



TECHNICAL BULLETIN

250NX, 333NX, 500NX, 1kV-500NX, 1000NX

Preventative Maintenance Policy

REVISION HISTORY

Rev	Description	Date
A	Initial Release	At Manufacture
B	Bulletin Creation	July 21, 2023

PURPOSE

The purpose of this document is to provide guidance to ensure preventative maintenance of AE NX Inverters is performed.

NX INVERTER PREVENTATIVE MAINTENANCE CHECKLIST

Item #	Check or Procedure	Maintenance Cycle
General inspection and cleaning		
1	Record general site conditions. Note specific area environmental risk factors including moisture, rural or urban particles & contaminants, possible corrosion factors.	Annually
2	Record inverter performance data from inverter display. Make notations for critical performance parameters including power, voltage, current, temperature, faults, and others.	Annually
3	Record environmental conditions. Include pertinent weather factors such as temperature, precipitation, humidity, and wind.	Annually
4	Remove dirt and debris from underneath the inverter or sooner as needed. Remove debris which has collected on top of inverter or near seal areas.	Annually
5	Inspect and repair damage to exterior metal surface and paint by removing corrosion and protecting against corrosive contaminants. Ensure moisture ingress integrity of the inverter.	Annually
6	Inspect and clean the interior of inverter. Use special electrostatic discharge (ESD) vacuum and observe ESD practices.	Annually
7	Inspect and replace seals if necessary. Preserve intrusion protection for the inverter by removal and replacement of worn, moldy, or otherwise damaged seals.	Annually
8	Confirm the presence of product documentation.	Annually

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Connections and wiring		
9	Complete visual and mechanical inspection of electrical connections and wiring. Contact Bold Inverter Support (boldrenewables.com) for potential troublesome connections including torque values and measurement process.	Annually
10	Complete thermal scan of inverter connections, wiring, and electronics. Keep thermal scans for record keeping purposes. If regions of the inverter appear to have potential troublesome loose bolted joints or otherwise problematic connections creating hot spots, contact Bold Inverter Support for replacement parts (boldrenewables.com).	Annually
11	Complete the preventative maintenance report including documentation and recommendations. PM report will be required to support potential warranty claims.	Annually
Replace		
12	Replace cabinet air filters. Some environmental conditions may degrade filters requiring more frequent cleaning or replacement.	Annually
13	Inspect Moxa. Pull log files to ensure current files are being generated.	Annually
14	Replace AC transient voltage surge suppression system whenever there is evidence through a fault warning or visible inspection that a trip has occurred.	Annually or when red indicator visible or evidence of fault warning
15	Replace DC transient voltage surge suppression system whenever there is evidence through a fault warning or visible inspection that a trip has occurred.	Annually or when red indicator visible or evidence of fault warning
16	Replace DC, AC and Power Supply Fans. Inspect annually and replace if evidence of wear. <ul style="list-style-type: none"> - Small DC Fan: 3193068-00 - Power Supply Fan: 16230074 - AC Inverter Cabinet Fans: 3311008 (1000NX Excluded) 	Every 5 years or sooner if necessary
17	Replace door seals. Inspect annually and replace if evidence of wear.	Every 5 years or sooner if necessary
18	Replace blowers. (1000NX excluded)	Every 10 years
19	Replace the MOXA	Every 10 Years
20	Charge cooling System and replace gauges. (Bold Technician Service Mandatory)	Suggested Every 10 years

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