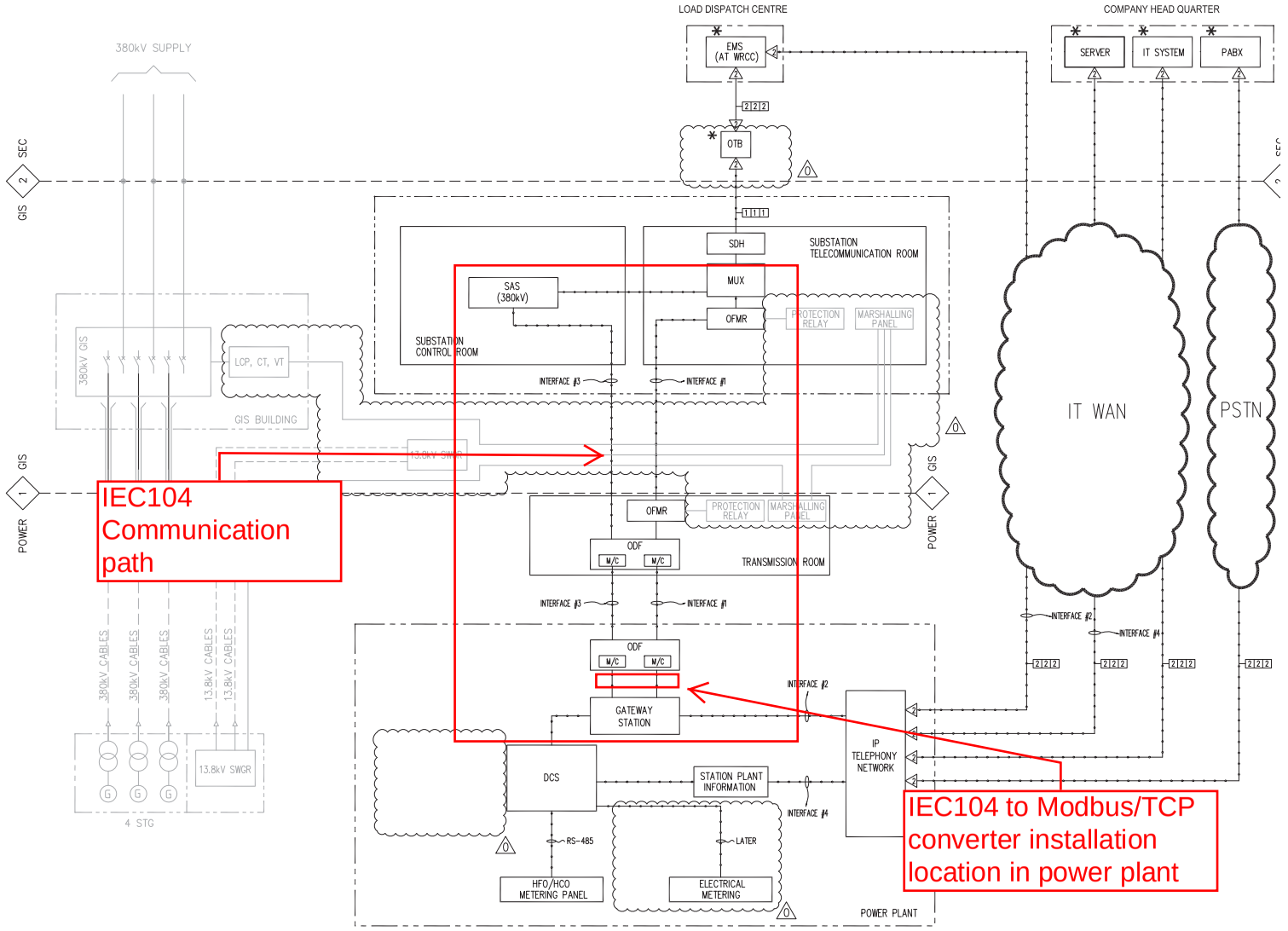
ATTACHMENT #2

INTERFACE DESIGN INFORMATION DIAGRAM FOR I&C SYSTEM



NOTE

INTERFACE DESIGN INFORMATION DIAGRAM FOR I&C SYSTEM

INTERFACE #1

ITEM	DESCRIPTION	REMARK
FROM / TO	POWER PLANT GATEWAY STATION / LDC	
MEDIA	F.O. CABLE (MULTI MODE)	
PROTOCOL	IEC-60870-5-104	
INTERFACE	- MAX. POSSIBLE ACTIVE POWER OUPUT - MIN. POSSIBLE ACTIVE POWER OUTPUT - PRIMARY RESPONSE MARGIN. - SECONDARY RESPONSE MARGIN. - MAX. POSSIBLE MW RATE OF POWER CHANGE(UP,DOWN) - ACTIVE POWER PRODUCED BY THE GENERATOR - REACTIVE POWER PRODUCED BY THE GENERATOR - GENERATOR TERMINAL VOLTAGE - GENERATOR STEP-UP TRANSFORMER TAP POSITION - MVAR RESERVE MARGIN - FREQUENCY - TURBINE AVAILABLE/NOT AVAILABLE - TURBINE IN OPERATION YES/NO - TURBINE TRIP △0	GATEWAY STATION -> LDC
	- AGC ON/OFF - ACTIVE POWER SET POINT [C] - REACTIVE POWER/POWER FACTOR SET POINT	LDC -> GATEWAY STATION

INTERFACE #2

ITEM	DESCRIPTION	REMARK
FROM / TO	POWER PLANT GATEWAY STATION / LDC	
MEDIA	F.O. CABLE (MULTI MODE)	
PROTOCOL	ICCP	
INTERFACE	- MAX. POSSIBLE ACTIVE POWER OUPUT - MIN. POSSIBLE ACTIVE POWER OUTPUT - PRIMARY RESPONSE MARGIN. - SECONDARY RESPONSE MARGIN. - MAX. POSSIBLE MW RATE OF POWER CHANGE(UP,DOWN) - ACTIVE POWER PRODUCED BY THE GENERATOR - REACTIVE POWER PRODUCED BY THE GENERATOR - GENERATOR TERMINAL VOLTAGE - GENERATOR STEP-UP TRANSFORMER TAP POSITION - MVAR RESERVE MARGIN - FREQUENCY - TURBINE AVAILABLE/NOT AVAILABLE - TURBINE IN OPERATION YES/NO - TURBINE TRIP △0	GATEWAY STATION -> LDC
	- AGC ON/OFF - ACTIVE POWER SET POINT [C] - REACTIVE POWER/POWER FACTOR SET POINT	LDC -> GATEWAY STATION

INTERFACE #3

ITEM	DESCRIPTION	REMARK
FROM / TO	POWER PLANT GATEWAY STATION / GIS SAS	
MEDIA	F.O. CABLE (MULTI MODE)	
PROTOCOL	IEC-60870-5-104(TO BE FINALIZED LATER)	
INTERFACE	1. GENERAL - BUSBAR VOLTAGES OF EACH SECTION 2. FOR EACH GENERATOR FEEDER - VOLTAGE OF EACH LINE SIDE PHASE FOR INDICATION - ACTIVE POWER - REACTIVE POWER - FREQUENCY △0	SAS -> GATEWAY STATION

INTERFACE #4

ITEM	DESCRIPTION	REMARK
FROM / TO	STATION PLANT INFORMATION / COMPANY'S HEADQUARTER	
MEDIA	LATER	
PROTOCOL	LATER	
INTERFACE	POWER PLANT OPERATING INFORMATION	STATION PLANT INFORMATION -> COMPANY'S HEADQUARTER

A3(297×420)

ATTACHMENT #3

Communication Interface for LDC (LDC <-> Power plant Interface)

TCP/IP Communication using IEC-60870-5-104 protocol

The parameter and address map should be matched between master and slave, to communicate according to IEC 60870-5-104 protocol.
We will set the parameter and address map to communicate master(and slave) as follow. So, the opposite communication module must match them as follow.

1) General Set-up Parameter which recommended by DCS

	Layer	Item	Sub item	LDC IEC 104	Power plant IEC 104	Result (Note 1)
1	Physical Layer	Primary Slave	IP Address	182.16.160.xxx	182.16.160.xxx	
			Port No.	2404	2404	
		Secondary Slave	IP Address	182.17.160.xxx	182.16.160.xxx	
			Port No.	2404	2404	
		Primary Master	IP Address	182.16.160.xxx	182.16.160.xxx	
			Port No.	2414	2414	
		Secondary Master	IP Address	182.17.160.xxx	182.17.160.xxx	
			Port No.	2414	2414	
2	Application Layer	Common Address of ASDU	No. of Octets	2 Octet	2 Octet	
			Address	10	20	
		Address of Information Object	No. of Octets	3 Octets	3 Octets	
		Cause of Transmission	No. of Octets	2 Octet	2 Octet	

Note. : 1. Fill-up if follow recommend set-up data "OK" , else please fill up your value on this column

2) Address Map

No.	Type Identification	Code	Start Address	End Address
1	Single Point Information with time tag CP56Time2a	M_SP_TB_1	10000	14999
2	Double Point Information with time tag CP56Time2a	M_DP_TB_1	15000	19999
3	Measured Value, normalized value	M_ME_NA_1	20000	24999

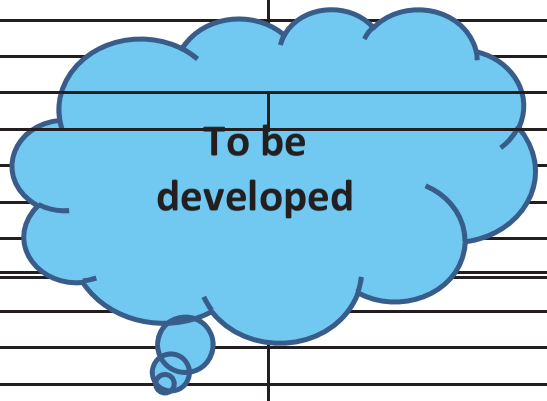
Communication Interface for LDC (LDC <-> Power plant Interface)

Communication using ICCP(IEC-60870-6/TASE.2) protocol

The parameter and address map should be matched between master and slave, to communicate according to IEC 60870-5-104 protocol.
We will set the parameter and address map to communicate master(and slave) as follow. So, the opposite communication module must match them as follow.

1) General Set-up Parameter which recommended by DCS

	Layer	Item	Sub item	LDC ICCP	Power plant ICCP	Result (Note 1)
1	Physical Layer	Primary Slave	IP Address			
			Port No.			
		Secondary Slave	IP Address			
			Port No.			
		Primary Master	IP Address			
			Port No.			
		Secondary Master	IP Address			
			Port No.			
2	Application Layer	Common Address of ASDU	No. of Octets			
			Address			
		Address of Information Object	No. of Octets			
		Cause of Transmission	No. of Octets			



Note. : 1. Fill-up if follow recommend set-up data "OK" , else please fill up your value on this column

2) Address Map

No.	Type Identification	Code	Start Address	End Address
1	Single Point Information with time tag CP56Time2a	M_SP_TB_1	10000	14999
2	Double Point Information with time tag CP56Time2a	M_DP_TB_1	15000	19999
3	Measured Value, normalized value	M_ME_NA_1	20000	24999

COMMUNICATION POINT LIST FOR LOAD DISPATCH CENTER

SIGNAL DESCRIPTION	IEC...104 MASTER (M) / SLAVE (S) ASSIGNMENT		IEC...104 INFORMATION													DEAD BAND (1 % OF MAX. RANGE)	Remarks	SIGNAL MANAGEMENT by POWER PLANT		
			ASDU TYPE (SIGNAL TYPE)	LINK ADDRESS (RTU NO. ADDRESS)	ASDU ADDRESS (STATION ADDRESS)	INFORMATION OBJECT (SIGNAL IEC ADDRESS)	BIT CONVERSION ("DI" ONLY)				UNIT ("AI" ONLY)	RAW VALUE ("AI" ONLY)		ENGINEERING VALUE ("AI" ONLY)						
	Power	LDC					00 DDI 0 SDI	01 DDI 1 SDI	10 DDI	11 DDI		MIN	MAX	MIN	MAX			Reference DCS TAG No.	Technical Note	Remarks
JSTPP STAGE-1																				
JSTPP STAGE-1 MAXIMUM POSSIBLE ACTIVE POWER OUTPUT	S	M	M_ME_NA_1			20001	-	-	-	-	MW/h	0	1	0	3000	30			Sum of ST #11, #12, #13, #14	
JSTPP STAGE-1 MINIMUM POSSIBLE ACTIVE POWER OUTPUT	S	M	M_ME_NA_1			20002	-	-	-	-	MW/h	0	1	0	3000	30			Sum of ST #11, #12, #13, #14	
JSTPP STAGE-1 PRIMARY RESPONSE MARGIN	S	M	M_ME_NA_1			20003	-	-	-	-	MW/m	0	1	0	80	8			Sum of ST #11, #12, #13, #14	
JSTPP STAGE-1 SECONDARY RESPONSE MARGIN	S	M	M_ME_NA_1			20004	-	-	-	-	MW/m	0	1	0	80	8			Sum of ST #11, #12, #13, #14	
JSTPP STAGE-1 MAXIMUM POSSIBLE MW RATE OF POWER CHANGE (UP, DOWN)	S	M	M_ME_NA_1			20005	-	-	-	-	%	0	1	0	10	0.1			Average of ST #11, #12, #13, #14	
JSTPP STAGE-1 ACTIVE POWER	S	M	M_ME_NA_1			20006	-	-	-	-	MW/h	-1	1	-3000	3000	30			Sum of ST #11, #12, #13, #14	
JSTPP STAGE-1 REACTIVE POWER	S	M	M_ME_NA_1			20007	-	-	-	-	MVAR/h	-1	1	-3000	3000	30			Sum of ST #11, #12, #13, #14	
JSTPP STAGE-1 AGC ON / OFF	M	S	M_SP_TB_1			10001	OFF	ON											MW Control ON from LDC	
JSTPP STAGE-1 ACTIVE POWER SET POINT	M	S	M_ME_NA_1			20008	-	-	-	-	MW/h	0	1	0	3000	30			MW Control(MW/h) from LDC	
STG #11																				
STG#11 MAXIMUM POSSIBLE ACTIVE POWER OUTPUT	S	M	M_ME_NA_1			20009	-	-	-	-	MW/h	0	1	0	800	8			Manual Input on HMI, Default value : XX MW/h	
STG#11 MINIMUM POSSIBLE ACTIVE POWER OUTPUT	S	M	M_ME_NA_1			20010	-	-	-	-	MW/h	0	1	0	800	8			Manual Input on HMI, Default value : XX MW/h	
STG#11 PRIMARY RESPONSE MARGIN	S	M	M_ME_NA_1			20011	-	-	-	-	MW/m	0	1	0	20	0.2			Fixed Value : XX MW/h	
STG#11 SECONDARY RESPONSE MARGIN	S	M	M_ME_NA_1			20012	-	-	-	-	MW/m	0	1	0	20	0.2			Fixed Value : XX MW/h	
STG#11 MAXIMUM POSSIBLE MW RATE OF POWER CHANGE (UP, DOWN)	S	M	M_ME_NA_1			20013	-	-	-	-	%	0	1	0	10	0.1				
STG#11 ACTIVE POWER	S	M	M_ME_NA_1			20014	-	-	-	-	MW/h	-1	1	-800	800	8				
STG#11 REACTIVE POWER	S	M	M_ME_NA_1			20015	-	-	-	-	MVAR/h	-1	1	-800	800	8				
STG#11 TERMINAL VOLTAGE	S	M	M_ME_NA_1			20016	-	-	-	-	kV	0	1	0	22	0.22				
STG#11 STEP-UP TRANSFORMER TAP POSITION	S	M	M_ME_NA_1			20017	-	-	-	-		0	1	1	25	0.5				
STG#11 MVAR RESERVE MARGIN	S	M	M_ME_NA_1			20018	-	-	-	-	MVAR/h	0	1	0	800	8			Manual Input on HMI	
STG#11 FREQUENCY	S	M	M_ME_NA_1			20019	-	-	-	-	Hz	0	1	0	70	0.7				
STG#11 ACTIVE POWER CONTROL LOCAL/REMOTE	S	M	M_SP_TB_1			10002	LOCAL	REMOTE												
STG#11 REACTIVE POWER/ POWER FACTOR CONTROL REMOTE/LOCAL	S	M	M_SP_TB_1			10003	LOCAL	REMOTE												
STG#11 PRIMARY CONTROLLER FREQ RESPONSE ON/OFF	S	M	M_SP_TB_1			10004	OFF	ON											Maual Input on HMI	
STG#11 TURBINE AVAILABLE/NOT AVAILABLE	S	M	M_SP_TB_1			10005	NOT AVAIL	AVAIL												
STG#11 TURBINE IN OPERATION YES/NO	S	M	M_SP_TB_1			10006	NO	YES												
STG#11 TURBINE TRIP	S	M	M_SP_TB_1			10007	NORMAL	TRIPPED												
STG#11 AGC ON / OFF	M	S	M_SP_TB_1			10008	OFF	ON											MW Control ON from LDC	
STG#11 AVR ON / OFF	M	S	M_SP_TB_1			10126	OFF	ON											AVR Control ON from LDC	
STG#11 REACTIVE POWER SET POINT	M	S	M_ME_NA_1			20151	-	-	-	-	MVar/h	0	1	0	800	8			Reactive Power Set point from LDC	
STG #12																				
STG#12 MAXIMUM POSSIBLE ACTIVE POWER OUTPUT	S	M	M_ME_NA_1			20021	-	-	-	-	MW/h	0	1	0	800	8			Manual Input on HMI, Default value : XX MW/h	
STG#12 MINIMUM POSSIBLE ACTIVE POWER OUTPUT	S	M	M_ME_NA_1			20022	-	-	-	-	MW/h	0	1	0	800	8			Manual Input on HMI, Default value : XX MW/h	
STG#12 PRIMARY RESPONSE MARGIN	S	M	M_ME_NA_1			20023	-	-	-	-	MW/m	0	1	0	20	0.2			Fixed Value : XX MW/h	
STG#12 SECONDARY RESPONSE MARGIN	S	M	M_ME_NA_1			20024	-	-	-	-	MW/m	0	1	0	20	0.2			Fixed Value : XX MW/h	
STG#12 MAXIMUM POSSIBLE MW RATE OF POWER CHANGE (UP, DOWN)	S	M	M_ME_NA_1			20025	-	-	-	-	%	0	1	0	10	0.1				

COMMUNICATION POINT LIST FOR LOAD DISPATCH CENTER

SIGNAL DESCRIPTION	IEC...104 MASTER (M) / SLAVE (S) ASSIGNMENT		IEC...104 INFORMATION													DEAD BAND (1 % OF MAX. RANGE)	Remarks	SIGNAL MANAGEMENT by POWER PLANT		
			ASDU TYPE (SIGNAL TYPE)	LINK ADDRESS (RTU IEC ADDRESS)	ASDU ADDRESS (STATION ADDRESS)	INFORMATION OBJECT (SIGNAL IEC ADDRESS)	BIT CONVERSION ("DI" ONLY)				UNIT ("AI" ONLY)	RAW VALUE ("AI" ONLY)		ENGINEERING VALUE ("AI" ONLY)						
	Power	LDC					00 DDI 0 SDI	01 DDI 1 SDI	10 DDI	11 DDI		MIN	MAX	MIN	MAX			Reference DCS TAG No.	Technical Note	Remarks
STG#12 TERMINAL VOLTAGE	S	M	M_ME_NA_1			20028	-	-	-	-	kV	0	1	0	22	0.22				
STG#12 STEP-UP TRANSFORMER TAP POSITION	S	M	M_ME_NA_1			20029	-	-	-	-		0	1	1	25	0.5				
STG#12 MVAR RESERVE MARGIN	S	M	M_ME_NA_1			20030	-	-	-	-	MVAR/h	0	1	0	800	8			Manual Input on HMI	
STG#12 FREQUENCY	S	M	M_ME_NA_1			20031	-	-	-	-	Hz	0	1	0	70	0.7				
STG#12 ACTIVE POWER CONTROL LOCAL/REMOTE	S	M	M_SP_TB_1			10009	LOCAL	REMOTE												
STG#12 REACTIVE POWER/ POWER FACTOR CONTROL REMOTE/LOCAL	S	M	M_SP_TB_1			10010	LOCAL	REMOTE												
STG#12 PRIMARY CONTROLLER FREQ RESPONSE ON/OFF	S	M	M_SP_TB_1			10011	OFF	ON											Maual Input on HMI	
STG#12 TURBINE AVAILABLE/NOT AVAILABLE	S	M	M_SP_TB_1			10012	NOT AVAIL	AVAIL												
STG#12 TURBINE IN OPERATION YES/NO	S	M	M_SP_TB_1			10013	NO	YES												
STG#12 TURBINE TRIP	S	M	M_SP_TB_1			10014	NORMAL	TRIPPED												
STG#12 AGC ON / OFF	M	S	M_SP_TB_1			10015	OFF	ON											MW Control ON from LDC	
STG#12 AVR ON / OFF	M	S	M_SP_TB_1			10127	OFF	ON											AVR Control ON from LDC	
STG#12 REACTIVE POWER SET POINT	M	S	M_ME_NA_1			20152	-	-	-	-	MVar/h	0	1	0	800	8			Reactive Power Set point from LDC	
STG #13																				
STG#13 MAXIMUM POSSIBLE ACTIVE POWER OUTPUT	S	M	M_ME_NA_1			20033	-	-	-	-	MW/h	0	1	0	800	8			Manual Input on HMI, Default value : XX MW/h	
STG#13 MINIMUM POSSIBLE ACTIVE POWER OUTPUT	S	M	M_ME_NA_1			20034	-	-	-	-	MW/h	0	1	0	800	8			Manual Input on HMI, Default value : XX MW/h	
STG#13 PRIMARY RESPONSE MARGIN	S	M	M_ME_NA_1			20035	-	-	-	-	MW/m	0	1	0	20	0.2			Fixed Value : XX MW/h	
STG#13 SECONDARY RESPONSE MARGIN	S	M	M_ME_NA_1			20036	-	-	-	-	MW/m	0	1	0	20	0.2			Fixed Value : XX MW/h	
STG#13 MAXIMUM POSSIBLE MW RATE OF POWER CHANGE (UP, DOWN)	S	M	M_ME_NA_1			20037	-	-	-	-	%	0	1	0	10	0.1				
STG#13 ACTIVE POWER	S	M	M_ME_NA_1			20038	-	-	-	-	MW/h	-1	1	-800	800	8				
STG#13 REACTIVE POWER	S	M	M_ME_NA_1			20039	-	-	-	-	MVAR/h	-1	1	-800	800	8				
STG#13 TERMINAL VOLTAGE	S	M	M_ME_NA_1			20040	-	-	-	-	kV	0	1	0	22	0.22				
STG#13 STEP-UP TRANSFORMER TAP POSITION	S	M	M_ME_NA_1			20041	-	-	-	-		0	1	1	25	0.5				
STG#13 MVAR RESERVE MARGIN	S	M	M_ME_NA_1			20042	-	-	-	-	MVAR/h	0	1	0	800	8			Manual Input on HMI	
STG#13 FREQUENCY	S	M	M_ME_NA_1			20043	-	-	-	-	Hz	0	1	0	70	0.7				
STG#13 ACTIVE POWER CONTROL LOCAL/REMOTE	S	M	M_SP_TB_1			10016	LOCAL	REMOTE												
STG#13 REACTIVE POWER/ POWER FACTOR CONTROL REMOTE/LOCAL	S	M	M_SP_TB_1			10017	LOCAL	REMOTE												
STG#13 PRIMARY CONTROLLER FREQ RESPONSE ON/OFF	S	M	M_SP_TB_1			10018	OFF	ON											Maual Input on HMI	
STG#13 TURBINE AVAILABLE/NOT AVAILABLE	S	M	M_SP_TB_1			10019	NOT AVAIL	AVAIL												
STG#13 TURBINE IN OPERATION YES/NO	S	M	M_SP_TB_1			10020	NO	YES												
STG#13 TURBINE TRIP	S	M	M_SP_TB_1			10021	NORMAL	TRIPPED												
STG#13 AGC ON / OFF	M	S	M_SP_TB_1			10022	OFF	ON											MW Control ON from LDC	
STG#13 AVR ON / OFF	M	S	M_SP_TB_1			10128	OFF	ON											AVR Control ON from LDC	
STG#13 REACTIVE POWER SET POINT	M	S	M_ME_NA_1			20153	-	-	-	-	MVar/h	0	1	0	800	8			Reactive Power Set point from LDC	
STG #14																				
STG#14 MAXIMUM POSSIBLE ACTIVE POWER OUTPUT	S	M	M_ME_NA_1			20045	-	-	-	-	MW/h	0	1	0	800	8			Manual Input on HMI, Default value : XX MW/h	
STG#14 MINIMUM POSSIBLE ACTIVE POWER OUTPUT	S	M	M_ME_NA_1			20046	-	-	-	-	MW/h	0	1	0	800	8			Manual Input on HMI, Default value : XX MW/h	

COMMUNICATION POINT LIST FOR LOAD DISPATCH CENTER

SIGNAL DESCRIPTION	IEC...104 MASTER (M) / SLAVE (S) ASSIGNMENT		IEC...104 INFORMATION														Remarks	SIGNAL MANAGEMENT by POWER PLANT		
			ASDU TYPE (SIGNAL TYPE)	LINK ADDRESS (RTU NO. ADDRESS)	ASDU ADDRESS (STATION ADDRESS)	INFORMATION OBJECT (SIGNAL IEC ADDRESS)	BIT CONVERSION ("DI" ONLY)				UNIT ("AI" ONLY)	RAW VALUE ("AI" ONLY)		ENGINEERING VALUE ("AI" ONLY)		DEAD BAND (1 % OF MAX. RANGE)				
	Power	LDC					00 DDI 0 SDI	01 DDI 1 SDI	10 DDI	11 DDI		MIN	MAX	MIN	MAX			Reference DCS TAG No.	Technical Note	Remarks
STG#14 MAXIMUM POSSIBLE MW RATE OF POWER CHANGE (UP, DOWN)	S	M	M_ME_NA_1			20049	-	-	-	-	%	0	1	0	10	0.1				
STG#14 ACTIVE POWER	S	M	M_ME_NA_1			20050	-	-	-	-	MW/h	-1	1	-800	800	8				
STG#14 REACTIVE POWER	S	M	M_ME_NA_1			20051	-	-	-	-	MVAR/h	-1	1	-800	800	8				
STG#14 TERMINAL VOLTAGE	S	M	M_ME_NA_1			20052	-	-	-	-	kV	0	1	0	22	0.22				
STG#14 STEP-UP TRANSFORMER TAP POSITION	S	M	M_ME_NA_1			20053	-	-	-	-		0	1	1	25	0.5				
STG#14 MVAR RESERVE MARGIN	S	M	M_ME_NA_1			20054	-	-	-	-	MVAR/h	0	1	0	800	8			Manual Input on HMI	
STG#14 FREQUENCY	S	M	M_ME_NA_1			20055	-	-	-	-	Hz	0	1	0	70	0.7				
STG#14 ACTIVE POWER CONTROL LOCAL/REMOTE	S	M	M_SP_TB_1			10023	LOCAL	REMOTE												
STG#14 REACTIVE POWER/ POWER FACTOR CONTROL REMOTE/LOCAL	S	M	M_SP_TB_1			10024	LOCAL	REMOTE												
STG#14 PRIMARY CONTROLLER FREQ RESPONSE ON/OFF	S	M	M_SP_TB_1			10025	OFF	ON											Maual Input on HMI	
STG#14 TURBINE AVAILABLE/NOT AVAILABLE	S	M	M_SP_TB_1			10026	NOT AVAIL	AVAIL												
STG#14 TURBINE IN OPERATION YES/NO	S	M	M_SP_TB_1			10027	NO	YES												
STG#14 TURBINE TRIP	S	M	M_SP_TB_1			10028	NORMAL	TRIPPED												
STG#14 AGC ON / OFF	M	S	M_SP_TB_1			10029	OFF	ON											MW Control ON from LDC	
STG#14 AVR ON / OFF	M	S	M_SP_TB_1			10129	OFF	ON											AVR Control ON from LDC	
STG#14 REACTIVE POWER SET POINT	M	S	M_ME_NA_1			20154	-	-	-	-	MVar/h	0	1	0	800	8			Reactive Power Set point from LDC	

COMMUNICATION POINT LIST FOR LOAD DISPATCH CENTER

SIGNAL DESCRIPTION	IEC...104 MASTER (M) / SLAVE (S) ASSIGNMENT		IEC...104 INFORMATION													DEAD BAND (1 % OF MAX. RANGE)	Remarks	SIGNAL MANAGEMENT by POWER PLANT		
			ASDU TYPE (SIGNAL TYPE)	LINK ADDRESS (RTU IEC ADDRESS)	ASDU ADDRESS (STATION ADDRESS)	INFORMATION OBJECT (SIGNAL IEC ADDRESS)	BIT CONVERSION ("DI" ONLY)				UNIT ("AI" ONLY)	RAW VALUE ("AI" ONLY)		ENGINEERING VALUE ("AI" ONLY)						
	Power	LDC					00 DDI 0 SDI	01 DDI 1 SDI	10 DDI	11 DDI		MIN	MAX	MIN	MAX			Reference DCS TAG No.	Technical Note	Remarks
GIS 13.8kV SWGR																				
PP 13.8kV PC FDR1 CB OPEN/CLOSE	S	M	M_DP_TB_1			15001	ANOMALY	OPEN	CLOSE	ANOMALY										
PP 13.8kV PC FDR1 CB LOCAL/REMOTE	S	M	M_DP_TB_1			15002	ANOMALY	LOCAL	REMOTE	ANOMALY										
PP 13.8kV PC FDR1 CB SERVICE/TEST	S	M	M_DP_TB_1			15003	ANOMALY	SERVICE	TEST	ANOMALY										
PP 13.8kV PC FDR1 CB DC OFF	S	M	M_SP_TB_1			10133	NORMAL	OFF												
PP 13.8kV PC FDR1 CB LOCKOUT OPERATED	S	M	M_SP_TB_1			10134	NORMAL	TRIPPED												
PP 13.8kV PC FDR2 CB OPEN/CLOSE	S	M	M_DP_TB_1			15011	ANOMALY	OPEN	CLOSE	ANOMALY										
PP 13.8kV PC FDR2 CB LOCAL/REMOTE	S	M	M_DP_TB_1			15012	ANOMALY	LOCAL	REMOTE	ANOMALY										
PP 13.8kV PC FDR2 CB SERVICE/TEST	S	M	M_DP_TB_1			15013	ANOMALY	SERVICE	TEST	ANOMALY										
PP 13.8kV PC FDR2 CB DC OFF	S	M	M_SP_TB_1			10135	NORMAL	OFF												
PP 13.8kV PC FDR2 CB LOCKOUT OPERATED	S	M	M_SP_TB_1			10136	NORMAL	TRIPPED												