

SITE-VISIT & REPAIR REPORT

1. INFORMATION

Service order / project

Project name Preventive maintenance replacement Digiplex Fetsund A1-1 A

ABB representatives Didrik Hysing

Svein Erik Andersen Christopher Kooij

Christopher.kooij@no.abb.com

Work started / finished 09.06.2020 - 17.06.2020

Purpose of visit Planned maintenance

Comepany ABB AS,

Country Norway

E-mail address <u>Didrik.hysing@no.abb.com</u> <u>Svein-erik.andersen@no.abb.com</u>

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>

09.06.2020 - 17.06.2020

3. INFORMATION

Date of service

Type (typecode)

Application

TAG-number

ABB DPA 500

Data Center

DFAS A1-3 A 1500kW

4. Representatives (On-Site)

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



5. REPORT

Time	Description			
Background	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. A total of 15 DPA D5M 100kVA units was serviced.			
On site	On Site Corrective Actions / Maintenance Performed at Digiplex Fetsund – A1-1 A site by ABB personnel			
		nables were replaced on correspor e manufacturer recommendation.	iding units	
	UPS 1. P01 A5M: 0285 P5M: 0279			
	Article nr.	Description	Quantity	
	00-9162	Fan - Active M	3	
	04-3427	Fan - Passive M	3	
	4NWP100455R0001			
	4NWP100456R0001	NW28060x AC caps Passive M	1	
	4NWP100463R0001	NW28032x DC caps Active M	1	
	UPS 2. P02 A5M: 0291 P5M: 0286			
	Article nr.	Description	Quantity	
	00-9162	Fan - Active M	3	
	04-3427	Fan - Passive M	3	
	4NWP100455R0001	NW28061x Input Filter Passive I		
	4NWP100456R0001	NW28060x AC caps Passive M	1	
	4NWP100463R0001	NW28032x DC caps Active M	1	
		1		

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UPS 3. P03 A5M: 0284 P5M: 0281

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

UPS 4. P04

A5M: 0289 P5M: 0282

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

UPS 5. P05

A5M: 0287 P5M: 0284

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

UPS 6. P06

A5M: 0293 P5M: 0258

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive N	$\mathbf{\Lambda} = 1$
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1



UPS 7. P07 A5M: 0294 P5M: 0288

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

UPS 8. P08

A5M: 0296 P5M: 0289

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

UPS 9. P09

A5M: 0297 P5M: 0291

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

UPS 10. P10

A5M: 0301 P5M: 0292

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive N	$\mathbf{\Lambda} = 1$
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1



UPS 11. P11 A5M: 0282 P5M: 0277

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

UPS 12. P12

A5M: 0274 P5M: 0269

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

UPS 13. P13

A5M: 0264 P5M: 0259

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

UPS 14. P14

A5M: 0266 P5M: 0261

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive N	$\mathbf{\Lambda} = 1$
4NWP100456R0001	NW28060x AC caps Passive M	1
4NWP100463R0001	NW28032x DC caps Active M	1



UPS 15. P15 A5M: 0268 P5M: 0263

Article nr.	Description	Quantity
00-9162	Fan - Active M	3
04-3427	Fan - Passive M	3
4NWP100455R0001	NW28061x Input Filter Passive N	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



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

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

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

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



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

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

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

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



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

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

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

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

Preventive maintenance replacement completed.

Next recommended preventive maintenance: year 2025-2026.

For ABB AS Didrik Hysing

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