



# Maintenance Schedule

DOCMSACS80002

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Kimmo Hirvonen				

## ACS800 Wind Turbine Drives

<b>Legend:</b>	
Replacement of component (At rated load and ambient conditions)	<b>R</b>
Inspection (visual inspection, correction and replacement if needed)	<b>I</b>
Performance of on-site work (commissioning, tests, measurements, etc.)	<b>P</b>

Air cooled wind turbine drive: A Liquid-cooled wind turbine drive: L			Years from start-up																				
			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<b>Start-up</b>	A	L	P																				
<b>Cooling</b>																							
➤ <b>Air Cooled Unit:</b>																							
➤ Cooling fans	A			I	I	I	I	I	R	I	I	I	I	I	R	I	I	I	I	I	R	I	I
➤ <b>ABB Liquid-Cooled Unit:</b>																							
➤ Cooling fans		L		I	I	I	I	R	I	I	I	I	R	I	I	I	I	R	I	I	I	I	R
➤ Add coolant inhibitor		L		I	P	I	P	I	P	I	P	I	P	I	P	I	P	I	P	I	P	I	P
➤ Water-glycol coolant		L		I		I		R		I		I		R		I		I		R		I	
➤ Expansion tank air pressure		L		I		I		I		I		I		I		I		I		I		I	
➤ Cooling water pump		L		I	I	I	I	I	R	I	I	I	I	I	R	I	I	I	I	I	R	I	I
➤ Cooling water pipe connections		L		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
<b>Heating</b>																							
➤ Heating fan	A			I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
<b>Aging</b>																							
➤ Electrolytic capacitors (DC circuit)		L											R								R		
➤ Memory backup battery replacement in the APBU-xx unit	A	L		I	I	I	I	I	R	I	I	I	I	I	R	I	I	I	I	I	R	I	I
<b>Connections &amp; Surroundings</b>																							
➤ AINT, AITF+ flat cables	A	L										R									R		
➤ Tightness of terminals	A	L							I					I							I		
➤ Quick connector of the converter module	A	L				I			I				I				I				I		I
➤ Cabinet air filters	A			R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
➤ Module air filters	A			R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
➤ Condition of contactors	A	L		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
➤ Output Contactors (maintenance according to manufacturer instructions)	A	L		I	I	I	I	I	I	I	I	I	P	I	I	I	I	I	I	I	I	I	P
➤ Air circuit breaker (maintenance according to manufacturer instructions)	A	L		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
➤ Fiber optic cables (connections)	A	L				I			I				I			I				I			I
➤ Dustiness, corrosion and temperature	A	L		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
➤ Quality of supply voltage	A	L		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
<b>Improvements</b>																							
➤ Based on product notes	A	L		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
<b>Measurements</b>																							
➤ Basic measurements with supply voltage	A	L		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

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Issued by ABB Oy, Product Support	Date 07.02.2007	Language en
Revision A	Page 2 (2)	
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Spare Parts																						
> Spare parts	A	L		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
> DC circuit electrolytic capacitors reforming		L		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

**Note!** Recommended service intervals and component replacements are based on the operational environment specified by ABB. ABB recommends drive inspections to be carried out annually to ensure the highest reliability and optimum performance. More information in service instructions, product manuals and on the Internet pages in the address: [www.abb.com/driveservices](http://www.abb.com/driveservices).