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## SB - Service Bulletin SB B8300903 R1

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Or After a storm Or After a storm Or After a storm

Extender Extender Extender

CODE			
	REV. 1		REV. 1
1 HUB			Frequency
2.16		VISUAL INSPECTION OF THE CONE SUPPORT'S STRUCTURE	Six-monthly
2.1.2	8.1.2		Annually
	8.1.3	VISUAL INSPECTION OF THE MACHINED HUB	Annually
	8.1.4	VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN THE SUPPORT STRUCTURE AND THE CONE	Annually
2.1.1		VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN THE SUPPORT STRUCTURE AND THE HUB	Annually
2 BLA	DES		Frequency
2.2.1	8.2.1	AUDITORY INSPECTION OF EACH BLADE'S AERODYNAMIC NOISE	Six-monthly
	8.2.2	AUDITORY INSPECTION OF MECHANICAL NOISE IN EACH BLADE	Six-monthly
	8.2.3		Six-monthly
	824	VISUAL INSPECTION OF THE BLADE DUST SEALS	Six-monthly
2.2.2		VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE BLADE AND BLADE BEARING	Annually
4.4.4	828	MSUAL INSPECTION OF THE BLADE ROOT	4 years
	8.2.7		Annually
		VISUAL INSPECTION OF BOLTED JOINT BETWEEN EXTENDER AND BLADE BEARING (IF APPLICABLE)	Annually
		VISUAL INSPECTION OF THE EXTENDER (IF APPLICABLE)	4 years
2.1.4		INSPECTION OF THE LIGHTNING TRANSMISSION SYSTEM'S HAMMERS	Annually
3 BLAI			Fraguency
2.3.2		VISUAL INSPECTION OF THE RETAINERS OF THE BLADE BEARINGS	Six-monthly
234		LUBRICATION OF THE BLADE BEARINGS	Six-monthly
2 3.4		VISUAL INSPECTION FOR LEAKS IN THE BLADE BEARINGS' LUBRICATORS	Six-monthly
2.3.1		VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN BLADE BEARING AND HUB	
2.4.2	8.3.5	VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE PIN SUPPORT AND BLADE BEARING PLATE	Annually
2.4.2			Annually
4 PITC	U.5./	MISUAL INSPECTION OF FASTENING NUT BETWEEN THE PIN END AND THE BLADE BEARING PLATE	4 years
4 1110		CHECKING THE ADJUSTMENT OF THE BALLUFS	Frequency
244			Annuelly
2.4.1 A9		VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE PITCH CYLINDER SUPPORTS AND THE HUB	Annually
Ag		VISUAL INSPECTION OF PITCH BLOCK PROTECTION SUPPORT BOLTED JOINTS	Annually
		CHECK THE OPERATION OF THE EMERGENCY SOLENOID VALVES	Annually
		VISUAL INSPECTION OF BOLTED JOINT BETWEEN THE EMERGENCY ACCUMULATOR SUPPORT AND THE HUB	Annually
		VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN THE LEAK TANK AND THE SUPPORT	Annually
		VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE LEAK TANK SUPPORT AND THE HUB	Annually
2.4.4		VISUAL INSPECTION OF THE PITCH SYSTEM BALL JOINT COVER BOLTS	Annually
5 MAIN			Frequency
2.7.4		LUBRICATING THE MAIN SHAFT'S BEARINGS	Six-monthly
	8.5.2	CLEANING OF THE MAIN SHAFT'S GREASE COLLECTION TRAYS	Six-monthly
	8.5.3	VISUAL INSPECTION FOR GREASE LEAKS IN THE MAIN SHAFT'S BEARINGS	Six-monthly
2.7.1	8,5,4	VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE HUB AND THE MAIN SHAFT	Annually
2.7.2	8.5.5	VISUAL INSPECTION OF THE BOLTEO JOINT BETWEEN THE MAIN BEARING HOUSINGS AND THE FRAME	Annually
2.7.6		LUBRICATION OF THE ROTOR'S LOCK BOLTS	Six-monthly
m 10000-000		VISUAL INSPECTION OF THE MAIN SHAFT'S BODY	Annually
6 GEAF			Frequency
2.9.4		VISUAL INSPECTION OF THE GEARBOX'S OIL LEVEL	Six-monthly
		CHECKING FOR ABSENCE OF METAL PARTICLES IN GEARBOX MAGNETIC ROD	Six-monthly
2 9.2		GEARBOX OIL SAMPLE COLLECTION	Six-monthly
2.9.6		INSPECTION AND REPLACEMENT OF THE GEARBOX AIR FILTER	Six-monthly
2.10.3		VISUAL INSPECTION AND CLEANING OF THE GEARBOX EXCHANGERS	Annually
2.10.2		REPLACEMENT OF GEARBOX ON-LINE FILTER	Annually
2.10.5		REPLACEMENT OF GEARBOX OFF-LINE FILTER	Annually
2.10.1		VISUAL INSPECTION FOR LEAKS IN GEARBOX AND LUBRICATION-COOLING SYSTEM	Annually
2.10.6		CHECKING THE GEARBOX PRESSURE SWITCH SETTING (Pos. 9)	Annually
		VISUAL INSPECTION OF GEARBOX COOLING SYSTEM'S HOSES	Annually
2.9.5		GEARBOX OIL CHANGE	2 years
		ECHANICAL ELEMENTS)	Frequency
29.3		AUDITORY INSPECTION OF THE GEARBOX	Six-monthly
2.8.3		INSPECTION FOR GAPS IN THE GEARBOX DAMPING PACKETS	Six-monthly
2.8.1		VISUAL INSPECTION OF BOLTED JOINT BETWEEN TORQUE ARMS AND FRAME	Annually
2.8.2		VISUAL INSPECTION OF BOLTED JOINT BETWEEN TORQUE ARMS AND GEARBOX	Annually
		VISUAL INSPECTION OF THE GEARBOX'S STRUCTURE	Annually
8 BRAH			Fraquency
2.11.1		INSPECTION OF THE BRAKE PADS	Annually
	8.8.3	INSPECTION FOR LEAKS AND BLEEDING THE MAIN BRAKE SYSTEM'S HYDRAULIC CIRCUIT	Annually
2.5.14	8.8.4	CHECKING AND ADJUSTING THE MAIN BRAKE ACCUMULATOR PRE-CHARGE PRESSURE (Pos. 30)	Annually
2.5.17		CHECKING AND ADJUSTING THE MAIN BRAKE'S SAFETY VALVE SETTING (Pos. 93)	Annually
		CHECKING AND ADJUSTING THE MAIN BRAKE'S PRESSURE SWITCH SETTING (Pos. 31)	Annually
9 COUR			Frequency
2.12	8.9.1	VISUAL INSPECTION OF THE HIGH SPEED SHAFT COUPLING	Annually

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10 GENERATOR	Frequency	
2.19.3 9.10.1 LUBRICATING THE GENERATOR'S BEARINGS	Six monthly	
2.13.5 2 B.10.2 CLEANING THE SUP RING BODY	Six-monthly	
2.13.6 8.10.3 REPLACING THE GENERATOR'S AIR FILTER (IF APPLICABLE)	Six-monthly	
B 10.4 CHECKING FOR WEAR OF PHASE BRUSHES	Six-monthly	
B.10.5 CHECKING FOR WEAR OF GROUND BRUSHES     A 14    B.10.6 VISUAL INSPECTION OF BOLTED JOINTS BETWEEN GENERATOR AND FRAME	Six-monthly	
2.13.8B 8.10.7 VISUAL INSPECTION OF THE STATOR'S TERMINAL BOX	Annually Annually	
11. HYPARULIC UNIT	Frequency	
2.5.21 B.11.1 INSPECTION OF THE OIL LEVEL IN THE HYDRAULIC UNIT	Six-monthly	
8.11.2 INSPECTION FOR LEAKS IN THE HYDRAULIC UNIT	Annually	
2.5.16 Bill 3 INSPECTION AND ADJUSTMENT OF THE HYDRAULIC UNIT'S SAFETY VALVE (POS 25)	Annually	
A 25 B 11.4 INSPECTION AND REPLACEMENT OF THE HYDRAULIC UNIT'S AIR FILTER	Six-monthly	
2.5.12 8.11.5 REPLACEMENT OF THE HYDRAULIC UNIT'S PRESSURE FILTER 2.5.3 B.11.6 CHECKING AND ALXIUSTING PITCH ACCUMULATOR PRE-CHARGE PRESSURE (Pos. 24, 74, 79, 87, 93 and 94)	Annually Annually	
8.11.7 VISUAL INSPECTION OF NACELLE AND ROTOR HYDRAULIC CIRCUIT HOSES	Annually	
8 11.8 VISUAL INSPECTION AND CLEANING OF HYDRAULIC UNIT EXCHANGER (IF APPLICABLE)	Annually	
2.5.22 8 11.10 REPLACING HYDRAULIC UNIT OIL	5 years	
2.5.2 8.11.11 DRAIN THE HUB'S LEAK TANK	Six-monthly	
2.5.1 8.11.12 INSPECTION FOR HYDRAULIC OIL LEAKS IN THE ROTOR	Annually	
2.56 B.11.13 HUB PRESSURE FILTER REPLACEMENT	Annually	
A 132 B 11.14 INSPECTION FOR HYDRAULIC OIL LEAKS IN THE ROTARY JOINT 8.11.15 INSPECTING AND ADJUSTING PRESSURE SWITCH SETTINGS OF THE PITCH BLOCKS (Pos. 91)	Annually Annually	
12. YAW SYSTEM	Frequency	
2.15.2.4 B.12.1 LUBRICATION OF THE YAW SYSTEM'S SLIDE ELEMENTS	Six-monthly	
2.16.2.5 8.12.2 LUBRICATION OF THE YAW SYSTEM'S RING GEAR	Six-menthly	
8.12.3 INDIRECT MEASUREMENT OF WEAR ON THE YAW SYSTEM'S RADIAL PETPS	Annually	
2.16 2.2 8.12.4 AUDITORY INSPECTION OF THE YAW SYSTEM	Six-monthly	
B.12.5 VISUAL INSPECTION OF YAW SYSTEM'S PETP WEAR DUST	Six-monthly	
8 12 6 VISUAL INSPECTION OF THE YAW SYSTEM'S RING GEAR	Annually	
2.15.5 8.12.7 INSPECTION FOR OIL LEAKS IN GEARS A.7 8.12.8 VISUAL INSPECTION OF THE YAW SYSTEM'S TURN-COUNTER	Annually Annually	
2.15.1 8.12.9 VISUAL INSPECTION OF BOLTED JOINTS IN THE GEAR MOTORS	Annually	
2.16.2.1 8.12.12 VISUAL INSPECTION OF BOLTED JOINT BETWEEN YAW BASE AND TOWER	Annually	
8 12.13 VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN YAW SYSTEM CLAMPS (AND SPACERS) AND THE FRAME	Annually	
6.12.14 VISUAL INSPECTION OF BOLTS OF HORIZONTAL STOP PLATES (PASSIVE YAW SYSTEM ONLY)	Annually	
2.16.2.6 0.12.15 INSPECTION FOR LEAKS IN THE YAW SYSTEM'S HYDRAULIC CIRCUIT	Annually	ACTIVE YAW
8.12.16 CHECKING AND ADJUSTING THE YAW BRAKE REDUCTION VALVE'S SETTING	Annually	ACTIVE YAW ACTIVE YAW
A 16 8 12.17 CHECKING AND ADJUSTING THE YAW BRAKE ACCUMULATOR PRE-CHARGE PRESSURE (Pos. 107) 2.16.2.7 B 12.18 CHECKING THE YAW BRAKE'S PRESSURE IN RETENTION MODE	Annually Annually	ACTIVE YAW
8.12.19 VISUAL INSPECTION OF THE POWER CABLE'S LOOPS	Annually	ACIIVE IAM
8.12.26 ADJUSTMENT OF THE MECHANICAL STACKS IN PASSIME WELLS	Annually	
2.15.6 8.12.27 INSPECTION OF OIL LEVEL IN GEARS	2 years	
8.12.29 VISUAL INSPECTION OF THE YAW SYSTEM'S RING GEAR COVERS	Annually	
13 COVER, MACELLE STRUCTURE AND HTK/LTK	Frequency	
8.13.1 VISUAL INSPECTION OF THE DESCENT DEVICE'S SAFETY EYEBOLT 2.18.1 8.13.2 VISUAL INSPECTION OF THE NACELLE'S FIBER COVER	Annually Annually	If eyebolt is fitted.
2.18.2 8.13.3 VISUAL INSPECTION OF THE NACELLE'S FIGER COVER  2.18.2 8.13.3 VISUAL INSPECTION OF THE NACELLE'S ACOUSTIC INSULATION	Annually	
8.13.6 VISUAL INSPECTION OF BOLTED JOINTS BETWEEN NACELLE ROOF PROFILES	Annually	Only accessible ones, not those of the trans
2.18.3 8.13.7 VISUAL INSPECTION OF THE NACELLE ROOF'S HANDRAIL	Each Use	0.03
8.13.8 VASUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE OUTSIDE HANDRAIL AND THE NACELLE ROOF	Each Use	
8.13.12 REPLACING THE TRANSFORMER AIR INLET GRILLE FILTERS (IF APPLICABLE)	Annually	Desert and corrosive
8 13.13 VISUAL INSPECTION OF THE LIK AIR HEATERS' FASTENING ELEMENTS (IF APPLICABLE)	Annually	LTK
<ul> <li>2.19.1 8.13.14 REPLACEMENT OF HTK AIR INLET GATE FILTERS (IF APPLICABLE)</li> <li>8.13.16 MISUAL INSPECTION OF DEFLECTOR FASTENING TO COVER PANELS (IF APPLICABLE)</li> </ul>	Annually	HIK HIK
8. 15. 16 VISUAL INSPECTION OF DEFLECTOR FASTENING TO COVER PANELS (IF APPLICABLE)  14 TOWER	2 years Frequency	HIK
2.27.7 8.14.1 CHECKING THE LAST INSPECTION DATE OF THE LIFELINE	Six-monthly	
A.1 B 14.2 VISUAL INSPECTION OF THE SAFETY SIGNS IN THE TOWER AND NACELLE	Annually	
8.14.3 LIFELINE CONDITION INSPECTION		
8.14.3 LIFELINE CONDITION INSPECTION 2.27.2 B.14.4 VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN TOWER SECTIONS	Annually Annually Annually	
8.14.3 LEFELNE CONDITION INSPECTION 2.27.2 B.14.4 VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN TOWER SECTIONS B.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS	Annually Annually Annually Annually	
8.14.3 LIFELINE CONDITION INSPECTION 2.27.2 B.14.4 VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN TOWER SECTIONS B.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS B.14.6 VISUAL INSPECTION OF THE FOUNDATION SECTION'S FLANGE	Annually Annually Annually Annually Annually	To be carried out together with transformer to
8.14.3 LEFELNE CONDITION INSPECTION 2.77.2 HA 4. VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN TOWER SECTIONS 8.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS 8.14.5 VISUAL INSPECTION OF THE FOUNDATION SECTION'S FLANGE 2.77.1 8.14.7 VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE FOUNDATION SECTION AND THE LOWER TOWER SECTION 1.	Annually Annually Annually Annually Annually Annually Annually	To be carried out together with transformer to To be carried out together with transformer to
8.14.3 LEFELNE CONDITION INSPECTION 2.27.2 B11.4 VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN TOWER SECTIONS 8.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS 8.14.6 VISUAL INSPECTION OF THE FOUNDATION SECTION'S FLANGE 2.27.1 B11.7 VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE FOUNDATION SECTION AND THE LOWER TOWER SECTION 8.14.8 VISUAL INSPECTION OF FOUNDATION FOOTING PEDESTAL	Annually Annually Annually Annually Annually Annually Annually Annually	
8.14.3 LEFLINE CONDITION INSPECTION 2.77.2 B114 VISUAL INSPECTION OF THE BOLITED JOINTS BETWEEN TOWER SECTIONS 8.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS 8.14.5 VISUAL INSPECTION OF THE FOUNDATION SECTION'S FLANGE 2.77.1 B147 VISUAL INSPECTION OF THE BOLITED JOINT BETWEEN THE FOUNDATION SECTION AND THE LOWER TOWER SECTION 8.14.8 VISUAL INSPECTION OF THE BOLITED JOINT BETWEEN THE FOUNDATION AND THE FOUNDATION FOOTING PEDESTAL 8.14.11 VISUAL INSPECTION OF THE TOWER ACCESS DOORS HINGES 8.14.11 VISUAL INSPECTION OF THE TOWER ACCESS DOORS HINGES	Annually Annually Annually Annually Annually Annually Annually	To be carried out together with transformer to
8.14.3 LEFLINE CONDITION INSPECTION 2.27.2 B14.4 VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN TOWER SECTIONS 8.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS 8.14.6 VISUAL INSPECTION OF THE FOUNDATION SECTION'S FLANGE 2.27.1 B11.7 VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE FOUNDATION SECTION AND THE LOWER TOWER SECTION 8.14.9 VISUAL INSPECTION OF THE BOLTED JOINT DETWEEN THE FOUNDATION SECTION AND THE FOUNDATION FOOTING'S PEDESTAL 8.14.11 VISUAL INSPECTION OF THE TOWER ACCESS DOOR'S HINGES 8.14.12 VISSPECTION AND REPLACEMENT OF THE TOWER ACCESS DOOR FILTER (IF APPLICABLE)	Annually	
8.14.3 LEFLINE CONDITION INSPECTION 2.77.2 BETWEEN TOWER SECTIONS 8.14.4 VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN TOWER SECTIONS 8.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS 8.14.5 VISUAL INSPECTION OF THE FOUNDATION SECTION'S FLANGE 8.14.7 VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE FOUNDATION SECTION AND THE LOWER TOWER SECTION 8.14.8 VISUAL INSPECTION OF THE GAPS BETWEEN THE FOUNDATION SECTION AND THE FOUNDATION FOOTING'S PEDESTAL 8.14.19 VISUAL INSPECTION OF THE GAPS BETWEEN THE FOUNDATION SECTION AND THE FOUNDATION FOOTING'S PEDESTAL 8.14.12 INSPECTION OF THE TOWER ACCESS DOOR'S HINGES 8.14.12 INSPECTION AND REPLACEMENT OF THE TOWER ACCESS DOOR FILTER (IF APPLICABLE) 8.14.15 VISUAL INSPECTION OF WELLED SEAMS ON THE FRAME OF THE TOWER ACCESS DOOR	Annually	To be carried out together with transformer to
8.14.3 LEFLINE CONDITION INSPECTION 2.77.2 B114 VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN TOWER SECTIONS 8.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS 8.14.5 VISUAL INSPECTION OF THE FOUNDATION SECTION'S FLANGE 2.77.1 8.14.7 VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE FOUNDATION SECTION AND THE LOWER TOWER SECTION 8.14.8 VISUAL INSPECTION OF FOUNDATION FOOTING PEDESTAL 8.14.19 VISUAL INSPECTION OF THE TOWER ACCESS DOORS HINGES 8.14.11 VISUAL INSPECTION OF THE TOWER ACCESS DOOR FILTER (IF APPLICABLE) 2.27.3 8.14.15 VISUAL INSPECTION OF THE TOWER ACCESS DOOR FILTER (IF APPLICABLE) 2.27.3 8.14.15 VISUAL INSPECTION OF WELDED SEAMS ON THE FRANCE OF THE TOWER ACCESS DOOR 15. GROUNDING SYSTEM	Annually Topics Traquency	To be carried out together with transformer to
8.14.3 LEFLINE CONDITION INSPECTION 2.77.2 B14.4 VISUAL INSPECTION OF THE BOLITED JOINTS BETWEEN TOWER SECTIONS 8.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS 8.14.5 VISUAL INSPECTION OF THE FOUNDATION SECTIONS FLANGE 1.14.7 VISUAL INSPECTION OF THE BOLITED JOINT BETWEEN THE FOUNDATION SECTION AND THE LOWER TOWER SECTION 8.14.9 VISUAL INSPECTION OF FOUNDATION FOOTING PEDESTAL 8.14.19 VISUAL INSPECTION OF THE GAPS BETWEEN THE FOUNDATION SECTION AND THE FOUNDATION FOOTING'S PEDESTAL 8.14.11 VISUAL INSPECTION OF THE GAPS BETWEEN THE FOUNDATION SECTION AND THE FOUNDATION FOOTING'S PEDESTAL 8.14.12 INSPECTION OF THE GAPS BETWEEN THE FOUNDATION FOOTING'S PEDESTAL 15. GROUNDING SYSTEM 15. GROUNDING SYSTEM 16.11 INSPECTION OF THE GROUND CABLES BETWEEN TOWER SECTIONS	Annually Enterprise Straguency Annually Annually Annually Annually Annually Annually Annually Annually	To be carried out together with transformer to
8.14.3 LEFLINE CONDITION INSPECTION 2.77.2 B14.4 VISUAL INSPECTION OF THE BOLITED JOINTS BETWEEN TOWER SECTIONS 8.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS 8.14.5 VISUAL INSPECTION OF THE FOUNDATION SECTION'S FLANGE 2.72.1 B14.7 VISUAL INSPECTION OF THE BOLITED JOINT BETWEEN THE FOUNDATION SECTION AND THE LOWER TOWER SECTION 8.14.8 VISUAL INSPECTION OF FOUNDATION FOOTING PEDESTAL 8.14.9 VISUAL INSPECTION OF THE GAPS BETWEEN THE FOUNDATION SECTION AND THE FOUNDATION FOOTING'S PEDESTAL 8.14.11 VISUAL INSPECTION OF THE TOWER ACCESS DOOR'S HINGES 8.14.12 VISPECTION AND REPLACEMENT OF THE TOWER ACCESS DOOR FILTER (IF APPLICABLE) 2.72.3 B14.15 VISUAL INSPECTION OF WELDED SEAMS ON THE FRAME OF THE TOWER ACCESS DOOR 15. GROUNDING SYSTEM 2.10.3 B15.1 INSPECTION OF THE GROUND CABLES BETWEEN TOWER SECTIONS B15.2 VISUAL INSPECTION OF THE TRANSFORMER GROUND CABLE	Annually	To be carried out together with transformer to
8.14.3 LEFLINE CONDITION INSPECTION 2.77.2 B14.4 VISUAL INSPECTION OF THE BOLITED JOINTS BETWEEN TOWER SECTIONS 8.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS 8.14.5 VISUAL INSPECTION OF THE FOUNDATION SECTIONS FLANGE 1.14.7 VISUAL INSPECTION OF THE BOLITED JOINT BETWEEN THE FOUNDATION SECTION AND THE LOWER TOWER SECTION 8.14.9 VISUAL INSPECTION OF FOUNDATION FOOTING PEDESTAL 8.14.19 VISUAL INSPECTION OF THE GAPS BETWEEN THE FOUNDATION SECTION AND THE FOUNDATION FOOTING'S PEDESTAL 8.14.11 VISUAL INSPECTION OF THE GAPS BETWEEN THE FOUNDATION SECTION AND THE FOUNDATION FOOTING'S PEDESTAL 8.14.12 INSPECTION OF THE GAPS BETWEEN THE FOUNDATION FOOTING'S PEDESTAL 15. GROUNDING SYSTEM 15. GROUNDING SYSTEM 16.11 INSPECTION OF THE GROUND CABLES BETWEEN TOWER SECTIONS	Annually Enterprise Straguency Annually Annually Annually Annually Annually Annually Annually Annually	To be carried out together with transformer to
8.14.3 LEFLINE CONDITION INSPECTION 2.77.2 B114 VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN TOWER SECTIONS 8.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS 8.14.6 VISUAL INSPECTION OF THE FOUNDATION SECTION'S FLANGE 2.27.1 B14.7 VISUAL INSPECTION OF THE FOUNDATION SECTION'S FLANGE 8.14.8 VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE FOUNDATION SECTION AND THE LOWER TOWER SECTION 8.14.8 VISUAL INSPECTION OF THE GAPS BETWEEN THE FOUNDATION SECTION AND THE FOUNDATION FOOTING'S PEDESTAL 8.14.11 VISUAL INSPECTION OF THE TOWER ACCESS DOOR'S HINGES 8.14.12 VISPECTION AND REPLACEMENT OF THE TOWER ACCESS DOOR FILTER (IF APPLICABLE) 2.27.3 B.14.15 VISUAL INSPECTION OF WELDED SEAMS ON THE FRAME OF THE TOWER ACCESS DOOR 15GROUNDING SYSTEM 2.30.3 B.15.1 INSPECTION OF THE GROUND CABLES BETWEEN TOWER SECTIONS B.15.2 VISUAL INSPECTION OF THE TRANSFORMER GROUND CABLE 8.16.3 VISUAL INSPECTION OF THE BROUND CABLES BETWEEN TOWER SECTIONS 9.15.4 VISUAL INSPECTION OF THE GROUND CABLES BETWEEN TOWER SECTIONS 9.15.4 VISUAL INSPECTION OF THE GROUND CABLES IN THE FOUNDATION 16. EMPERGENCY SERIES	Annually Frequency	To be carried out together with transformer to
8.14.3 LEFLINE CONDITION INSPECTION 2.77.2 B14.4 VISUAL INSPECTION OF THE BOLTED JOINTS BETWEEN TOWER SECTIONS 8.14.5 VISUAL INSPECTION OF THE FLANGE-RING WELD SEAMS ON THE TOWER SECTION JOINTS 8.14.5 VISUAL INSPECTION OF THE FOUNDATION SECTIONS FLANGE 2.27.1 B14.7 VISUAL INSPECTION OF THE BOLTED JOINT BETWEEN THE FOUNDATION SECTION AND THE LOWER TOWER SECTION 8.14.9 VISUAL INSPECTION OF THE GAPS BETWEEN THE FOUNDATION SECTION AND THE FOUNDATION FOOTINGS PEDESTAL 8.14.19 VISUAL INSPECTION OF THE GAPS BETWEEN THE FOUNDATION SECTION AND THE FOUNDATION FOOTINGS PEDESTAL 8.14.11 VISUAL INSPECTION OF THE GAPS BETWEEN THE FOUNDATION SECTION AND THE FOUNDATION FOOTINGS PEDESTAL 8.14.12 INSPECTION AND REPLACEMENT OF THE TOWER ACCESS DOOR FILTER (IF APPLICABLE) 2.27.3 8.14.15 VISUAL INSPECTION OF WELDED SEAMS ON THE FRAME OF THE TOWER ACCESS DOOR 15. GROUNDING SYSTEM 2.30.3 8.15.1 INSPECTION OF THE GROUND CABLES BETWEEN TOWER SECTIONS 8.15.2 VISUAL INSPECTION OF THE HIGH YOLTAGE SWITCHGEAR'S GROUND CABLE 8.15.3 VISUAL INSPECTION OF THE HIGH YOLTAGE SWITCHGEAR'S GROUND CABLE 8.15.4 VISUAL INSPECTION OF THE GROUND CABLES IN THE FOUNDATION 16. EMERGENCY SERIES 9.16.1 INSPECTION OF THE GROUND CABLES IN THE FOUNDATION 9.16.1 INSPECTION OF THE GROUND CABLES IN THE FOUNDATION 9.16.1 INSPECTION OF THE GROUND CABLES IN THE FOUNDATION 9.16.1 INSPECTION OF THE GROUND CABLES IN THE FOUNDATION 9.16.1 INSPECTION OF THE GROUND CABLES IN THE FOUNDATION	Annually	To be carried out together with transformer to
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## SB – Service Bulletin SB B8300903 R1

Doc.: B8300903 Edición 1

Hoja: 13 de 16

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To be carried out by authorized staff. To be carried out by authorized staff.
                  18.-TRANSFORMER AND SWITCHGEAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Frequency
                                                                                       ANSFORMER AND SWITCHGEAR

9 18 1 VISUAL INSPECTION OF THE TRANSFORMER NEUTRAL CABLE (LOW VOLTAGE SIDE)

8.18.2 VISUAL INSPECTION OF THE TRANSFORMER'S FASTENERS

8.18.3 OHECKING THE HIGH VOLTAGE SWITCHGEAR'S MANUAL MANEUVERS

8.18.3 CHECKING THE CPERATION OF THE SWITCHGEAR TRIP BUTTON (ASO) IN TOP

8.18.8 CHECKING THE OPERATION OF THE TRANSFORMER FUSE MICROSWITCHES

9.18.9 VISUAL INSPECTION OF THE TRANSFORMER'S AUTOMATIC VALVES

8.18.11 CHECKING THE SWITCHGEAR TRIP THROUGH LEAK TO NEUTRAL RELAY

8.18.11 CHECKING THE DEPERATION OF THE LIMIT SWITCHES ON TRANSFORMER ACCESS DOORS

8.18.12 CHECKING THE OPERATION OF THE LIMIT SWITCHES ON TRANSFORMER ACCESS DOORS

8.18.13 VISUAL INSPECTION OF THE TRANSFORMER'S CABLES, TERMINALS AND LY FUSES

8.18.14 VISUAL INSPECTION OF THE TRANSFORMER'S TERMINALS AND HY DELTA CONNECTION

8.18.15 TRANSFORMER CLEANING AND FINAL CHECKS
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Annually
Froquoncy
2 years
Annually
2 years

    8.18.14 VISUAL INSPECTION OF THE TRANSFORMER'S TERMINALS AND
    8.18.15 TRANSFORMER CLEANING AND FINAL CHECKS

19.- LIGHTING
    8.19.2 INSPECTION OF THE EMERGENCY LIGHTS IN THE TOWER

A.10 8.19.3 INSPECTION OF THE BEACON SYSTEM
    8.19.4 INSPECTION OF THE BEACON SYSTEM'S UPS (IF APPLICABLE)
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Six-monthly
Six-monthly
         20.5 MP
2.32.2 8 20.1 VISUAL INSPECTION OF THE SMP'S OPERATION
2.32.8 8.20.2 INSPECTION OF SMP GROUND CONNECTIONS
2.32.6 8.20.3 VISUAL INSPECTION OF THE SMP ACCELERATORS
2.32.1 8.20.4 DOWNLOADING DATA FROM THE SMP TO ANALYZE VIBRATIONS
21.. HOIST
21. PRAVE CREATION OF THE SMP TO ANALYZE VIBRATIONS
21. PRAVE CREATION OF THE SMP TO THE SMP T
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Annually
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Each Use
                                                                             ISTAL BRAKE OPERATION CHECK

8.21.1 BRAKE OPERATION CHECK

9.21.2 VISUAL INSPECTION AND CHAIN LUBRICATION

9.21.3 LOAD LIMITER OPERATION CHECK

9.21.9 VISUAL INSPECTION OF THE HOIST CHAIN'S MECHANICAL END STOP

8.21.9 VISUAL INSPECTION OF THE HOIST'S CHAIN'S MECHANICAL END STOP

8.21.10 VISUAL INSPECTION OF THE HOIST'S SAFETY HOOK AND TAB

8.21.11 VISUAL INSPECTION OF THE HOIST'S CHAIN'S GAFETY ANCHOR

8.21.12 VISUAL INSPECTION OF THE HOIST CHAIN'S SAFETY ANCHOR

8.21.13 CHECKING FOR THE PRESENCE OF THE HOIST SHAKE SAFETY SEAL

8.21.16 VISUAL INSPECTION OF THE BRIDGE CRAINE TRAME

9.21.17 VISUAL INSPECTION OF THE BRIDGE CRAINE TRAME

9.21.17 VISUAL INSPECTION OF THE BRIDGE CRAINE TRAME

9.21.18 VISUAL INSPECTION OF THE BRIDGE CRAINE TROLLEY'S WELDED STRUCTURE

8.21.19 VISUAL INSPECTION OF THE BRIDGE CRAINE TROLLEY'S WELDED STRUCTURE

8.21.19 VISUAL INSPECTION OF THE BRIDGE CRAINE TROLLEY'S WELDED STRUCTURE
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Six-monthly
Six-monthly
Six-monthly
Each Use
            72. OTHERS
            8.22.1 MACHINE CLEANING
2.24.1 8.22.2 CHECKING LAST INSPECTION DATE OF GROUND EXTINGUISHER (IF APPLICABLE BY CONTRACT)
2.24.2 8.23.2 HECKING LAST INSPECTION DATE OF NACELLE EXTINGUISHER (IF APPLICABLE BY CONTRACT)
4.5 8.22.5 CHECKING LAST INSPECTION DATE OF NACELLE EXTINGUISHER (IF APPLICABLE BY CONTRACT)
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2 years
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Frequency
Each Use
Annually
Annually
Annually
            8 23 1 CHECKING THE OPERATION OF THE SMOKE DETECTOR 2.17.2.1 8 23 2 CHECKING THE NRG SYSTEM
8.2.1 CHECKINS THE PERSONNEL STREM
21.2.1 8.2.2 CHECKINS THE NRS SYSTEM
24. AVANTE LEVATOR
8.2.1 CHECKING BLOCSTOP DEVICE OPERATION
8.2.1 INSPECTION AND CHECKING THE OPERATION OF THE LOWER LEVER LIMIT SWITCH
8.2.3 INSPECTION AND CHECKING THE OPERATION OF THE UPPER LIMIT SWITCH LEVER
8.2.4 VISUAL INSPECTION OF THE ORIVE CABLE GUIDES
8.2.5 VISUAL INSPECTION OF THE HOISTING CABLES
8.2.7 VISUAL INSPECTION OF THE SAFETY CABLE
8.2.9 VISUAL INSPECTION OF THE SAFETY CABLE
8.2.9 VISUAL INSPECTION OF THE SAFETY CABLE
8.2.10 VISUAL INSPECTION OF THE SAFETY CABLE
8.2.10 VISUAL INSPECTION OF THE ELEVATOR'S SUPPORT BEAM
8.2.10 VISUAL INSPECTION OF THE ELEVATOR'S SUPPORT BEAM
8.2.11 VISUAL INSPECTION OF THE ELEVATOR'S SAFETY SIGNS
8.2.1.1 VISUAL INSPECTION OF THE ELEVATOR'S SAFETY SIGNS
8.2.1.1 VISUAL INSPECTION OF THE ELEVATOR'S DEFICIENCY BUTTONS
8.2.1.1 VISUAL INSPECTION OF THE ELEVATOR'S DEFICIENCY BUTTONS
8.2.1.1 VISUAL INSPECTION OF THE BUEVATOR'S DEFICIENCY BUTTONS
8.2.1.14 VISUAL INSPECTION OF THE RELEVATOR'S DEFICIENCY BUTTONS
8.2.1.14 VISUAL INSPECTION OF THE PROPERTY SERVED BUTTONS
8.2.1.15 INSPECTION OF THE RELEVATOR'S DEFICIENCY BUTTONS
8.2.1.16 VISUAL INSPECTION OF THE BUEVATOR'S DEFICIENCY BUTTONS
8.2.1.16 VISUAL INSPECTION DEFICIENCY BUTTONS
8.2.1.17 VISUAL INSPECTION DEFICIENCY BUTTONS
8.2.1.18 VISUAL INSPECTION DEFICIENCY BUTTONS
8.2.1.18 VISUAL INSPECTION DEFICIENCY BUTTONS
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Each Use
8.24.14 VISUAL INSPECTION OF AUCHURING PURITS INSIDE THE ELEVATOR GOVERN
9.24.16 ELEVATOR
8.25.1 VISUAL INSPECTION OF THE HOISTING CAELES
8.26.2 VISUAL INSPECTION OF GUIDE RAILS
8.26.2 VISUAL INSPECTION OF GUIDE RAILS
8.26.4 VISUAL INSPECTION OF GUIDE SUPPORT PROFILES
8.26.4 VISUAL INSPECTION OF THE UPPER PULLEY AND BEAM FASTENING
8.25.5 VISUAL INSPECTION OF THE UPPER PULLEY AND BEAM FASTENING
8.25.6 VISUAL INSPECTION OF THE UPPER PULLEY AND BEAM FASTENING
8.25.7 SLEVATOR BRAKE OPERATION CHECK AND INSPECTION
8.25.8 INSPECTION AND CHECKING THE OPERATION OF THE UPPER LIMIT SWITCH
8.25.9 INSPECTION AND CHECKING THE OPERATION OF THE LOWER LIMIT SWITCH
9.26.10 VISUAL INSPECTION OF THE ELEVATOR'S SAFETY SIGNS
8.26.11 VISUAL INSPECTION OF THE ELEVATOR'S SAFETY CATCH LEVER
8.26.2 INSPECTION OF THE ELEVATOR'S SAFETY CATCH LEVER
8.26.3 INSPECTION OF GROUND CARINET OVERVOLTAGE DISCHARGERS (ONLY DEM)
8.26.3 INSPECTION OF CONVENTER COOLING HOSES (DEM ONLY)
8.26.3 INSPECTION OF CONVENTER COOLING EXCHANGER (OFM ONLY)
8.26.3 INSPECTION OF THE CONVENTER COOLING EXCHANGER (OFM ONLY)
8.26.3 INSPECTION OF THE CONVENTER COOLING EXCHANGER (OFM ONLY)
8.26.5 REPLACEMENT OF THE CONVENTER COOLING EXCHANGER (OFM ONLY)
8.26.5 REPLACEMENT OF THE CONVENTER SIN ELECTRICAL CABINETS
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If this master of tasks is changed by the customer, those changes will be recorded on corresponding Annex D.

**Note:** This Preventive Rev 1 was created once the RCM study of the Wind Turbine's systems was completed, which means there are many changes compared with Rev 0. Due to the high number of changes, it was considered impractical to include those changes in this document even though in subsequent revisions, changes will be introduced since they there will not be as many of them.