

Hr / Billinstad 15.9.2015

**To:** Marianne Aanesen

DigiPlex Fet AS  
Ulvenveien 89B  
0581 Oslo

**Copy:**

Markku Samuelsson, Digiplex  
Jan Wøien, ABB AS

**Ref:** ABB UPS Service Contract, Scope Update "Byggetrinn A2/1"

Dear Ms. Aanesen,

ABB UPS Systems for Fetsund "Byggetrinn A2/1" (fourth stage) have been handed over to Digiplex.

Please find attached the update pages to the **"ABB UPS Maintenance Contract, nr. ABBUPS001115"**:

- **Appendix 1, Page 2(4)**, please replace existing page in the folder by this new page
- **Appendix 2, A2/1 UPS SYSTEMS A- and B-SIDE**, please add this page to Appendix 2 in the folder

Thank you for your kind assistance.

With Best Regards,



Heikki Rantama

Manager  
PG Power Protection (UPS)  
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PLEASE  
REPLACE

- 1 x active sub-module
- 1 x passive sub-module
- 1 x fuses kit

#### 4.1 OPTION: AKKA On-Line Battery Monitoring

24x7 automatic battery monitoring at block level. Each battery is constantly monitored, and possible deviations alarmed to user.

Requires fixed installation of AKKA central units, measurements cables and remote communication lines.

or alternatively

#### 4.2 OPTION: AKKA Periodic Battery Monitoring

By ABB service personnel with portable AKKA-device. Information also available at block level.  
Recommended measurement cycle: minimum twice a year.

Requires fixed installation of AKKA-measurements cables.

#### 5.1 Annual Training

The Contractor shall supply on-site training to the site based maintenance personnel on an annual basis as part of their maintenance tasks. Elements of this training are described in *Appendix 4 "Annual Training"*.

## B UPS SYSTEMS INFORMATION

UPS systems are ABB modular DPA500 series equipped with modular Sprinter or Marathon Battery (40-48 batteries each string). Product details are presented in *Appendix 2, "Digiplex Fetsund UPS Systems"*.

Construction Zone	Frame/Module/Battery	Commissioning Date	Contract Date	Warranty Expiring Date
A1/1A 1 <sup>st</sup> Floor	3xDPA500 /15x100kW / 600 x Marathon Battery	17.10.2014	15.06.2015	19.01.2017
A1/1B 1 <sup>st</sup> Floor	3xDPA500 /15x100kW / 600 x Marathon Battery	17.10.2014	15.06.2015	19.01.2017
A1/2A 2 <sup>nd</sup> Floor	3xDPA500 /15x100kW / 600 x Marathon Battery	18.02.2015	15.06.2015	03.03.2017
A1/2B 2 <sup>nd</sup> Floor	3xDPA500 /15x100kW / 600 x Marathon Battery	18.02.2015	15.06.2015	03.03.2017
A1/3A 3 <sup>rd</sup> Floor	3XDPA500/06x100kW / 288 x Sprinter Battery*	12.05.2015	15.06.2015	20.05.2017
A1/3B 3 <sup>rd</sup> Floor	3XDPA500/06x100kW / 288 x Sprinter Battery*	13.05.2015	15.06.2015	20.05.2017
A2/1A 1 <sup>st</sup> Floor	3xDPA500 /15x100kW / 600 x Marathon Battery	13.07.2015	01.09.2015	01.09.2017
A2/1B 1 <sup>st</sup> Floor	3xDPA500 /15x100kW / 600 x Marathon Battery	13.07.2015	01.09.2015	01.09.2017

\* Warranty expiring date for Sprinter batteries, moved from 1<sup>st</sup> floor: 19.1.2017

DIGIPLEX, Fetsund Data Center

ABB UPS Maintenance Contract

APPENDIX 2, UPS Systems

A2/1 UPS SYSTEMS A- and B-SIDE

PLEASE  
ADD



ZONE-SIDE	PRODUCT	INTERNAL NUMBER	TYPE	SERIAL NR:	DATE OF COMMISS.	END OF WARRANTY
A2/1-A	UPS FRAME	1	DPA500	5U149	13.07.2015	01.09.2017
A2/1-A	UPS FRAME	2	DPA500	5U147	13.07.2015	01.09.2017
A2/1-A	UPS FRAME	3	DPA500	5U151	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	1	DPA 100kW	DXM555	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	2	DPA 100kW	DXM556	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	3	DPA 100kW	DXM557	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	4	DPA 100kW	DXM567	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	5	DPA 100kW	DXM566	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	6	DPA 100kW	DXM534	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	7	DPA 100kW	DXM546	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	8	DPA 100kW	DXM548	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	9	DPA 100kW	DXM551	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	10	DPA 100kW	DXM552	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	11	DPA 100kW	DXM592	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	12	DPA 100kW	DXM565	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	13	DPA 100kW	DXM561	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	14	DPA 100kW	DXM560	13.07.2015	01.09.2017
A2/1-A	UPS MODULE	15	DPA 100kW	DXM591	13.07.2015	01.09.2017
A2/1-A	BATTERY	1...15	Marathon XL12V70, 600 pcs	-	13.07.2015	01.09.2017
A2/1-A	BATT. BREAKER	1...15	ABB Tmax 250 A	-	13.07.2015	01.09.2017
A2/1-B	UPS FRAME	1	DPA500	5U150	13.07.2015	01.09.2017
A2/1-B	UPS FRAME	2	DPA500	5U148	13.07.2015	01.09.2017
A2/1-B	UPS FRAME	3	DPA500	5U146	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	1	DPA 100kW	DXM539	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	2	DPA 100kW	DXM540	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	3	DPA 100kW	DXM544	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	4	DPA 100kW	DXM547	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	5	DPA 100kW	DXM549	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	6	DPA 100kW	DXM550	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	7	DPA 100kW	DXM559	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	8	DPA 100kW	DXM554	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	9	DPA 100kW	DXM553	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	10	DPA 100kW	DXM558	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	11	DPA 100kW	DXM562	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	12	DPA 100kW	DXM563	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	13	DPA 100kW	DXM568	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	14	DPA 100kW	DXM564	13.07.2015	01.09.2017
A2/1-B	UPS MODULE	15	DPA 100kW	DXM569	13.07.2015	01.09.2017
A2/1-B	BATTERY	1...15	Marathon XL12V70, 600 pcs	-	13.07.2015	01.09.2017
A2/1-B	BATT. BREAKER	1...15	ABB Tmax 250 A	-	13.07.2015	01.09.2017

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