

KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING				REMARK
				MEASURING RANGE/OUTPUT MIN	NOM	MAX	TIME DELAY	
MBB10CG005	AXIAL DISPLACEMENT, POWER TURBINE PROXIMITOR	ALARM H1	mm	-1 - +1mm/ 4-20mA	***	-	-	ABS. MEASURE REL. BEARING. *** +0.2mm+Bearing Clearance FROM NORMAL RUNNING POSITION. Bearing Clearance-0.5mm
MBB10CG005	AXIAL DISPLACEMENT, POWER TURBINE PROXIMITOR	ALARM L1	mm	-1 - +1mm/ 4-20mA	***	-	-	ABS. MEASURE REL. BEARING. *** -0.2mm FROM NORMAL RUNNING POSITION.
MBB10CG005	AXIAL DISPLACEMENT, POWER TURBINE PROXIMITOR	TRIP L2	mm	-1 - +1mm/ 4-20mA	***	-	-	ABS. MEASURE REL. BEARING. ***-0.3mm FROM NORMAL RUNNING POSITION.
MBB10CG010	ROTOR ANGLE PROXIMITOR			-- / -				
MBB10CP005	EXHAUST GAS PRESSURE PRESSURE TRANSMITTER	CONTROL		80- 120kPa(a)/ 4-20 mA				
MBB10CP010	EXHAUST GAS PRESSURE DIFF. PRESSURE TRANSMITTER	ALARM H1	kPa	0- 12kPa/ 4-20 mA		4		
MBB10CP010	EXHAUST GAS PRESSURE DIFF. PRESSURE TRANSMITTER	TRIP H H2	kPa	0- 12kPa/ 4-20 mA		5		
MBB10CS005	POWER TURBINE SPEED PROXIMITOR	TRIP	rpm	0- 10000rpm/ 0.0-10.0V		8662		0-10000Hz SIGNAL NAME IN COMPUTER: MBB10F S001
MBB10CS005	POWER TURBINE SPEED PROXIMITOR	TRIP L1	rpm	0- 10000rpm/ 0.0-10.0V		6960		GCB TRIP AND DELAYED TURBINE TRIP
MBB10CS010	POWER TURBINE SPEED PROXIMITOR	TRIP	rpm	0- 10000rpm/ 0.0-10.0V		8662		0-10000Hz SIGNAL NAME IN COMPUTER: MBB10F S001
MBB10CS010	POWER TURBINE SPEED PROXIMITOR	TRIP L1	rpm	0- 10000rpm/ 0.0-10.0V		6960		GCB TRIP AND DELAYED TURBINE TRIP
MBB10CT005	EXHAUST AIR TEMPERATURE 1 THERMOCOUPLE	TRIP HH	°C	300- 650°C/ -		-93°C	10 s	HH T7 MIN TO AVERAGE: 2/3 ELEMENTS IN ONE OF 8 PROBES IN STATION 51 INDICATE TOO HIGH DIFFERENCE, COMPARED TO RESPECTIVE RING AVERAGE. (MBB10EZ901ZT12). MIXED OPERATION OR DURING FUEL CHANGE.
MBB10CT005	EXHAUST AIR TEMPERATURE 1 THERMOCOUPLE	ALARM H	°C	300- 650°C/ -		-37°C	5 s	HIGH T7MIN TO AVERAGE. DIFFERENCE BETWEEN INDIVIDUAL TEMPERATURE TO RING AVERAGE TEMPERATURE. (MBB10EM901ZA02).
MBB10CT005	EXHAUST AIR TEMPERATURE 1 THERMOCOUPLE	TRIP HH	°C	300- 650°C/ -		+595°C	0 s	HH T7 AVERAGE ST51. THE T7 AVERAGE IN STATION 51 IS HIGHER THAN ACCEPTABLE. (MBB10FT901ZT01)
MBB10CT005	EXHAUST AIR TEMPERATURE 1 THERMOCOUPLE	ALARM H	°C	300- 650°C/ -		+37°C	5 s	HIGH T7MAX TO AVERAGE. DIFFERENCE BETWEEN INDIVIDUAL TEMPERATURE TO RING AVERAGE TEMPERATURE. (MBB10EM901ZA01).
MBB10CT005	EXHAUST AIR TEMPERATURE 1 THERMOCOUPLE	TRIP HH	°C	300- 650°C/ -		dt-100°	1 s	HH T7 DECREASE RATE. THE T7 AVERAGE IN STATION 51 HAS DECREASED ABNORMALLY FAST. (MBB10EZ901ZT13)
MBB10CT005	EXHAUST AIR TEMPERATURE 1 THERMOCOUPLE	ALARM H	°C	300- 650°C/ -		+585°C	0 s	T7 AVERAGE ST51 HIGH. THE AVERAGE TEMPERATURE OF STATION 51 (24 INDIVIDUALS) IS HIGHER THAN SETTING . (MBB10FT901>H)

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	YAMAMA CEMENT	MBB, MBJ, MBT
Checked by Andreas Karlsson 2006-11-22	Rev	05.04.11	Order no B4516	Archive -
Appr. by Nicklas Söderholm 2006-11-22	Latest rev.	06.11.13	Doc. no	Lang.
Prepared by S.MALMLÖV	Rev	07.01.12	2046040	
SETTING LIST			SIEMENS	
			Sheet	1
			Tot.	28

KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING		MEASURING RANGE/OUTPUT		REMARK
				MIN	NOM	MAX	TIME DELAY	
MBB10CT005	EXHAUST AIR TEMPERATURE 1 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	+93°C	-	10 s	HH T7 MAX TO AVERAGE: 2/3 ELEMENTS IN ONE OF 8 PROBES IN STATION 51 INDICATE TOO HIGH DIFFERENCE, COMPARED TO RESPECTIVE RING AVERAGE. (MBB10EZ901ZT11). MIXED OPERATION OR DURING FUEL CHANGE.
MBB10CT005	EXHAUST AIR TEMPERATURE 1 THERMOCOUPLE	ALARM H	°C	300- 650°C/-	+30°C	-	10 s	T7 RING 3 AVERAGE HIGH. DIFFERENCE BETWEEN RING 3 AVERAGE TO T7 AVERAGE. A CONDITION IS CLOSED BY-PASSED VALVES. (MBB10EM901ZA03).
MBB10CT005	EXHAUST AIR TEMPERATURE 1 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	+53°C	-	10 s	HH T7 MAX TO AVERAGE: 2/3 ELEMENTS IN ONE OF 8 PROBES IN STATION 51 INDICATE TOO HIGH DIFFERENCE, COMPARED TO RESPECTIVE RING AVERAGE. (MBB10EZ901ZT11)
MBB10CT005	EXHAUST AIR TEMPERATURE 1 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	-53°C	-	10 s	HH T7 MIN TO AVERAGE: 2/3 ELEMENTS IN ONE OF 8 PROBES IN STATION 51 INDICATE TOO HIGH DIFFERENCE, COMPARED TO RESPECTIVE RING AVERAGE. (MBB10EZ901ZT12).
MBB10CT005	EXHAUST AIR TEMPERATURE 1 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	-63°C	-	10 s	HH T7 MIN TO AVERAGE: 2/3 ELEMENTS IN ONE OF 8 PROBES IN STATION 51 INDICATE TOO HIGH DIFFERENCE, COMPARED TO RESPECTIVE RING AVERAGE. (MBB10EZ901ZT12). WHEN STEAM OR WATER IS INJECTED.
MBB10CT005	EXHAUST AIR TEMPERATURE 1 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	+63°C	-	10s	HH T7 MAX TO AVERAGE: 2/3 ELEMENTS IN ONE OF 8 PROBES IN STATION 51 INDICATE TOO HIGH DIFFERENCE, COMPARED TO RESPECTIVE RING AVERAGE. (MBB10EZ901ZT11). WHEN STEAM OR WATER IS INJECTED.
MBB10CT010	EXHAUST AIR TEMPERATURE 2 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	+63°C	-	10 s	HH T7 MAX TO AVERAGE: 2/3 ELEMENTS IN ONE OF 8 PROBES IN STATION 52 INDICATE TOO HIGH DIFFERENCE, COMPARED TO RESPECTIVE RING AVERAGE. (MBB10EZ911ZT11). WHEN STEAM OR WATER IS INJECTED.
MBB10CT010	EXHAUST AIR TEMPERATURE 2 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	-93°C	-	10 s	HH T7MIN TO AVERAGE: 2/3 ELEMENTS IN ONE OF 8 PROBES IN STATION 52 INDICATE TOO HIGH DIFFERENCE, COMPARED TO RESPECTIVE RING AVERAGE. (MBB10EZ911ZT12). MIXED OPERATION OR DURING FUEL CHANGE.
MBB10CT010	EXHAUST AIR TEMPERATURE 2 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	+93°C	-	10 s	HH T7MAX TO AVERAGE: 2/3 ELEMENTS IN ONE OF 8 PROBES IN STATION 52 INDICATE TOO HIGH DIFFERENCE, COMPARED TO RESPECTIVE RING AVERAGE. (MBB10EZ911ZT11). MIXED OPERATION OR DURING FUEL CHANGE.
MBB10CT010	EXHAUST AIR TEMPERATURE 2 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	-63°C	-	10 s	HH T7MIN TO AVERAGE: 2/3 ELEMENTS IN ONE OF 8 PROBES IN STATION 52 INDICATE TOO HIGH DIFFERENCE, COMPARED TO RESPECTIVE RING AVERAGE. (MBB10EZ911ZT12). WHEN STEAM OR WATER IS INJECTED.
MBB10CT010	EXHAUST AIR TEMPERATURE 2 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	+595°C	-	0 s	HH T7 AVERAGE ST52. THE T7 AVERAGE IN STATION 52 IS HIGHER THAN ACCEPTABLE. (MBB10FT902ZT01)
MBB10CT010	EXHAUST AIR TEMPERATURE 2 THERMOCOUPLE	ALARM H	°C	300- 650°C/-	-37°C	-	5 s	HIGH T7MIN TO AVERAGE. DIFFERENCE BETWEEN INDIVIDUAL TEMPERATURE TO RING AVERAGE TEMPERATURE. (MBB10EM901ZA02).
MBB10CT010	EXHAUST AIR TEMPERATURE 2 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	dt-100°	-	1 s	HH T7 DECREASE RATE. THE T7 AVERAGE IN STATION 52 HAS DECREASED ABNORMALLY FAST (MBB10EZ911ZT13).
MBB10CT010	EXHAUST AIR TEMPERATURE 2 THERMOCOUPLE	ALARM H	°C	300- 650°C/-	+585°C	-	0 s	T7 AVERAGE ST52 HIGH. THE AVERAGE TEMPERATURE OF STATION 52 (24 INDIVIDUALS) IS HIGHER THAN SETTING. (MBB10FT902>H1)

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	YAMAMA CEMENT	MBB, MBJ, MBT
Checked by Andreas Karlsson 2006-11-22	Rev	05.04.11	Order no B4516	Archive -
Appr. by Nicklas Söderholm 2006-11-22	Resp. dept.	GPML	HG 9100	Lang. E
Prepared by S.MALMLÖV	Latest rev.	d	Doc. no	Sheet 2
	Rev	07.01.12	2046040	Tot. 28
SETTING LIST				



KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK	
				MEASURING RANGE/OUTPUT MIN NOM MAX	TIME DELAY			
MBB10CT010	EXHAUST AIR TEMPERATURE 2 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	-53°C	-	10 s	HH T7MIN TO AVERAGE. 2/3 ELEMENTS IN ONE OF 8 PROBES IN STATION 52 INDICATE TOO HIGH DIFFERENCE , COMPARED TO RESPECTIVE RING AVERAGE. (MBB10EZ911ZT12).
MBB10CT010	EXHAUST AIR TEMPERATURE 2 THERMOCOUPLE	TRIP HH	°C	300- 650°C/-	+53°C	-	10 s	HH T7 MAX TO AVERAGE. 2/3 ELEMENTS IN ONE OF 8 PROBES IN STATION 52 INDICATE TOO HIGH DIFFERENCE , COMPARED TO RESPECTIVE RING AVERAGE. (MBB10EZ911ZT11).
MBB10CT010	EXHAUST AIR TEMPERATURE 2 THERMOCOUPLE	ALARM H	°C	300- 650°C/-	+37°C	-	5 s	HIGH T7MAX TO AVERAGE. DIFFERENCE BETWEEN INDIVIDUAL TEMPERATURE TO RING AVERAGE TEMPERATURE. (MBB10EM901ZA01).
MBB10CT010	EXHAUST AIR TEMPERATURE 2 THERMOCOUPLE	ALARM H	°C	300- 650°C/-	+30°C	-	10 s	T7 RING 3 AVERAGE HIGH . DIFFERENCE BETWEEN RING 3 AVERAGE TO T7 AVERAGE.A CONDITION IS CLOSED BY-PASSED VALVES. (MBB10EM901ZA03).
MBB10CT015	EXHAUST AIR TEMPERATURE 3 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT005
MBB10CT020	EXHAUST AIR TEMPERATURE 4 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT010
MBB10CT025	EXHAUST AIR TEMPERATURE 5 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT005
MBB10CT030	EXHAUST AIR TEMPERATURE 6 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT010
MBB10CT035	EXHAUST AIR TEMPERATURE 7 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT005
MBB10CT040	EXHAUST AIR TEMPERATURE 8 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT010
MBB10CT045	EXHAUST AIR TEMPERATURE 9 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT005
MBB10CT050	EXHAUST AIR TEMPERATURE 10 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT010
MBB10CT055	EXHAUST AIR TEMPERATURE 11 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT005
MBB10CT060	EXHAUST AIR TEMPERATURE 12 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT010
MBB10CT065	EXHAUST AIR TEMPERATURE 13 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT005
MBB10CT070	EXHAUST AIR TEMPERATURE 14 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT010
MBB10CT075	EXHAUST AIR TEMPERATURE 15 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT005
MBB10CT080	EXHAUST AIR TEMPERATURE 16 THERMOCOUPLE	-	-	300- 650°C/-	-	-	-	SEE MBB10CT010

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	03.11.12	POWER TURBINE-/ STARTING-/	YAMAMA CEMENT	MBB, MBJ, MBT
Checked by Andreas Karlsson 2006-11-22	05.04.11	GAS GENERATOR- SYSTEM	Order no B4516	Archive -
Appr. by Nicklas Söderholm 2006-11-22	06.11.13		HG 9100	Lang. E
Prepared by S.MALMLÖV	07.01.12	SETTING LIST	Doc. no 2046040	Sheet 3
				Tot. 28



KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING				REMARK
				MEASURING RANGE/OUTPUT		TIME DELAY		
				MIN	NOM	MAX		
MBB10CT085	BEARING 3 RADIAL TEMPERATURE	ALARM		0- 150°C/-				-
-	PT100	H1	C		110			
MBB10CT085	BEARING 3 RADIAL TEMPERATURE	ALARM		0- 150°C/-				-
-	PT100	H2	C		120			
MBB10CT090	BEARING 3 RADIAL TEMPERATURE	-	-	-- -/-				SPARE
-	PT100	-	-					
MBB10CT095	BEARING 4 AXIAL TEMPERATURE	ALARM		0- 150°C/-				-
-	PT100	H1	C		110			
MBB10CT095	BEARING 4 AXIAL TEMPERATURE	ALARM		0- 150°C/-				-
-	PT100	H2	C		120			
MBB10CT100	BEARING 4 AXIAL TEMPERATURE	-	-	-- -/-				SPARE
-	PT100	-	-					
MBB10CT105	BEARING 4 RADIAL TEMPERATURE	ALARM		0- 150°C/-				-
-	PT100	H1	C		110			
MBB10CT105	BEARING 4 RADIAL TEMPERATURE	ALARM		0- 150°C/-				-
-	PT100	H2	C		120			
MBB10CT110	BEARING 4 RADIAL TEMPERATURE	-	-	-- -/-				SPARE
-	PT100	-	-					
MBB10CY005	VIBRATION BEARING 3	ALARM H		0.0- 25.0mm/s/ 4-20mA				TURBINE IN SERVICE
-	ACCELEROMETER	-	mm/s		7.0			
MBB10CY005	VIBRATION BEARING 3	ALARM		0.0- 25.0mm/s/ 4-20mA				START UP
-	ACCELEROMETER	H1	mm/s		11.2			
MBB10CY005	VIBRATION BEARING 3	TRIP		0.0- 25.0mm/s/ 4-20mA				
-	ACCELEROMETER	H2	mm/s		18.0			
MBB10CY010	VIBRATION BEARING 4	ALARM H		0.0- 25.0mm/s/ 4-20mA				TURBINE IN SERVICE
-	ACCELEROMETER	-	mm/s		7.0			
MBB10CY010	VIBRATION BEARING 4	ALARM		0.0- 25.0mm/s/ 4-20mA				START UP
-	ACCELEROMETER	H1	mm/s		11.2			
MBB10CY010	VIBRATION BEARING 4	TRIP		0.0- 25.0mm/s/ 4-20mA				
-	ACCELEROMETER	H2	mm/s		18.0			
MBJ10AE005	STARTER MOTOR	CONTROL		-- -/-				GAS GENERATOR PURGE TIMER X HAS ITS OWN VALUE FOR EACH PROJECT
-	STARTER MOTOR	-	sec		X			
MBJ10AE005	STARTER MOTOR	CONTROL		-- -/-				GAS GENERATOR PURGE SPEED
-	STARTER MOTOR	-	rpm	2200	2300	2350		
MBJ10AE005	STARTER MOTOR	-		-- -/-				TIME BETWEEN STARTS
-	STARTER MOTOR	-	min	13	15			
MBJ10AE005	STARTER MOTOR	ALARM		-- -/-				GT-START UP BLOCKED IF TEMP. >155°C
-	STARTER MOTOR	H1	°C			155		

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig		YAMAMA CEMENT	MBB, MBJ, MBT
Checked by Andreas Karlsson 2006-11-22	Rev	03.11.12	Order no B4516	Archive -
Resp. dept. GPML	Rev	05.04.11	HG 9100	Lang. E
Appt. by Nicklas Söderholm 2006-11-22	Rev	06.11.13	Doc. no	Sheet 4
Prepared by S.MALMLÖV	Rev	07.01.12	2046040	
SETTING LIST			SIEMENS	

KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT MIN NOM MAX	TIME DELAY		
MBU10CG005	HAND BARRING TOOL IN POSITION SAFETY CONTACT						-- --/ -
MBT10CG005	AXIAL DISPLACEMENT GAS GENERATOR PROXIMITOR	ALARM H1	mm	-1 - +1mm/ 4-20mA	***		ABS. MEASURE REL. BEARING *** +0.2mm+Bearing Clearance FROM NORMAL RUNNING POSITION. Bearing Clearance-0.5mm
MBT10CG005	AXIAL DISPLACEMENT GAS GENERATOR PROXIMITOR	ALARM L1	mm	-1 - +1mm/ 4-20mA	***		ABS. MEASURE REL. BEARING. *** -0.2mm FROM NORMAL RUNNING POSITION.
MBT10CG005	AXIAL DISPLACEMENT GAS GENERATOR PROXIMITOR	TRIP L2	mm	-1 - +1mm/ 4-20mA	***		ABS. MEASURE REL. BEARING. *** -0.3mm FROM NORMAL RUNNING POSITION.
MBT10CG010	ROTOR ANGLE PROXIMITOR						-- --/ -
MBT10CP005	COMPRESSOR INLET PRESSURE PRESSURE TRANSMITTER	CONTROL		80- 120kPa(a)/ 4-20 mA			
MBT10CP010	COMPRESSOR INLET FLOW DIFF. PRESSURE TRANSMITTER	CONTROL		0- 12kPa/ 4-20mA			
MBT10CP015	COMPRESSOR DISCHARGE PRESSURE PRESSURE TRANSMITTER	CONTROL		0- 1.6MPa(a)/ 4-20 mA			
MBT10CP020	COMPRESSOR DISCHARGE PRESSURE PRESSURE TRANSMITTER	CONTROL		0- 1.6MPa(a)/ 4-20mA			
MBT10CP025	COMPRESSOR DISCHARGE PRESSURE PRESSURE TRANSMITTER	CONTROL		0- 1.6MPa(a)/ 4-20mA			
MBT10CQ005	MAIN FLAME UV-DETECTOR	TIME 1	sec		3.0		-
MBT10CQ005	MAIN FLAME UV-DETECTOR	TIME 2	sec		0.0		DURING OPERATION.
MBT10CQ010	PILOT FLAME UV-DETECTOR	TIME 2	sec		0.0		DURING OPERATION
MBT10CQ010	PILOT FLAME UV-DETECTOR	TIME 1	sec		10.0		-
MBT10CS005	GAS GENERATOR SPEED PROXIMITOR	TRIP H1	rpm	0- 12000rpm/ 0.0-10.0V	10540		0-6000Hz SIGNAL NAME IN COMPUTER: MBT10FS005. SIGNAL FROM TRANSDUCER.
MBT10CS010	GAS GENERATOR SPEED PROXIMITOR	TRIP H1	rpm	0.0- 12000rpm/ 0-10.0V	10540		0-6000Hz. SIGNAL NAME IN COMPUTER: MBT10FS005. SIGNAL FROM TRANSDUCER.
MBT10CT005	COMPRESSOR INLET TEMPERATURE PT100	CONTROL		-50- 150°C/			-
MBT10CT010	BEARING 1 AXIAL TEMPERATURE PT100	ALARM H1	C	0- 150°C/	110		-
MBT10CT010	BEARING 1 AXIAL TEMPERATURE PT100	ALARM H2	C	0- 150°C/	120		-

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	YAMAMA CEMENT	MBB, MBJ, MBT
Checked by Andreas Karlsson 2006-11-22	Rev	05.04.11	Order no B4516	Archive -
Appr. by Nicklas Söderholm 2006-11-22	Latest rev.	06.11.13	Doc. no	Lang.
Prepared by S.MALMLÖV	Rev	07.01.12	2046040	
POWER TURBINE-/ STARTING-/ GAS GENERATOR- SYSTEM			SIEMENS	
SETTING LIST			Tot. 28	

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT			
				MIN	NOM	MAX	TIME DELAY
MBH10CT005	SEAL AIR SUPPLY TEMPERATURE PT100	ALARM H1	C	0-	150°C/ 110	-	-
MBH10CT005	SEAL AIR SUPPLY TEMPERATURE PT100	TRIP H2	C	0-	150°C/ 120	-	Unloading turbine trip 30/30.

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Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	YAMAMA CEMENT	MBH10
Checked by Andreas Karlsson 2006-11-22	Rev	05.04.11	Order no B4516	Archive -
Appr. by Nicklas Söderholm 2006-11-22	Rev	06.11.13	HG 9100	Doc. no
Prepared by S.MALMLÖV	Rev	07.01.12	2046040	
SETTING LIST			SIEMENS	
			Lang.	E
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			Tot.	28

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT			
				MIN	NOM	MAX	TIME DELAY
MBH20CT005	PURGE AIR TEMPERATURE AFTER COOLER PT100	ALARM H1	C	0- 200°C/ -	120	-	-
MBH20CT005	PURGE AIR TEMPERATURE AFTER COOLER PT100	TRIP H2	C	0- 200°C/ -	150	-	SYSTEM SHUT DOWN, LIQUID FUEL OPERATION NOT PERMITTED Unloading turbine trip 90/90.

This document is issued in Pulse.

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	Orig	03.11.12	YAMAMA CEMENT	MBH20
Checked by Andreas Karlsson 2006-11-22	Rev	05.04.11	Order no B4516	Archive -
Appr. by Nicklas Söderholm 2006-11-22	Rev	06.11.13	HG 9100	Doc. no
Prepared by S.MALMLÖV	Rev	07.01.12	Doc. no 2046040	
			SIEMENS	
			Lang. E	
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PURGE AIR SYSTEM
DUAL FUEL
SETTING LIST

KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT MIN	NOM	MAX	
MBK10CT005	TEMPERATURE RADIAL BEARING PINION TURBINE SIDE PT100	ALARM H1	C	0- 150°C/ -	100	-	ADD 10C TO MAX NORMAL OPERATING TEMPERATURE
MBK10CT005	TEMPERATURE RADIAL BEARING PINION TURBINE SIDE PT100	ALARM H2	C	0- 150°C/ -	110	-	ADD 20C TO MAX NORMAL OPERATING TEMPERATURE
MBK10CT010	TEMPERATURE RADIAL BEARING PINION GENERATOR SIDE PT100	ALARM H1	C	0- 150°C/ -	100	-	ADD 10C TO MAX NORMAL OPERATING TEMPERATURE
MBK10CT010	TEMPERATURE RADIAL BEARING PINION GENERATOR SIDE PT100	ALARM H2	C	0- 150°C/ -	110	-	ADD 20C TO MAX NORMAL OPERATING TEMPERATURE
MBK10CT025	TEMPERATURE RADIAL BEARING WHEEL TURBINE SIDE PT100	ALARM H1	C	0- 150°C/ -	100	-	ADD 10C TO MAX NORMAL OPERATING TEMPERATURE
MBK10CT025	TEMPERATURE RADIAL BEARING WHEEL TURBINE SIDE PT100	ALARM H2	C	0- 150°C/ -	110	-	ADD 20C TO MAX NORMAL OPERATING TEMPERATURE
MBK10CT030	TEMPERATURE RADIAL BEARING WHEEL GENERATOR SIDE PT100	ALARM H1	C	0- 150°C/ -	100	-	ADD 10C TO MAX NORMAL OPERATING TEMPERATURE
MBK10CT030	TEMPERATURE RADIAL BEARING WHEEL GENERATOR SIDE PT100	ALARM H2	C	0- 150°C/ -	110	-	ADD 20C TO MAX NORMAL OPERATING TEMPERATURE
MBK10CY005	CASING VIBRATION PINION TURBINE SIDE ACCELEROMETER	ALARM H1	mm/s	0,0- 25,0mm/s/ 0,0-10,0V -	4,5	-	-
MBK10CY005	CASING VIBRATION PINION TURBINE SIDE ACCELEROMETER	TRIP H2	mm/s	0,0- 25,0mm/s/ 0,0-10,0V -	7,0	-	UNLOADING TRIP
MBK10CY005	CASING VIBRATION PINION TURBINE SIDE ACCELEROMETER	TRIP H H3	mm/s	0,0- 25,0mm/s/ 0,0-10,0V -	8,0	-	TRIP

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				MIN	NOM	MAX	TIME DELAY		
MBL20CP005	DIFF. PRESSURE FILTER	-	-	--	-/-	-	-	-	-
-	DIFF. PRESSURE GAUGE WITH SWITCH	-	-	-	-	-	-	-	-
MBL20CP015	DIFF. PRESSURE FILTER	ALARM	-	0-	2kPa/	4-20mA	-	-	-
-	DIFF. PRESSURE TRANSMITTER	H1	kPa	-	0.9	-	-	-	-
MBL20CP015	DIFF. PRESSURE FILTER	TRIP	-	0-	2kPa/	4-20mA	-	-	-
-	DIFF. PRESSURE TRANSMITTER	H2	kPa	-	1.5	-	-	-	-
MBL30CG005	PLENUM DOOR	-	-	--	-/-	-	-	-	-
-	LIMIT SWITCH	-	-	-	-	-	-	-	-
MBL30CM005	AMBIENT AIR HUMIDITY	CONTROL	-	0-	100%/	4-20 mA	-	-	PORT OF EXHAUST AIR TEMPERATURE. LIMITER CALCULATION.
-	HUMIDITY TRANSDUCER	-	-	-	-	-	-	-	-
MBL30CP015	DIFF. PRESSURE INLET PLENUM	ALARM	-	-4-	2kPa/	-	-	-	-
-	DIFF. PRESSURE TRANSMITTER	H1	kPa	-	-2,5	-	-	-	-
MBL30CP015	DIFF. PRESSURE INLET PLENUM	TRIP	-	-4-	2kPa/	-	-	-	-
-	DIFF. PRESSURE TRANSMITTER	H2	kPa	-	-3	-	-	-	-
MBL30CT005	AMBIENT TEMPERATURE	-	-	-40-	+80C/	4-20 mA	-	-	-
-	TEMPERATURE TRANSMITTER	-	-	-	-	-	-	-	-

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT MIN	NOM	MAX	
MBM10AA005	BYPASS VALVE POSITIONER	CONTROL	°	8- 104-7	20-4mA	-	Valve position.Angle measured at actuator
MBM10AA005	BYPASS VALVE POSITIONER	ALARM L	°	8- 104-7	20-4mA	5	Valve position. Limit switch - Actuator blocked
MBM10AA005	BYPASS VALVE POSITIONER	ALARM H	°	8- 104-7	20-4mA	107	Valve position.Limit switch - Actuator blocked

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING				REMARK
				MEASURING RANGE/OUTPUT		TIME DELAY		
				MIN	NOM	MAX		
MBN10AA010	LEVEL CONTROL VALVE	SET VALUE	- /	-	-	-	-	Distance from edge of lever to float.
MBN10AA215	SAFETY VALVE	SET VALUE	mm	-	145	-	-	
MBN10AH005	START UP FUEL HEATER OVER HEAT PROTECTION	SET VALUE	bar(g)	-	60	-	-	
MBN10AH005	START UP FUEL HEATER OVER HEAT PROTECTION	SET VALUE	°C	40	-	45	-	
MBN10AH005	START UP FUEL HEATER OVER HEAT PROTECTION	SET VALUE	°C	15	-	21	-	
MBN10AH005	START UP FUEL HEATER OVER HEAT PROTECTION	SET VALUE	°C	-	-	55	-	Check with system description and maintenance manual.
MBN10AH005	START UP FUEL HEATER OVER HEAT PROTECTION	SET VALUE	°C	40	-	45	-	
MBN10AH010	START UP FUEL HEAT TRACING THERMOSTAT	SET VALUE	°C	40	-	45	-	
MBN10CF005	FLOW PICK UP INC. DRY/SLEEVE	-	liter/s	-	3,0	-	-	Turbine consumes 2,0 l/s at full load.
MBN10CF005	FLOW TOTALIZER/RATEMETER	-	liter/s	-	3,0	-	-	Turbine consumes 2,0 l/s at full load.
MBN10CF005	FLOW SCREW-VOLUMETER	-	liter/s	-	3,0	-	-	Turbine consumes 2,0 l/s at full load.
MBN10CL005	LEVEL IN FUEL TANK LEVEL SWITCH	ALARM H1	mm	-	625	-	5s	FROM TANK BOTTOM
MBN10CL005	LEVEL IN FUEL TANK LEVEL SWITCH	ALARM L1	mm	-	200	-	-	FROM TANK BOTTOM
MBN10CL005	LEVEL IN FUEL TANK LEVEL SWITCH	ALARM L2	mm	-	100	-	5s	FROM TANK BOTTOM
MBN10CP005	DIFF. PRESSURE FUEL FILTER DIFF. PRESSURE TRANSMITTER	ALARM H1	kPa	0- 400kPa/ 4-20mA	20-160	80	-	
MBN10CP035	DIFF. PRESSURE BEFORE MANIFOLD / P3 DIFF. PRESSURE TRANSMITTER	-	kPa	-100- 400kPa/ 4-20 mA	-100-40	10	-	VALUE SETTING WHEN COMMISSIONING Differente value conventional Lov nox. (10kPa for change over gas to fuel.)
MBN10CT005	TEMPERATURE LIQUID FUEL TANK PT100	-	°C	-15- 90°C/ -	-	-	-	
MBN30CP005	PRESSURE INSTRUMENT AIR PRESSURE TRANSMITTER	ALARM H1	Mpa(g)	0- 1,6Mpa(g)/ 4-20mA	-	0,9	-	
MBN30CP010	PRESSURE PURGE AIR PRESSURE TRANSMITTER	ALARM H1	Mpa(g)	0- 5Mpa(g)/ 4-20mA	-	3	-	
MBU10AA425	PRESSURE REDUCING VALVE	SET VALUE	bar	- /	-	2	-	

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT MIN	NOM	MAX	
MBU10AP405	DOSAGE PUMP	SET VALUE	- / -	0	0,5	0,8	SETTING REFERS TO STROKE LENGTH OF PUMP.
MBU10AP405	DOSAGE PUMP	SET VALUE	- / -	0	0,5	0,8	SETTING REFERS TO STROKE LENGTH OF PUMP.
MBU10CF405	LEVEL DOSAGE TANK 1 LEVEL GAUGE	SET VALUE	mm/min	-- -- / -	12	-	21 ml dosage medium for 1000 l fuel. 1,2 cm level change in 60 sec, when medium is taken from level tube and turbine is running at full load (1,68 kg/s).

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING				REMARK
				MEASURING RANGE/OUTPUT MIN	NOM	MAX	TIME DELAY	
MBP05CF005	FLOW GAS FUEL FLOW METER	INDICATING	kg/s	0- 2- / 4-20mA	-	-	-	-
MBP05CL020	CONDENSATE INDICATOR SIGHT GLASS	INDICATING	-	-- / - / -	-	-	-	-
MBP05CL025	CONDENSATE INDICATOR SIGHT GLASS	INDICATING	-	-- / - / -	-	-	-	-
MBP05CP005	DIFF. PRESS. GAS FUEL FILTER DIFF. PRESSURE TRANSMITTER	ALARM H1	kPa	0- 100- / 4-20mA	-	-	-	FILTER UNIT NEEDS TO BE EXCHANGED
MBP05CP010	PRESS. GAS FUEL PRESSURE GAUGE	INDICATING	MPa(g)	0- 4- / -	-	-	-	-
MBP05CP025	PRESS. GAS FUEL PRESSURE GAUGE	INDICATING	MPa(g)	0- 4- / -	-	-	-	-
MBP10AA035	GAS FUEL CONTROL VALVE, MAIN GAS	SET	MPa(g)	- /	-	-	-	-S31 LIMIT SWITCH=MAX IGNITION POSITION. MAIN GAS CONTROL VALVE
MBP10AA035	GAS FUEL CONTROL VALVE, MAIN GAS	SET	°	- /	10	-	-	-S21 LIMIT SWITCH=MIN POSITION. MAIN GAS CONTROL VALVE
MBP10AA035	GAS FUEL CONTROL VALVE, MAIN GAS	SET	°	- /	2	-	-	-S11 LIMIT SWITCH=MAX POSITION MAIN GAS CONTROL VALVE
MBP10AA040	PRESSURE REGULATING VALVE	SETTING	°	- /	88	-	-	READING ON MBP10CP030
MBP10AA045	PRESSURE REGULATING VALVE	SETTING	MPa(g)	- /	0.6	-	-	READING ON MBP10CP035
MBP10CP015	GAS FUEL PRESSURE PRESSURE TRANSMITTER	ALARM H1	MPa(g)	0- 4MPa(g) / 4-20 mA	-	-	-	START ABORT GT WITH FREQUENCY CONTROL 2,34 Mpa.
MBP10CP015	GAS FUEL PRESSURE PRESSURE TRANSMITTER	ALARM H2	MPa(g)	0- 4MPa(g) / 4-20 mA	-	-	-	-
MBP10CP015	GAS FUEL PRESSURE PRESSURE TRANSMITTER	ALARM L1	MPa(g)	0- 4MPa(g) / 4-20 mA	-	-	-	START ABORT GT WITH FREQUENCY CONTROL 1,95 Mpa.
MBP10CP015	GAS FUEL PRESSURE PRESSURE TRANSMITTER	TRIP L2	MPa(g)	0- 4MPa(g) / 4-20 mA	-	-	-	EXTERNAL GAS PRESSURE -550 kPa. UNLOADING TURBINE TRIP 30/30
MBP10CP030	INSTRUMENT AIR PRESSURE PRESSURE GAUGE	INDICATING	MPa(g)	0- 1- / -	-	-	-	READING ON MBP10CP030
MBP10CP035	INSTRUMENT AIR PRESSURE PRESSURE GAUGE	INDICATING	MPa(g)	0- 1- / -	-	-	-	READING ON MBP10CP035
MBP10CP050	PRESSURE TRANSMITTER MAIN CONTROL VALVE PRESSURE TRANSMITTER	INDICATING	MPa(g)	0- 3MPa / 4-20mA	-	-	-	-
MBP10CT005	GAS FUEL TEMPERATURE PT100	ALARM H1	°C	-25- 200°C /	-	-	-	-

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				MEASURING RANGE/OUTPUT MIN NOM MAX	TIME DELAY		
MBP10CT005	GAS FUEL TEMPERATURE PT100	ALARM L1	°C	-25- 200°C/ - +7	-	-	DEW. POINT +15C. SETTING CONDITION: DEW POINT -8°C
MBP10CT005	GAS FUEL TEMPERATURE PT100	ALARM L2	°C	-25- 200°C/ - +2	-	-	DEW. POINT +10°C. SETTING CONDITION: DEW POINT=-8°C. FUEL CHANGE FOR DUAL FUEL.
MBP10CT005	GAS FUEL TEMPERATURE PT100	TRIP L3	°C	-25- 200°C/ - -	-	-	DEW POINT +5°C, SYSTEM SHUT DOWN SETTING CONDITION: DEW POINT= -8°C UNLOADING TURBINE TRIP 30/30
MBP10CT005	GAS FUEL TEMPERATURE PT100	ALARM L4	°C	-25- 200°C/ - -5	-	-	WATER DEW POINT +5°C.WATER DEW POINT OF THE NATURAL GAS=-10°C.OPERATOR TO TAKE ACTION=CHECKING FUEL SYSTEM
MBP20AA005	GAS FUEL CONTROL VALVE, PRIMARY GAS	SET	°	- /	-	-	-S31 LIMIT SWITCH=MAX IGNITION POSITION. PILOT GAS CONTROL VALVE
MBP20AA005	GAS FUEL CONTROL VALVE, PRIMARY GAS	SET	°	- /	-	-	-S21 LIMIT SWITCH=MIN.POSITION. PILOT GAS CONTROL VALVE
MBP20AA005	GAS FUEL CONTROL VALVE, PRIMARY GAS	SET	°	- /	-	-	-S11 LIMIT SWITCH=MAX POSITION. PILOT GAS CONTROL VALVE
MBP20CP005	PRESSURE TRANSMITTER PILOT CONTROL VALVE PRESSURE TRANSMITTER	INDICATING	MPa(g)	0- 3MPa/ 4-20mA	-	-	-

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GAS FUEL SYSTEM

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING				REMARK
				MEASURING RANGE/OUTPUT		TIME DELAY		
				MIN	NOM	MAX		
MBQ10AA005	PRESSURE REDUCING VALVE	SET	Mpa(g)	- /	0.5	-	-	IGNITION GAS SUPPLY PRESSURE. SETTING BEFORE SYSTEM IS ACTIVATED
MBQ10AA010	PRESSURE REDUCING VALVE	SET	Mpa(g)	- /	0.5	-	-	IGNITION GAS SUPPLY PRESSURE. SETTING BEFORE SYSTEM IS ACTIVATED
MBQ10AA015	PRESSURE REDUCING VALVE	SET	Mpa(g)	- /	0.5	-	-	IGNITION GAS SUPPLY PRESSURE. SETTING BEFORE SYSTEM IS ACTIVATED
MBQ10AA020	PRESSURE REDUCING VALVE	SET	Mpa(g)	- /	0.5	-	-	IGNITION GAS SUPPLY PRESSURE. SETTING BEFORE SYSTEM IS ACTIVATED
MBQ10AA035	PRESSURE REDUCING VALVE	SET	Mpa(g)	- /	0.35	0.6	-	IGNITION GAS SUPPLY PRESSURE. READING ON MBQ10 CP010 TO BE LOCKED AFTER ADJUSTMENT.
MBQ10AA050	CONTROL VALVE	SET	Mpa(g)	- /	0.15	-	-	AIR PRESSURE CONTROL. READING ON MBQ10 CP405.
MBQ10AA410	PRESSURE REGULATING VALVE	SET	Mpa(g)	0.05	0.35	1.0	-	IGNITION AIR FLOW ADJUSTMENT. READING ON MBQ10CP405. TO BE LOCKED AFTER ADJUSTMENT.
MBQ10AA415	CONTROL VALVE	SET	MPa(g)	-	0.1	-	-	IGNITION AIR FLOW ADJUSTMENT. READING ON MBQ10CP405. TO BE LOCKED AFTER ADJUSTMENT.
MBQ10AH010	HEATER IN IGNITION GAS CABINET	SETTING	°C	- /	15	-	-	
MBQ10CP005	GAS PRESSURE PRESSURE GAUGE	INDICATING	Mpa(g)	0- 1MPa(g)/-	-	-	-	
MBQ10CP010	GAS PRESSURE BEFORE ORIFICE PRESSURE GAUGE	INDICATING	kPa(g)	0- 400kPa/-	-	-	-	
MBQ10CP400	AIR PRESSURE PRESSURE GAUGE	INDICATING	Mpa(g)	0- 1Mpa(g)/-	-	-	-	
MBQ20AA210	VALVE	SET	Mpa(g)	- /	-	-	-	
MBQ20CP005	GAS PRESSURE TO BURNER No. 6 PRESSURE GAUGE	INDICATING	MPa(g)	-	3.0	-	-	

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT MIN NOM MAX	TIME DELAY		
MBV10CL005	LUBE OIL TANK LEVEL LEVEL GAUGE						-- / - / -
MBV10CL010	LUBE OIL TANK LEVEL LEVEL TRANSMITTER	ALARM H1	mm	300- 840mm/ 4-20 mA	- 580 -	1 min	"MAX OPER. LEVEL" (ref. TANK BOTTOM). ONLY WHEN PUMPS ARE RUNNING AND DELAYED AFTER PUMP START.
MBV10CL010	LUBE OIL TANK LEVEL LEVEL TRANSMITTER	ALARM H2	mm	300- 840mm/ 4-20 mA	- 700 -	-	"MAX RUN DOWN LEVEL" (ref. TANK BOTTOM). ONLY WHEN PUMPS ARE NOT RUNNING
MBV10CL010	LUBE OIL TANK LEVEL LEVEL TRANSMITTER	ALARM L1	mm	300- 840mm/ 4-20 mA	- 500 -	1 min.	"MIN. OPER. LEVEL" (ref. TANK BOTTOM). TIMEDELAY AFTER PUMP START.
MBV10CL010	LUBE OIL TANK LEVEL LEVEL TRANSMITTER	ALARM L2	mm	300- 840mm/ 4-20 mA	- 400 -	-	"LOW LOW LEVEL" (ref. TANK BOTTOM). HEATERS INTERLOCKED BELOW THIS LEVEL.
MBV10CP005	PRESSURE IN LUBE OIL TANK PRESSURE GAUGE	-	-	-4- 0kPa(g)/-	-	-	NORMAL OPERATING PRESS. IS -1(-1.2)kPa AT FULL POWER. SET BY SFC CONVERTER.
MBV10CP010	DIFF. PRESSURE OIL MIST FILTER DIFF. PRESSURE GAUGE	-	-	0- 50cmw/ -	-	-	
MBV10CP015	PRESSURE IN LUBE OIL TANK DIFF. PRESSURE TRANSMITTER	ALARM H1	kPa(g)	-5- 0kPa(g)/ 20-4 mA	- -0.8 -	30 sec	TIME DELAY AFTER PUMP START.
MBV10CP015	PRESSURE IN LUBE OIL TANK DIFF. PRESSURE TRANSMITTER	ALARM H2	kPa(g)	-5- 0kPa(g)/ 20-4 mA	- -0.8 0	5 sec	TIME DELAY DURING SHUT DOWN
MBV10CP015	PRESSURE IN LUBE OIL TANK DIFF. PRESSURE TRANSMITTER	TRIP H2	kPa(g)	-5- 0kPa(g)/ 20-4 mA	- -0.4 -	5 sec.	TIME DELAY DURING OPERATION. UNLOADING 90.
MBV10CT005	LUBE OIL TANK TEMPERATURE THERMOMETER	-	-	0- 100°C/-	-	-	
MBV10CT010	LUBE OIL TANK TEMPERATURE PT100	ALARM H1	°C	0- 100°C/-	- 80 -	-	VALID FOR ISO VG46.
MBV10CT010	LUBE OIL TANK TEMPERATURE PT100	CONTROL L1	°C	0- 100°C/-	46 - 50	-	CONTROL OF HEATERS. VALID FOR ISO VG46.
MBV10CT010	LUBE OIL TANK TEMPERATURE PT100	ALARM L2	°C	0- 100°C/-	- 10 -	-	TURBINE SEQUENCE INTERLOCK BELOW 10°C (ISO VG46).
MBV10CT015	TEMP. OIL HEATER THERMOSTATE	CONTROL H1	°C	-50- 100°C/-	-	-	
MBV10CT015	TEMP. OIL HEATER THERMOSTATE	CONTROL L1	°C	-50- 100°C/-	-	-	
MBV10CT020	TEMP. OIL HEATER THERMOSTATE	CONTROL H1	°C	-50- 100°C/-	- 60 -	-	
MBV10CT020	TEMP. OIL HEATER THERMOSTATE	CONTROL L1	°C	-50- 100°C/-	- 55 -	-	
MBV10CT025	TEMP. OIL HEATER THERMOSTATE	CONTROL H2	°C	-50- 100°C/-	- 80 -	-	

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				MEASURING RANGE/OUTPUT MIN	NOM	MAX	
MBV10CT030	TEMP. OIL HEATER THERMOSTATE	CONTROL H2	°C	-50- 100°C/-	-	-	-
MBV21AA015	SHUT OFF VALVE, MAIN OIL PUMP MBV21 AP005 PRESSURE SIDE	-	-	- /	-	-	LOCKED INTO OPEN POSITION.
MBV21CP005	PRESSURE AFTER MBV21 AP005	CONTROL AND ALARM	-	-- - / -	-	-	FOR SWITCH OVER TO STAND-BY PUMP GROUP.
MBV22AA015	PRESSURE SWITCH	L1	kPa(g)	-	50	-	LOCKED INTO OPEN POSITION.
MBV22CP005	SHUT OFF VALVE, MAIN OIL PUMP MBV22 AP005 PRESSURE SIDE	-	-	- /	-	-	FOR SWITCH OVER TO STAND-BY PUMP GROUP.
MBV22CP005	PRESSURE AFTER MBV22 AP005	CONTROL AND ALARM	-	-- - / -	-	-	FOR SWITCH OVER TO STAND-BY PUMP GROUP.
MBV23AA015	PRESSURE SWITCH	L1	kPa(g)	-	50	-	LOCKED INTO OPEN POSITION.
MBV23AA015	SHUT OFF VALVE, MAIN OIL PUMP MBV23 AP005 PRESSURE SIDE	-	-	- /	-	-	LOCKED INTO OPEN POSITION.
MBV23CP005	PRESSURE AFTER MBV23 AP005	CONTROL AND ALARM	-	-- - / -	-	-	FOR SWITCH OVER TO STAND- BY PUMP GROUP.
MBV30AA020	PRESSURE SWITCH	L1	kPa(g)	-	50	-	VALID FOR ISO VG46.
MBV30AA020	TEMPERATURE REGULATING VALVE	MIXING	-	- /	45	50	55
MBV40AA210	SHUT OFF VALVE	-	-	- /	-	-	LOCKED OPEN. FOR ISOLATION OF THE BOOSTER OIL LINE PRESSURE REGULATING VALVE MBV54 AA005.
MBV40CP010	DIFF. PRESSURE LUBE OIL FILTER	ALARM	-	0- 150kPa/ 4-20 mA	-	-	ALARM INDICATES CARTRIDGE REPLACEMENT. TIME DELAY AFTER PUMP START.
MBV40CP015	DIFF. PRESSURE TRANSMITTER	H1	kPa	-	80	-	60 sec.
MBV40CP015	LUBE OIL PRESSURE	ALARM	-	0- 300kPa(g)/ 4-20 mA	-	-	TIME DELAY ONLY AFTER PUMP START. DESIGN CRITERIA IS 130 kPa. CORR. FORE GEOD. HEAD AND PRESS. DROP IN PIPES.
MBV40CP015	PRESSURE TRANSMITTER	L1	kPa(g)	-	140	-	30 sec
MBV40CP015	LUBE OIL PRESSURE	TRIP	-	0- 300kPa(g)/ 4-20 mA	-	-	TIME DELAY DURING OPERATION. DESIGN CRITERIA IS 80kPa(g). CORR. FOR GEOD. HEAD AND PRESS. DROP IN PIPES.
MBV40CP015	PRESSURE TRANSMITTER	L2	kPa(g)	-	110	-	0.25 sec
MBV40CP020	LUBE OIL PRESSURE	-	-	0- 400kPa(g)/ -	-	-	PRESSURE TO BE SET TO 180 kPa(g) AT CL OF TURBINE AT FULL POWER, CLEAN FILTER AND NORMAL OPERATING OIL TEMP. NORMAL OPER. PRESSURE IS 150 kPa(g) TO 180 kPa(g) AT CL OF TURBINE. TO BE SET BY MBV30 AA025.
MBV40CP020	PRESSURE GAUGE	-	-	-	-	-	PRESSURE TO BE SET TO 180 kPa(g) AT CL OF TURBINE AT FULL POWER, CLEAN FILTER AND NORMAL OPERATING OIL TEMP. NORMAL OPER. PRESSURE IS 150 kPa(g) TO 180 kPa(g) AT CL OF TURBINE. TO BE SET BY MBV30 AA025.
MBV40CP025	LUBE OIL PRESSURE	ALARM	-	0- 300kPa(g)/ 4-20 mA	-	-	TIME DELAY ONLY AFTER PUMP START. DESIGN CRITERIA IS 130 kPa. CORR. FORE GEOD. HEAD AND PRESS. DROP IN PIPES.
MBV40CP025	PRESSURE TRANSMITTER	L1	kPa(g)	-	140	-	30 sec.
MBV40CP025	LUBE OIL PRESSURE	TRIP	-	0- 300kPa(g)/ 4-20 mA	-	-	TIME DELAY DURING OPERATION. DESIGN CRITERIA IS 80 kPa. CORR. FOR GEOD. HEAD AND PRESS. DROP IN PIPES.
MBV40CP025	PRESSURE TRANSMITTER	L2	kPa(g)	-	110	-	0.25 sec
MBV40CT005	LUBE OIL SUPPLY TEMPERATURE	ALARM	-	0- 100°C/-	-	-	VALID FOR ISO VG46. TIME DELAY AFTER PUMP START.
MBV40CT005	PT100	H1	°C	-	60	-	120 sec
MBV40CT005	LUBE OIL SUPPLY TEMPERATURE	TRIP	-	0- 100°C/-	-	-	VALID FOR ISO VG46.
MBV40CT005	PT100	H2	°C	-	65	-	-

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Aprt. by Nicklas Söderholm 2006-11-22	Rev	06.11.13	HG 9100	Lang. -
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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK	
				MEASURING RANGE/OUTPUT MIN NOM MAX	TIME DELAY			
MBV40CT005	LUBE OIL SUPPLY TEMPERATURE PT100	ALARM L1	°C	0- 100°C/-	30	-	120 sec	VALID FOR ISO VG46. TIME DELAY AFTER PUMP START.
MBV40CT010	LUBE OIL SUPPLY TEMPERATURE THERMOMETER	-	°C	0- 100°C/-	-	-	-	-
MBV40CT015	LUBE OIL SUPPLY TEMPERATURE PT100	ALARM H1	°C	0- 100°C/-	60	-	120 sec.	VALID FOR ISO VG46. TIME DELAY AFTER PUMP START.
MBV40CT015	LUBE OIL SUPPLY TEMPERATURE PT100	TRIP H2	°C	0- 100°C/-	65	-	-	VALID FOR ISO VG46.
MBV40CT015	LUBE OIL SUPPLY TEMPERATURE PT100	ALARM L1	°C	0- 100°C/-	30	-	120 sec	VALID FOR ISO VG46. TIME DELAY AFTER PUMP START.
MBV51AA005	SHUT OFF VALVE	-	-	-/-	-	-	-	LOCKED OPEN POSITION.
MBV51AA010	CHECK VALVE	-	kPa(g)	-/-	300	-	-	CHECK OPENING PRESSURE. TEST BY RUN PUMP ON LOW FREQUENCY AND READ PRESSURE ON MBV51CPO05-KA09.
MBV51AA015	SHUT OFF VALVE	-	-	-/-	-	-	-	LOCKED OPEN POSITION.
MBV51AP005	LUBE OIL HIGH PRESSURE PUMP RELIEF VALVE	-	kPa(g)	-- -/-	1600	-	-	To be set to start to open at this pressure. Site test by run pump slowly and close outlet valve MBV51AA015 a few seconds and read pressure at MBV51CP005-KA09.
MBV51CP005	PRESSURE AFTER MBV51 AP005	CONTROL AND ALARM L1	kPa(g)	-- -/-	240	-	-	SWITCH OVER TO STAND-BY PUMP GROUP.
MBV52AA005	PRESSURE SWITCH SHUT OFF VALVE	-	-	-/-	-	-	-	LOCKED OPEN POSITION.
MBV52AA010	CHECK VALVE	-	kPa(g)	-/-	300	-	-	CHECK OPENING PRESSURE. TEST BY RUN PUMP ON LOW FREQUENCY AND READ PRESSURE ON MBV52CPO05-KA09.
MBV52AA015	SHUT OFF VALVE	-	-	-/-	-	-	-	LOCKED OPEN POSITION.
MBV52AP005	LUBE OIL HIGH PRESSURE PUMP RELIEF VALVE	-	kPa(g)	-- -/-	1600	-	-	To be set to start to open at this pressure. Site test by run pump slowly and close outlet valve MBV52AA015 a few seconds and read pressure at MBV52CP005-KA09.
MBV52CP005	PRESSURE AFTER MBV52 AP005	CONTROL AND ALARM L1	kPa(g)	-- -/-	240	-	-	SWITCH OVER TO STAND-BY PUMP GROUP.
MBV53AA005	PRESSURE SWITCH SHUT OFF VALVE	-	-	-/-	-	-	-	LOCKED OPEN POSITION.
MBV53AA010	CHECK VALVE	-	kPa(g)	-/-	300	-	-	CHECK OPENING PRESSURE. TEST BY RUN PUMP ON LOW FREQUENCY AND READ PRESSURE ON MBV53CP005-KA09.
MBV53AA015	SHUT OFF VALVE	-	-	-/-	-	-	-	LOCKED OPEN POSITION.

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT MIN	NOM	MAX	
MBV53AP005	LUBE OIL HIGH PRESSURE PUMP RELIEF VALVE	-	kPa(g)	-- / -	1600	-	To be set to start to open at this pressure. Site test by run pump slowly and close outlet valve MBV53AA015 a few seconds and read pressure at MBV53CP005-KA09.
MBV53CP005	PRESSURE AFTER MBV53 AP005	CONTROL AND ALARM	kPa(g)	-- / -			SWITCH OVER TO STAND-BY PUMP GROUP.
-	PRESSURE SWITCH	L1	kPa(g)	-	240	-	
MBV54AA005	HP LUBE OIL PRESSURE REGULATING VALVE	-	kPa	- /	155	-	DIFF. PRESSURE TO BE SET TO 155 kPa AT CL OF TURBINE AT FULL POWER, NORMAL OPERATING OIL TEMP. DIFF. PRESSURE TO BE CHECKED AT MBV54CP030 AND MBV60CP005.
MBV54AA010	SHUT OFF VALVE	-	-	- /	-	-	LOCKED OPEN. FOR ISOLATION OF THE BOOSTER OIL LINE PRESSURE REGULATING VALVE MBV54 AA005.
MBV54AA020	SHUT OFF VALVE	-	-	- /	-	-	LOCKED OPEN. FOR ISOLATION OF THE BOOSTER OIL LINE PRESSURE REGULATING VALVE MBV54 AA005.
MBV54CP005	LUBE OIL DIFF. PRESSURE FOR BEARING 2	-	kPa	0- 250kPa/	-	-	
MBV54CP010	LUBE OIL PRESSURE FOR BEARING 2	-	MPa(g)	0- 2.5MPa(g)/	-	-	
MBV54CP015	DIFF. PRESSURE BEARING 2	ALARM	kPa	0- 300kPa/ 4-20 mA	-	30 sec	DESIGN CRITERIA 250 kPa TO BE CALIBRATED WITH GAUGE. TIME DELAY AFTER PUMPGROUP START.
MBV54CP015	DIFF. PRESSURE BEARING 2	ALARM	kPa	0- 300kPa/ 4-20 mA	-	30 sec	TIME DELAY AFTER PUMP GROUP START. DESIGN CRITERIA 110 kPa. TO BE CALIBRATED WITH GAUGE.
MBV54CP015	DIFF. PRESSURE BEARING 2	TRIP	kPa	0- 300kPa/ 4-20 mA	-	3 sec	DESIGN CRITERIA 80 kPa. TO BE CALIBRATED WITH GAUGE. TIME DELAY ONLY DURING OPERATION.
MBV54CP020	DIFF. PRESSURE BEARING 2	ALARM	kPa	0- 300kPa/ 4-20 mA	-	30 sec	DESIGN CRITERIA 250 kPa TO BE CALIBRATED WITH GAUGE. TIME DELAY AFTER PUMPGROUP START.
MBV54CP020	DIFF. PRESSURE BEARING 2	ALARM	kPa	0- 300kPa/ 4-20 mA	-	30 sec	TIME DELAY AFTER PUMP GROUP START. DESIGN CRITERIA 110 kPa. TO BE CALIBRATED WITH GAUGE.
MBV54CP020	DIFF. PRESSURE BEARING 2	TRIP	kPa	0- 300kPa/ 4-20 mA	-	3 sec	DESIGN CRITERIA 80 kPa. TO BE CALIBRATED WITH GAUGE. TIME DELAY ONLY DURING OPERATION.
MBV60CL005	LEVEL BEARING 2	TRIP	-	-- / -	-	-	NOT POSSIBLE TO SET
-	LEVEL SWITCH	H1	-	-	-	-	

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING				REMARK
				MEASURING RANGE/OUTPUT		TIME DELAY		
				MIN	NOM	MAX		
MKA10CT005	GENERATOR DRIVING END BEARING TEMPERATURE PT100	ALARM H1	C	0- 150°C/ -	85	-	-	ADJUST TO 10C ABOVE MAX OPERATING TEMPERATURE
MKA10CT005	GENERATOR DRIVING END BEARING TEMPERATURE PT100	ALARM H2	C	0- 150°C/ -	95	-	-	ADJUST TO 20C ABOVE MAX OPERATING TEMPERATURE
MKA10CT010	GENERATOR NON DRIVING END BEARING TEMPERATURE PT100	ALARM H1	C	0- 150°C/ -	85	-	-	ADJUST TO 10C ABOVE MAX OPERATING TEMPERATURE
MKA10CT010	GENERATOR NON DRIVING END BEARING TEMPERATURE PT100	ALARM H2	C	0- 150°C/ -	90	-	-	ADJUST TO 20C ABOVE MAX OPERATING TEMPERATURE
MKA10CT015	GENERATOR COOL AIR DRIVING END TEMPERATURE PT100	ALARM H1	C	0- 150°C/ -	55	-	-	-
MKA10CT020	GENERATOR WARM AIR TEMPERATURE PT100	-	-	0- 150°C/ -	-	-	-	SPARE
MKA10CT025	GENERATOR COOL AIR NON DRIVING END TEMPERATURE PT100	ALARM H1	C	0- 150°C/ -	55	-	-	-
MKA10CT030	GENERATOR STATOR TEMPERATURE PHASE 1 PT100	ALARM H1	C	0- 200°C/ -	110	-	-	ADJUST TO 10C ABOVE MAX OPERATING TEMPERATURE
MKA10CT030	GENERATOR STATOR TEMPERATURE PHASE 1 PT100	TRIP H2	C	0- 200°C/ -	120	-	-	ADJUST TO 20C ABOVE MAX OPERATING TEMPERATURE
MKA10CT035	GENERATOR STATOR TEMPERATURE PHASE 2 PT100	ALARM H1	C	0- 200°C/ -	110	-	-	ADJUST TO 10C ABOVE MAX OPERATING TEMPERATURE
MKA10CT035	GENERATOR STATOR TEMPERATURE PHASE 2 PT100	TRIP H2	C	0- 200°C/ -	120	-	-	ADJUST TO 20C ABOVE MAX OPERATING TEMPERATURE
MKA10CT040	GENERATOR STATOR TEMPERATURE PHASE 3 PT100	ALARM H1	C	0- 200°C/ -	110	-	-	ADJUST TO 10C ABOVE MAX OPERATING TEMPERATURE
MKA10CT040	GENERATOR STATOR TEMPERATURE PHASE 3 PT100	TRIP H2	C	0- 200°C/ -	120	-	-	ADJUST TO 20C ABOVE MAX OPERATING TEMPERATURE
MKA10CY005	VIBRATION BEARING DRIVING END VELOMITOR	ALARM H1	mm/s	0.0- 25.0mm/s/ 4-20mA -	4.5	-	-	-
MKA10CY005	VIBRATION BEARING DRIVING END VELOMITOR	TRIP H2	mm/s	0.0- 25.0mm/s/ 4-20mA -	8.0	-	-	TRIP
MKA10CY010	VIBRATION BEARING NOT DRIVING END VELOMITOR	ALARM H1	mm/s	0.0- 25.0mm/s/ 4-20mA -	4.5	-	-	-
MKA10CY010	VIBRATION BEARING NOT DRIVING END VELOMITOR	TRIP H2	mm/s	0.0- 25.0mm/s/ 4-20mA -	8.0	-	-	-

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING		REMARK
				MEASURING RANGE/OUTPUT MIN NOM MAX	TIME DELAY	
SAA10CP005	DIFF. PRESSURE GASTURBINE ROOM FAN	ALARM		0- 2kPa/ 4-20mA	-	
-	DIFF. PRESSURE TRANSMITTER	L1	kPa	0.1	-	
SAG10CP003	PRESSURE DOWNSTREAM INLET FILTER	-		0- 0.5kPa/-	-	
-	DIFF. PRESSURE GAUGE	-	kPa	-	-	
SAG10CP005	DIFF. PRESSURE GASTURBINE ROOM	ALARM		0- 2kPa/ 4-20mA	-	
-	DIFF. PRESSURE TRANSMITTER	H1	kPa	0.4	3 sec	
SAG10CP005	DIFF. PRESSURE GASTURBINE ROOM	ALARM		0- 2kPa/ 4-20mA	-	
-	DIFF. PRESSURE TRANSMITTER	L1	kPa	0.05	-	
SAG10CP010	DIFF. PRESSURE GASTURBINE ROOM FAN	ALARM		0- 2kPa/ 4-20mA	-	Low pressure (L1) initiates a fan, switch - over.
-	DIFF. PRESSURE TRANSMITTER	L1	kPa	0.15	-	
SAG10CP010	DIFF. PRESSURE GASTURBINE ROOM FAN	TRIP		0- 2kPa/ 4-20mA	-	Low pressure (L2) initiates a turbine trip after 30 seconds.
-	DIFF. PRESSURE TRANSMITTER	L2	kPa	0.1	30	

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Appr. by Nicklas Söderholm 2006-11-22	Resp. dept. GPML	06.11.13	HG 9100	-
Prepared by S.MALMLÖV	Latest rev. d	07.01.12	Doc. no	2046040
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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT MIN	NOM	MAX	
SAC10CT005	ROOM THERMOSTATE	CONTROL	°C	- / -	20	-	-
SAC20CT005	ROOM THERMOSTATE	CONTROL	°C	- / -	20	-	-

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SIEMENS

VENTILATION SYSTEM
CONTROL ROOM
SETTING LIST

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT			
		MIN	NOM	MAX	TIME DELAY		
SAE30CP020	PRESSURE GAUGE	-	kPa	0- 0.5kPa/ -			-
SAE40CP015	DIFF. PRESS. INLET FILTER, GENERATOR DIFF. PRESSURE TRANSMITTER	ALARM H1	kPa	0- 2kPa/ 4-20 mA 0,3			-
SAE40CP025	DIFF. PRESS. INLET FILTER, GENERATOR DIFF. PRESS. SWITCH WITH GAUGE	CLEANING OPERATION	kPa	-- --/ -	0,1	0,3	ON OP > 0,18 kPa OFF OP < 0,12 kPa

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			YAMAMA CEMENT	SAE	
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VENTILATION SYSTEM
EL GENERATOR

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT MIN	NOM	MAX	
SDB10AA205	PRESSURE RELIEF VALVE	SET	- /	-	70	-	MAX. UPPER LIMIT OF RANGE
SDB10CL005	LEVEL IN TANK BB005 LEVEL	-	Bar	0-80	- / -	-	-
SDB10CL010	LEVEL IN TANK BB005 LEVEL SWITCH	CONTROL	L	--	- / -	-	NO SETTING
SDB10CL015	LEVEL IN TANK BB010 LEVEL	-	L	0-80	- / -	-	-
SDB10CL020	LEVEL IN TANK BB010 LEVEL SWITCH	CONTROL	L	--	- / -	-	NO SETTING
SDB10CP005	PRESSURE AFTER PUMP AP005 PRESSURE GAUGE	-	Bar	0	70	160	-
SDB10CP010	PRESSURE AFTER PUMP AP005 PRESSURE SWITCH	CONTROL	Bar	--	- / -	300	NO SETTING
SDB10CT005	TEMPERATURE IN TANK BB005 TEMPERATURE GAUGE	-	°C	0	60	120	-
SDB10CT010	TEMPERATURE IN TANK BB005 TEMPERATUR SWITCH	CONTROL	°C	--	- / -	60	OPERATOR SETTING
SDB10CT015	TEMPERATURE IN TANK BB010 TEMPERATURE GAUGE	-	°C	0	60	120	-
SDB10CT020	TEMPERATURE IN TANK BB010 TEMPERATUR SWITCH	CONTROL	°C	--	- / -	60	OPERATOR SETTING
SDB60CL005	LEVEL IN DRAINAGE TANK LOOKING GLASS	-	m3	0.07	0.6	-	NO SETTING

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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK	
				MEASURING RANGE/OUTPUT MIN	NOM	MAX		TIME DELAY
SFY10CG005	GAS DETECTION GAS DETECTOR	ALARM H1	LEL%	0- 100LEL%/	-	10	-	HIGH GAS CONCENTRATION. START SEQ. INTERLOCK
SFY10CG005	GAS DETECTION GAS DETECTOR	TRIP H2	LEL%	0- 100LEL%/	-	25	-	HIGH-HIGH GAS CONCENTRATION
SFY10CG010	GAS DETECTION GAS DETECTOR	ALARM H1	LEL%	0- 100LEL%/	-	10	-	HIGH GAS CONCENTRATION. START SEQ. INTERLOCK.
SFY10CG010	GAS DETECTION GAS DETECTOR	TRIP H2	LEL%	0- 100LEL%/	-	25	-	HIGH-HIGH GAS CONCENTRATION

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Based on Doc no / revision	03.11.12		YAMAMA CEMENT	SFY
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KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT MIN	NOM	MAX	
SGJ10CG010	BOTTLE CONTENT IN MAIN BATTERY BOTTLES FOR GAS TURBINE ENCLOSURE	ALARM		90- 100%/ -			Not adjustable-
-	LIGHT BARRIER	L1	%	-	90	-	-
SGJ10CP005	CONFIRMATION CO2-RELEASED SWITCH	ALARM		0.4- 12MPa(g)/ -			NOT ADJUSTABLE
-	PRESSURE SWITCH	H1	MPa	0.4	6	12	0
SGJ10CC005	FIRE DETECTION GAS TURBINE ENCLOSURE	ALARM		780- 1180nm/ -			NOT ADJUSTABLE
-	IR flame detector	H1	nm	-	N/A	-	-
SGJ10CC005	FIRE DETECTION GAS TURBINE ENCLOSURE	TRIP		780- 1180nm/ -			TWO DETECTORS GIVE TRIP
-	IR flame detector	H1	nm	-	N/A	-	NOT ADJUSTABLE
SGJ10CC010	FIRE DETECTION GAS TURBINE ENCLOSURE	TRIP		780- 1180nm/ -			TWO DETECTORS GIVE TRIP
-	IR flame detector	H1	nm	-	N/A	-	NOT ADJUSTABLE
SGJ10CC010	FIRE DETECTION GAS TURBINE ENCLOSURE	ALARM		780- 1180nm/ -			NOT ADJUSTABLE
-	IR flame detector	H1	nm	-	N/A	-	-
SGJ10CC015	FIRE DETECTION GAS TURBINE ENCLOSURE	TRIP		780- 1180nm/ -			TWO DETECTORS GIVE TRIP
-	IR flame detector	H1	nm	-	N/A	-	NOT ADJUSTABLE
SGJ10CC015	FIRE DETECTION GAS TURBINE ENCLOSURE	ALARM		780- 1180nm/ -			NOT ADJUSTABLE
-	IR flame detector	H1	nm	-	N/A	-	-
SGJ10CC020	FIRE DETECTION GAS TURBINE ENCLOSURE	TRIP		780- 1180nm/ -			TWO DETECTORS GIVE TRIP
-	IR flame detector	H1	nm	-	N/A	-	NOT ADJUSTABLE
SGJ10CC020	FIRE DETECTION GAS TURBINE ENCLOSURE	ALARM		780- 1180nm/ -			NOT ADJUSTABLE
-	IR flame detector	H1	nm	-	N/A	-	-
SGJ10CG530	FIRE DETECTION AUX. ENCLOSURE	ALARM		780- 1180nm/ -			NOT ADJUSTABLE
-	IR flame detector	H1	nm	-	N/A	-	-
SGJ10CG530	FIRE DETECTION AUX. ENCLOSURE	TRIP		780- 1180nm/ -			TWO DETECTORS GIVE TRIP
-	IR flame detector	H1	nm	-	N/A	-	NOT ADJUSTABLE
SGJ10CT005	FIRE DETECTION GAS TURBINE ENCLOSURE	ALARM		0- 162°C/-			NOT ADJUSTABLE
-	HEAT DETECTOR	H1	°C	-	162	-	-
SGJ10CT005	FIRE DETECTION GAS TURBINE ENCLOSURE	TRIP		0- 162°C/-			TWO DETECTORS GIVE TRIP
-	HEAT DETECTOR	H1	°C	-	162	-	NOT ADJUSTABLE
SGJ10CT010	FIRE DETECTION GAS TURBINE ENCLOSURE	TRIP		0- 162°C/-			TWO DETECTORS GIVE TRIP
-	HEAT DETECTOR	H1	°C	-	162	-	NOT ADJUSTABLE
SGJ10CT010	FIRE DETECTION GAS TURBINE ENCLOSURE	ALARM		0- 162°C/-			NOT ADJUSTABLE
-	HEAT DETECTOR	H1	°C	-	162	-	-
SGJ10CT015	FIRE DETECTION GAS TURBINE ENCLOSURE	ALARM		0- 162°C/-			NOT ADJUSTABLE
-	HEAT DETECTOR	H1	°C	-	162	-	-
SGJ10CT015	FIRE DETECTION GAS TURBINE ENCLOSURE	TRIP		0- 162°C/-			TWO DETECTORS GIVE TRIP
-	HEAT DETECTOR	H1	°C	-	162	-	NOT ADJUSTABLE
SGJ10CT020	FIRE DETECTION GAS TURBINE ENCLOSURE	ALARM		0- 162°C/-			NOT ADJUSTABLE
-	HEAT DETECTOR	H1	°C	-	162	-	-

Remark -	year-month-day	Title	Plant	Des
Based on Doc no / revision	03.11.12	FIRE EXTINGUISHING SYSTEM CO2	YAMAMA CEMENT	SGJ
Checked by Andreas Karlsson 2006-11-22	05.04.11		Order no B4516	Archive -
Aprt. by Nicklas Söderholm 2006-11-22	06.11.13		HG 9100	Doc. no
Prepared by S.MALMLÖV	07.01.12	SETTING LIST		2046040
				Lang. E
				Sheet 27
				Tot. 28

KKS DES. CUSTOMER DES.	DESCRIPTION COMPONENT DESCRIPTION	FUNCTION	UNIT	SETTING			REMARK
				MEASURING RANGE/OUTPUT MIN NOM MAX TIME DELAY			
SGJ10CT020	FIRE DETECTION GAS TURBINE ENCLOSURE HEAT DETECTOR	TRIP H1	°C	0- 162°C/-	162	-	TWO DETECTORS GIVE TRIP NOT ADJUSTABLE
SGJ10CT515	FIRE DETECTION AUX. ENCLOSURE HEAT DETECTOR	TRIP H1	°C	0- 110°C/-	94-110	-	TWO DETECTORS GIVE TRIP NOT ADJUSTABLE
SGJ10CT515	FIRE DETECTION AUX. ENCLOSURE HEAT DETECTOR	ALARM H1	°C	0- 110°C/-	94-110	-	NOT ADJUSTABLE
SGJ10CT520	FIRE DETECTION AUX. ENCLOSURE HEAT DETECTOR	ALARM H1	°C	0- 110°C/-	94-110	-	NOT ADJUSTABLE
SGJ10CT520	FIRE DETECTION AUX. ENCLOSURE HEAT DETECTOR	TRIP H1	°C	0- 110°C/-	94-110	-	TWO DETECTORS GIVE TRIP NOT ADJUSTABLE

This document is issued in Pulse.

Remark -	year-month-day	Title	Plant	Des
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Appr. by Nicklas Söderholm 2006-11-22	06.11.13		HG 9100	Doc. no
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			Sheet	28
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SIEMENS