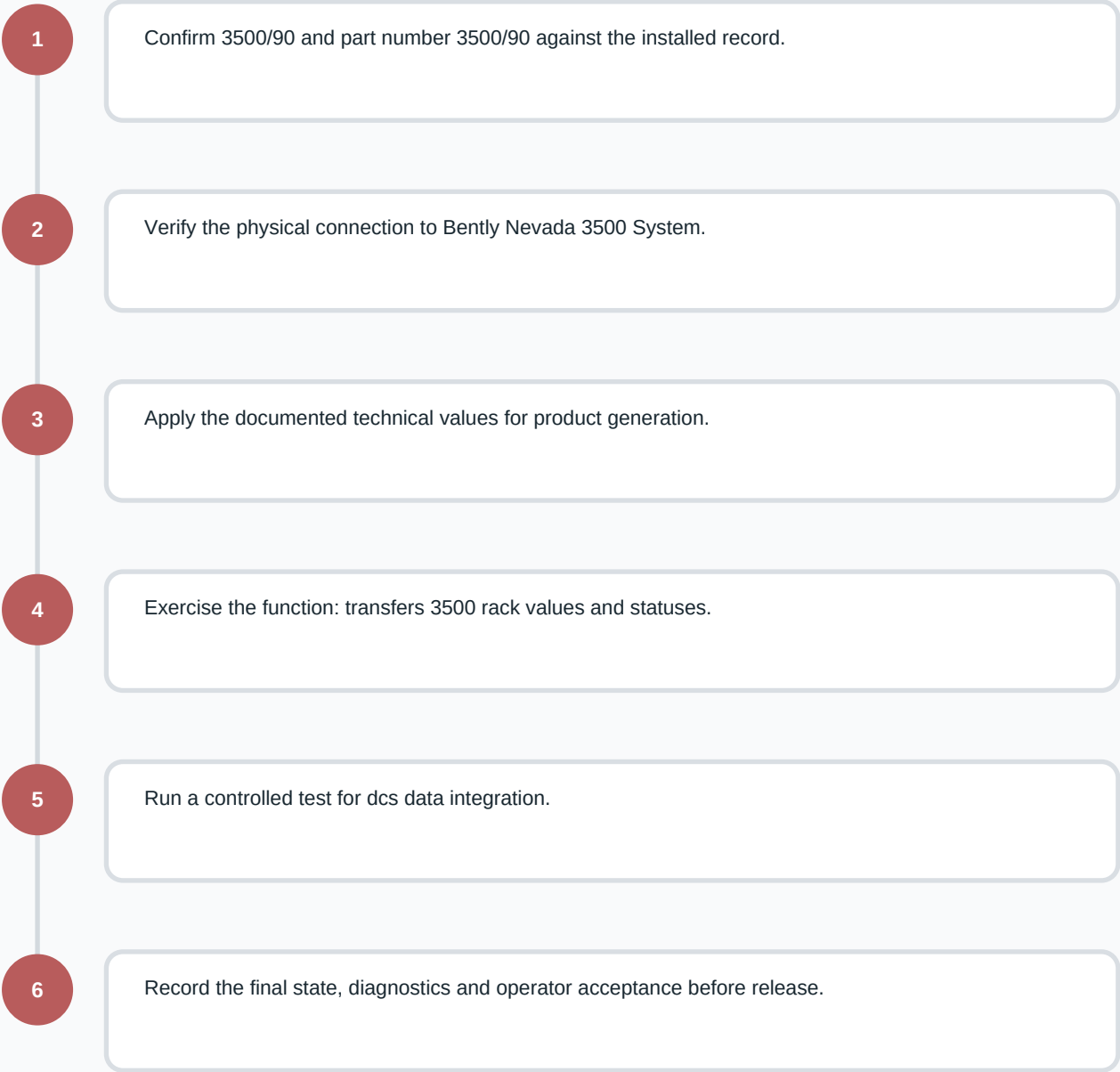
SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	Bently Nevada 3500 System
Companion hardware	the documented companion module
Field connection	approved field wiring
Primary system function	Transfers 3500 rack values and statuses
Controlled acceptance duty	DCS data integration

FIELD NOTE

The current Baker Hughes document identifies 3500/90 only as the original gateway predecessor; retain the installed manual, register map and port configuration for exact service details.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	3500/90 / 3500/90 recorded
Physical interface	Bently Nevada 3500 System
Companion check	the documented companion module
Functional proof	Transfers 3500 rack values and statuses
Application test	DCS data integration

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed Bently Nevada 3500 System and the documented companion module against the approved project.
- ☐
- Restore power in a controlled sequence and review device, network and host diagnostics.
- ☐
- Prove the intended serial modbus exchange function and retain the final acceptance result.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	3500/90
INSTALLED POSITION	Documented Bently Nevada 3500 System position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GE 750 P5 G5 HI A1 R E	Related industrial automation product	View GE 750 P5 G5 HI A1 R E page
Allen-Bradley 1794 OE4XT	Related industrial automation product	View Allen-Bradley 1794 OE4XT page
Siemens 6SL3120 2TE21 8AD0	Related industrial automation product	View Siemens 6SL3120 2TE21 8AD0 page
Siemens 6SE7041 8EK85 0LA0	Related industrial automation product	View Siemens 6SE7041 8EK85 0LA0 page
Siemens 6SE7035 1EJ84 1JC2	Related industrial automation product	View Siemens 6SE7035 1EJ84 1JC2 page
ABB DSQC332	Related industrial automation product	View ABB DSQC332 page
Allen-Bradley 1794 IE4XOE2	Related industrial automation product	View Allen-Bradley 1794 IE4XOE2 page
Siemens 6SE7090 0XX84 1CE0	Related industrial automation product	View Siemens 6SE7090 0XX84 1CE0 page

SOURCE IDENTIFIERS

3500/92 Communication Gateway Datasheet (official comparison to original 3500/90)
141542 Rev. N

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