



SITE-VISIT & REPAIR REPORT

1. INFORMATION

Project name	Preventive maintenance replacement Digiplex Fetsund A1-3 A
ABB representatives	Didrik Hysing Christopher Kooij Svein Erik Andersen
Work started / finished	19.05.2020 - 26.05.2020
Purpose of visit	Planned maintenance
Service order / project	
Comepany	ABB AS,
Country	Norway
E-mail address	Didrik.hysing@no.abb.com Svein-erik.andersen@no.abb.com Christopher.kooij@no.abb.com

2. CUSTOMER

Customer	Digiplex Fetsund AS
Customer PO number	SJEKK TENDER
Contact person	Dag Oscar Brækken
Address	Heiaveien 9. 1900 Fetsund
Country	Norway
E-mail address	Dag Oscar Brækken < dobraekken@digiplex.com >

3. INFORMATION

Type (typecode)	ABB DPA 500
Application	Data Center
TAG-number	DFAS A1-3 A 1500kW
Date of service	19.05.2020 - 26.05.2020

4. Representatives (On-Site)

ABB-Didrik Hysing
ABB-Svein Erik Andersen
ABB-Christopher Kooij

5. REPORT

Time	Description																																				
Background	<p>Maintenance was planned and performed in accordance with Manufacturer specifications. Performed by certified ABB Tech within the given time interval. Work was performed on 15 ABB DPA D5M 100kVA UPSs operating in parallel configuration.</p> <p>A total of 15 DPA D5M 100kVA units was serviced.</p>																																				
On site	<p>On Site Corrective Actions / Maintenance Performed at Digiplex Fetsund – A1-3 A site by ABB personnel</p> <p>The following consumables were replaced on corresponding units in accordance with the manufacturer recommendation.</p> <p>UPS 1. P01 A5M: 0474 P5M: 0465</p> <table><tr><th>Article nr.</th><th>Description</th><th>Quantity</th></tr><tr><td>00-9162</td><td>Fan - Active M</td><td>3</td></tr><tr><td>04-3427</td><td>Fan - Passive M</td><td>3</td></tr><tr><td>4NWP100455R0001</td><td>NW28061x Input Filter Passive M</td><td>1</td></tr><tr><td>4NWP100456R0001</td><td>NW28060x AC caps Passive M</td><td>1</td></tr><tr><td>4NWP100463R0001</td><td>NW28032x DC caps Active M</td><td>1</td></tr></table> <p>UPS 2. P02 A5M: 0472 P5M: 0463</p> <table><tr><th>Article nr.</th><th>Description</th><th>Quantity</th></tr><tr><td>00-9162</td><td>Fan - Active M</td><td>3</td></tr><tr><td>04-3427</td><td>Fan - Passive M</td><td>3</td></tr><tr><td>4NWP100455R0001</td><td>NW28061x Input Filter Passive M</td><td>1</td></tr><tr><td>4NWP100456R0001</td><td>NW28060x AC caps Passive M</td><td>1</td></tr><tr><td>4NWP100463R0001</td><td>NW28032x DC caps Active M</td><td>1</td></tr></table>	Article nr.	Description	Quantity	00-9162	Fan - Active M	3	04-3427	Fan - Passive M	3	4NWP100455R0001	NW28061x Input Filter Passive M	1	4NWP100456R0001	NW28060x AC caps Passive M	1	4NWP100463R0001	NW28032x DC caps Active M	1	Article nr.	Description	Quantity	00-9162	Fan - Active M	3	04-3427	Fan - Passive M	3	4NWP100455R0001	NW28061x Input Filter Passive M	1	4NWP100456R0001	NW28060x AC caps Passive M	1	4NWP100463R0001	NW28032x DC caps Active M	1
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UPS 3. P03

A5M: 1513

P5M: 1497

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

UPS 4. P04

A5M: 1557

P5M: 1567

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

UPS 5. P05

A5M: 1556

P5M: 1566

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

UPS 6. P06

A5M: 0473

P5M: 0464

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

UPS 7. P07

A5M: 0470

P5M: 0466

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

UPS 8. P08

A5M: 1516

P5M: 1503

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

UPS 9. P09

A5M: 1502

P5M: 1487

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

UPS 10. P10

A5M: 1542

P5M: 1553

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

UPS 11. P11

A5M: 0488

P5M: 0476

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

UPS 12. P12

A5M: 0758

P5M: 0477

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

UPS 13. P13

A5M: 0485

P5M: 1556

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

UPS 14. P14

A5M: 1514

P5M: 1502

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

UPS 15. P15

A5M: 1522

P5M: 1561

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive M	1
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1

After replacement, all functions and parameters were checked and tested. UPS started in local mode to verify full functionality.

UPS 1. P01

Input rectifier – OK

DC booster – OK

UDC Link +360/-360 – OK

Battery charger and discharge function – OK

Static bypass – OK

Inverter output voltage and wave – OK

Synchronization feature – OK

UPS startup normal mode, load protected – OK

Parallel operation – OK

UPS 2. P02

Input rectifier – OK

DC booster – OK

UDC Link +360/-360 – OK

Battery charger and discharge function – OK

Static bypass – OK

Inverter output voltage and wave – OK

Synchronization feature – OK

UPS startup normal mode, load protected – OK

Parallel operation – OK

UPS 3. P03

Input rectifier – OK

DC booster – OK

UDC Link +360/-360 – OK

Battery charger and discharge function – OK

Static bypass – OK

Inverter output voltage and wave – OK

Synchronization feature – OK

UPS startup normal mode, load protected – OK

Parallel operation – OK

	<p>UPS 4. P04 Input rectifier – OK DC booster – OK UDC Link +360/-360 – OK Battery charger and discharge function – OK Static bypass – OK Inverter output voltage and wave – OK Synchronization feature – OK UPS startup normal mode, load protected – OK Parallel operation – OK</p> <p>UPS 5. P05 Input rectifier – OK DC booster – OK UDC Link +360/-360 – OK Battery charger and discharge function – OK Static bypass – OK Inverter output voltage and wave – OK Synchronization feature – OK UPS startup normal mode, load protected – OK Parallel operation – OK</p> <p>UPS 6. P06 Input rectifier – OK DC booster – OK UDC Link +360/-360 – OK Battery charger and discharge function – OK Static bypass – OK Inverter output voltage and wave – OK Synchronization feature – OK UPS startup normal mode, load protected – OK Parallel operation – OK</p> <p>UPS 7. P07 Input rectifier – OK DC booster – OK UDC Link +360/-360 – OK Battery charger and discharge function – OK Static bypass – OK Inverter output voltage and wave – OK Synchronization feature – OK UPS startup normal mode, load protected – OK Parallel operation – OK</p>
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	<p>UPS 8. P08 Input rectifier – OK DC booster – OK UDC Link +360/-360 – OK Battery charger and discharge function – OK Static bypass – OK Inverter output voltage and wave – OK Synchronization feature – OK UPS startup normal mode, load protected – OK Parallel operation – OK</p> <p>UPS 9. P09 Input rectifier – OK DC booster – OK UDC Link +360/-360 – OK Battery charger and discharge function – OK Static bypass – OK Inverter output voltage and wave – OK Synchronization feature – OK UPS startup normal mode, load protected – OK Parallel operation – OK</p> <p>UPS 10. P10 Input rectifier – OK DC booster – OK UDC Link +360/-360 – OK Battery charger and discharge function – OK Static bypass – OK Inverter output voltage and wave – OK Synchronization feature – OK UPS startup normal mode, load protected – OK Parallel operation – OK</p> <p>UPS 11. P11 Input rectifier – OK DC booster – OK UDC Link +360/-360 – OK Battery charger and discharge function – OK Static bypass – OK Inverter output voltage and wave – OK Synchronization feature – OK UPS startup normal mode, load protected – OK Parallel operation – OK</p>
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	<p>UPS 12. P12 Input rectifier – OK DC booster – OK UDC Link +360/-360 – OK Battery charger and discharge function – OK Static bypass – OK Inverter output voltage and wave – OK Synchronization feature – OK UPS startup normal mode, load protected – OK Parallel operation – OK</p> <p>UPS 13. P13 Input rectifier – OK DC booster – OK UDC Link +360/-360 – OK Battery charger and discharge function – OK Static bypass – OK Inverter output voltage and wave – OK Synchronization feature – OK UPS startup normal mode, load protected – OK Parallel operation – OK</p> <p>UPS 14. P14 Input rectifier – OK DC booster – OK UDC Link +360/-360 – OK Battery charger and discharge function – OK Static bypass – OK Inverter output voltage and wave – OK Synchronization feature – OK UPS startup normal mode, load protected – OK Parallel operation – OK</p> <p>UPS 15. P15 Input rectifier – OK DC booster – OK UDC Link +360/-360 – OK Battery charger and discharge function – OK Static bypass – OK Inverter output voltage and wave – OK Synchronization feature – OK UPS startup normal mode, load protected – OK Parallel operation – OK</p> <p>Preventive maintenance replacement completed.</p> <p>Next recommended preventive maintenance: year 2025-2026.</p>
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