




		LISTA DE SEÑALES									
		ANEXO 2									
		PROYECTO:		EVALUACIÓN Y TDR DE MODERNIZACION DEL SISTEMA DE CONTROL							
CLIENTE:		EGEMSA		CODIGO:		TES_EGM_2020_07_LS					
I. DATOS GENERALES											
SISTEMA:		SISTEMA DE CONTROL FASE I			SUB SISTEMA:		SISTEMA DE CONTROL DE UNIDAD				
HARDWARE:		PLC MAIN GRUPO 1			FUENTE:		APLICACIÓN PLC				
TIPO:		HARDWARE INPUTS / LOGICALS									
II. TABLA DE DATOS											
ITEM	ADDRESS	MNEMONIC	LABEL	STATE 1	TO CTRLG	VAR REF	STD	TO MMI	TO S8000-E	TO F8000	LOCATION
1	%I0001	li_gta_pol_main_r0_sl5	G1 POLARIDAD MAIN SLOT 5	PRESENC	S	01GTA_POL_MAIN_R0_SL5	2	S			RACK:0 SLOT:05 POINT:01
2	%I0002	li_gta_sincro_main	PULSO DE SINCRONIZACION	PRESENC			2				RACK:0 SLOT:05 POINT:02
3	%I0003	li_gta_004ar_rem	G1 SELEC NIVEL DE MANDO REMOTO	REMOTO	S	01GTA_004AR_REM	2	S			RACK:0 SLOT:05 POINT:03
4	%I0004						2				RACK:0 SLOT:05 POINT:04
5	%I0005	li_gta_004ar_paro_em	G1 BOTON PARADA DE EMERGENCIA	PARO	S	01GTA_004AR_PARO_EM	11	S			RACK:0 SLOT:05 POINT:05
6	%I0006						2				RACK:0 SLOT:05 POINT:06
7	%I0007	li_gta_220vac_alim_es	G1 ALIMENTACION 220VAC (NO UPS)	CERRADO	S	01GTA_220VAC ALIM_ES	12	S			RACK:0 SLOT:05 POINT:07
8	%I0008						2				RACK:0 SLOT:05 POINT:08
9	%I0009	li_gta_venti_plcs	G1 ALIMENTACION VENTILADOR PLC	CERRADO	S	01GTA_VENTI_PLCS	12	S			RACK:0 SLOT:05 POINT:09
10	%I0010						1				RACK:0 SLOT:05 POINT:10
11	%I0011	li_gta_pres_fren_norm	G1 PRESION EN EL TANQUE DE FRENADO	NORMAL	S	01GTA_PRES_FREN_NORM	2	S			RACK:0 SLOT:05 POINT:11
12	%I0012	li_gal30_33_apli_fren	G1 GENERADOR FRENOS APLICADOS	PRESENC	S	01GAL30_33_APLI_FREN	2	S			RACK:0 SLOT:05 POINT:12
13	%I0013						2				RACK:0 SLOT:05 POINT:13
14	%I0014	li_gta_selecc_bit0	IDENTIFICACION DE BIT 0	SELECC			2				RACK:0 SLOT:05 POINT:14
15	%I0015	li_gta_selecc_bit1	IDENTIFICACION DE BIT 1	SELECC			2				RACK:0 SLOT:05 POINT:15
16	%I0016						2				RACK:0 SLOT:05 POINT:16
17	%I0017	li_gta_21htc001fc_cvo	G1 VALVULA MARIPOSA	ABIERTO		01GTA_21HTC001FC_CVO	2	S			RACK:0 SLOT:05 POINT:17
18	%I0018	li_gta_00kmh5sn_mb	G1 NIVEL DE LA CAMARA DE CARGA	DEM-BAJO		01GTA_00KMh5SN_MB	2	S			RACK:0 SLOT:05 POINT:18
19	%I0019	li_gta_00kmh103sn_mb	G1 NIVEL DE LA CAMARA DE CARGA	MUY-BAJO	S	01GTA_00KMh103SN_MB	2	S			RACK:0 SLOT:05 POINT:19
20	%I0020						2				RACK:0 SLOT:05 POINT:20
21	%I0021						1				RACK:0 SLOT:05 POINT:21
22	%I0022	li_gre_r129_falla	G1 FALLA MENOR TSLG	FALLA	S	01GRE_R129_FALLA	21	S			RACK:0 SLOT:05 POINT:22
23	%I0023	li_gre_r300a_loc_a	G1 TSLG LOCAL AUTO	DETECT	S	01GRE_R300A_LOC_A	2	S			RACK:0 SLOT:05 POINT:23
24	%I0024	li_gre_r300m_loc_m	G1 TSLG LOCAL MANUAL	DETECT	S	01GRE_R300M_LOC_M	2	S			RACK:0 SLOT:05 POINT:24
25	%I0025	li_gre_r300_dist	G1 TSLG DISTANCIA	REMOTO	S	01GRE_R300_DIST	2	S			RACK:0 SLOT:05 POINT:25
26	%I0026						2				RACK:0 SLOT:05 POINT:26
27	%I0027						2				RACK:0 SLOT:05 POINT:27
28	%I0028						2				RACK:0 SLOT:05 POINT:28
29	%I0029						2				RACK:0 SLOT:05 POINT:29
30	%I0030						2				RACK:0 SLOT:05 POINT:30
31	%I0031						2				RACK:0 SLOT:05 POINT:31
32	%I0032	li_gta_polar_s_dig	G1 PRESENCIA POLARIDAD SALIDAS	PRESENC	S	01GTA_POLAR_S_DIG	2	S			RACK:0 SLOT:05 POINT:32
33	%I1505	li_gta_pol_main_r1_sl1	G1 POLAR MAIN RI SLT1	PRESENC	S	01GTAPOL_MAIN_RI_SL1	2	S			RACK:1 SLOT:01 POINT:01
34	%I1506						1				RACK:1 SLOT:01 POINT:02
35	%I1507	li_gta005jc_cerr	G1 ARRANCADOR BOMBA INYECCION	DIR	S	01GTA005JC_CERR	2	S			RACK:1 SLOT:01 POINT:03
36	%I1508	li_gta005jc_falla	G1 ARRANCADOR FALLA BOMBA INYECC	FALLA	S	01GTA005JC_FALLA	21	S			RACK:1 SLOT:01 POINT:04
37	%I1509	li_gta005jc_rem	G1 ARRANCADOR BOMBA DE INYECCION NC	REMOTO	S	01GTA005JC_REM	2	S			RACK:1 SLOT:01 POINT:05
38	%I1510	li_gta006jc_cerr	G1 CALEFACCION DE GENERADOR	CERRADO	S	01GTA006JC_CERR	2	S			RACK:1 SLOT:01 POINT:06
39	%I1511	li_gta006jc_falla	G1 ARRANCADOR CALEFACT GEN FA	FALLA	S	01GTA006JC_FALLA	21	S			RACK:1 SLOT:01 POINT:07
40	%I1512	li_gta006jc_rem	G1 ARRANCADOR CALEFACT GEN RE	REMOTO	S	01GT006JC_REM	2				RACK:1 SLOT:01 POINT:08
41	%I1513	li_gta007jc_cerr	G1 ARRANCADOR EXTRACTOR GEN A	CERRADO	S	01GTA007JC_CERR	2	S			RACK:1 SLOT:01 POINT:09
42	%I1514	li_gta007jc_falla	G1 ARRANCADOR EXTRACTOR GEN FA	FALLA	S	01GTA007JC_FALLA	21	S			RACK:1 SLOT:01 POINT:10
43	%I1515	li_gta007jc_rem	G1 ARRANCADOR EXTRACTOR GEN RE	REMOTO	S	01GTA007JC_REM	2				RACK:1 SLOT:01 POINT:11
44	%I1516	li_gta009jc_cerr	G1 ARRANCADOR EXTRACTOR TURBINA	CERRADO	S	01GTA009JC_CERR	2	S			RACK:1 SLOT:01 POINT:12
45	%I1517	li_gta009jc_falla	G1 ARRANCADOR EXTRACTOR TURBINA	FALLA	S	01GTA009JC_FALLA	21	S			RACK:1 SLOT:01 POINT:13
46	%I1518	li_gta009jc_rem	G1 ARRANCADOR EXTRACTOR TURBINA	REMOTO	S	01GTA009JC_REM	2				RACK:1 SLOT:01 POINT:14

[illegible]





		LISTA DE SEÑALES									
		ANEXO 2									
		EVALUACIÓN Y TDR DE MODERNIZACION DEL SISTEMA DE CONTROL									
		EGEMSA									
I. DATOS GENERALES											
SISTEMA:		SISTEMA DE CONTROL FASE I				SUB SISTEMA:		SISTEMA DE CONTROL DE UNIDAD			
HARDWARE:		PLC MAIN GRUPO 1				FUENTE:		APLICACIÓN PLC			
TIPO:		HARDWARE OUTPUT / LOGICAL									
ITEM	ADDRESS	MNEMONIC	LABEL	STATE 1	TO CTRLG	VAR REF	STD	TO MMI	TO S8000-E	LOCATION	
1	%Q0001						1			RACK:0 SLOT:06 POINT:01	
2	%Q0002	lo_gla003jc_c_arrq	G1 ACEITE REGUL BOM 01GRE_AE	ARANQUE	S	01GTA003JC_C_ARRO	2			RACK:0 SLOT:06 POINT:02	
3	%Q0003						2			RACK:0 SLOT:06 POINT:03	
4	%Q0004	lo_gre_ba_s_defl_ap	G1 ACEITE REGUL DEFLECTOR	APERTURA	S	01GRE_BA_S_DEFL_AP	2			RACK:0 SLOT:06 POINT:04	
5	%Q0005	lo_gre_bb_o_val_apr	G1 ACEITE REGUL GOB PRESION AB	APERTURA	S	01GRE_BB_O_VAL_APR	2			RACK:0 SLOT:06 POINT:05	
6	%Q0006	lo_gre_bb_f_val_cie	G1 ACEITE REGUL GOB PRESION CERR	CIERRE	S	01GRE_BB_F_VAL_CIE	2			RACK:0 SLOT:06 POINT:06	
7	%Q0007	lo_gvg_bc_o_iv_apr	G1 ACEITE REGUL V-ESF PRESION AB	APERTURA	S	01GVG_BC_O_IV_APR	2			RACK:0 SLOT:06 POINT:07	
8	%Q0008	lo_gvg_bc_f_iv_cle	G1 ACEITE REGUL I/V PRESION CERR	CIERRE	S	01GVG_BC_F_IV_CIE	2			RACK:0 SLOT:06 POINT:08	
9	%Q0009	lo_gvg_bd_vbyp_apr	G1 ACEITE REGUL BYPAS I/V	APERTURA	S	01GVG_BD_VBYP_APR	2			RACK:0 SLOT:06 POINT:09	
10	%Q0010						2			RACK:0 SLOT:06 POINT:10	
11	%Q0011	lo_gvg_bf_sello_libre	G1 ACEITE REGUL SELLO INF I/V	APERTURA	S	01GVG_BF SELLO_LIBRE	2			RACK:0 SLOT:06 POINT:11	
12	%Q0012	lo_gre_bh_cchorro_apr	G1 ACEITE REGUL CONTRA-CHORRO	APERTURA	S	01GRE_BH_CCHORRO_APR	2			RACK:0 SLOT:06 POINT:12	
13	%Q0013	lo_gre_bi_o_defl_cie	G1 ACEITE REGUL DEFLECTOR CERR	CIERRE	S	01GRE_BI_O_DEFL_CIE	2			RACK:0 SLOT:06 POINT:13	
14	%Q0014	lo_gre_bi_f_defl_apr	G1 ACEITE REGUL DEFLECTOR AB	APERTURA	S	01GRE_BI_F_DEFL_APR	2			RACK:0 SLOT:06 POINT:14	
15	%Q0015						1			RACK:0 SLOT:06 POINT:15	
16	%Q0016	lo_gre_bj_air_inyectar	G1 GOBERNADOR VALV AIRE	APERTURA	S	01GRE_BJ_AIR_INYECTAR	2			RACK:0 SLOT:06 POINT:16	
17	%Q0017						1			RACK:0 SLOT:06 POINT:17	
18	%Q0018	lo_gvg_bk_air_inyectar	G1 VALV I/V INYECTAR AIRE	APERTURA	S	01GVGBK_AIR_INYECTAR	2			RACK:0 SLOT:06 POINT:18	
19	%Q0019						1			RACK:0 SLOT:06 POINT:19	
20	%Q0020	lo_gre_r0_gob_inic	G1 GOB ORDEN DE INICIO	ARANQUE	S	01GRE_R0_GOB_INIC	2			RACK:0 SLOT:06 POINT:20	
21	%Q0021						2			RACK:0 SLOT:06 POINT:21	
22	%Q0022	lo_gal30_33_ap_frenos	G1 APLICACIÓN FRENOS GENERADOR	SI	S	01GAL30_33_AP_FRENOS	2			RACK:0 SLOT:06 POINT:22	
23	%Q0023	lo_gal30_33_lib_frenos	G1 LIBERAR FRENOS GENERADOR	SI	S	01GAL3033_LIB_FRENOS	2			RACK:0 SLOT:06 POINT:23	
24	%Q0024						1			RACK:0 SLOT:06 POINT:24	
25	%Q0025						1			RACK:0 SLOT:06 POINT:25	
26	%Q0026						1			RACK:0 SLOT:06 POINT:26	
27	%Q0027						1			RACK:0 SLOT:06 POINT:27	
28	%Q0028						1			RACK:0 SLOT:06 POINT:28	
29	%Q0029						1			RACK:0 SLOT:06 POINT:29	
30	%Q0030	lo_gla005jc_arrq_iny	G1 COJ EMPUJE-GUIA BOMBA INYEC	ARANQUE	S	01GTA005JC_ARRO_INY	2			RACK:0 SLOT:06 POINT:30	
31	%Q0031						1			RACK:0 SLOT:06 POINT:31	
32	%Q0032	lo_gla001jc_arrq	G1 AGUA REFRIG BOM 01GTA001PO	ARANQUE	S	01GTA001JC_ARRO	2			RACK:0 SLOT:06 POINT:32	
33	%Q0033	lo_gla002jc_arrq	G1 AGUA REFRIG BOM 01GTA002PO	ARANQUE	S	01GTA002JC_ARRO	2			RACK:0 SLOT:07 POINT:01	
34	%Q0034	lo_gla004jc_arrq	G1 ACEITE REGUL BOMBA 01GRE_AF	ARANQUE	S	01GTA004JC_ARRO	1			RACK:0 SLOT:07 POINT:02	
35	%Q0035	lo_gla006jc_arrq	G1 GEN ENC/APAGADO CALENTADOR	ARANQUE	S	01GTA006JC_ARRO	2			RACK:0 SLOT:07 POINT:03	
36	%Q0036	lo_gla007jc_arrq	G1 GEN ENC/APAGADO EXTRACTOR	ARANQUE	S	01GTA007JC_ARRO	2			RACK:0 SLOT:07 POINT:04	
37	%Q0037	lo_gla009jc_arrq	G1 TURBINA ENC/APAGADO EXTRACTOR	ARANQUE	S	01GTA009JC_ARRO	2			RACK:0 SLOT:07 POINT:05	
38	%Q0038	lo_gexa02a1_exc_arrq	G1 EXC ORDEN DE APLICAR EXCITA	ARANQUE	S	01GEXA02A1_EXC_ARRO	5			RACK:0 SLOT:07 POINT:06	
39	%Q0039	lo_gexa02a2_exc_paro	G1 EXC ORDEN DE RETIRAR EXCITA	PARO	S	01GEXA02A2_EXC_PARO	5			RACK:0 SLOT:07 POINT:07	
40	%Q0040	lo_gexa02a5_exc_auto	G1 EXCITACIÓN EN MODO	AUTO	S	01GEXA02A5_EXC_AUTO	5			RACK:0 SLOT:07 POINT:08	
41	%Q0041	lo_gexa02a6_exc_manu	G1 EXCITACIÓN EN MODO	MANU	S	01GEXA02A6_EXC_MANU	5			RACK:0 SLOT:07 POINT:09	
42	%Q0042						1			RACK:0 SLOT:07 POINT:10	
43	%Q0043	lo_gla001tr_ventr_arrq	G1 M.TR ARRO VENTILADORES REFRIC	ARANQUE	S	01GTA001TRVENTR_ARRO	2			RACK:0 SLOT:07 POINT:11	
44	%Q0044						1			RACK:0 SLOT:07 POINT:12	
45	%Q0045	lo_61lr001js_x1_cie	G1 JS CERRAR SECCIONADOR 138KV	CIERRE	S	61LR001JS_X1_CIE	2			RACK:0 SLOT:07 POINT:13	
46	%Q0046	lo_61lr001js_x1_apr	G1 JS ABRIR SECCIONADOR 138KV	APERTURA	S	61LR001JS_X1_APR	2			RACK:0 SLOT:07 POINT:14	
47	%Q0047	lo_61lr001jd_x2_cie	G1 INTERRUPTOR 138KV	CIERRE	S	61LR001JD_X2_CIE	2			RACK:0 SLOT:07 POINT:15	
48	%Q0048	lo_61lr001jd_x2_apr	G1 JD ABRIR INTERRUPTOR 138KV	APERTURA	S	61LR001JD_X2_APR	2			RACK:0 SLOT:07 POINT:16	
49	%Q0049						1			RACK:0 SLOT:07 POINT:17	
50	%Q0050	lo_gta005pr15_86e1_pa	G1 PROT DISPARO R-BLOQUEO 86E1	DISPARO	S	01GTA005PR15_86E1_PA	11			RACK:0 SLOT:07 POINT:18	
51	%Q0051	lo_gta005pr16_86e2_pa	G1 PROT DISPARO R-BLOQUEO 86E2	DISPARO	S	01GTA005PR16_86E2_PA	11			RACK:0 SLOT:07 POINT:19	
52	%Q0052	lo_gta005pr17_86r_pa	G1 PROT DISPARO PAR-RAPIDA 86R	DISPARO	S	01GTA005PR17_86R_PA	11			RACK:0 SLOT:07 POINT:20	
53	%Q0053	lo_gta005pr18_94p2_pa	G1 PROT DISPARO PAR-PARCIAL 94P2	DISPARO	S	01GTA005PR18_94P2_PA	11			RACK:0 SLOT:07 POINT:21	
54	%Q0054	lo_gta005pr19_mast_re	G1 REPOSICION RELES-BLOQUEO	RESTAB	S	01GTA005PR19_MAST_RE	2			RACK:0 SLOT:07 POINT:22	
55	%Q0055	lo_gta005pr20_syn_au	G1 PROT AUTORIZACION SINCRONIZAC	AUTORIZ	S	01GTA005PR20_SYN_AU	2			RACK:0 SLOT:07 POINT:23	
56	%Q0056	lo_gta005pr21_syn_auto	G1 PROT SINCRONIZACION EN MODO	AUTO	S	01GTA005PR21_SYN_AUTO	2			RACK:0 SLOT:07 POINT:24	



<div></div> <div>EMPRESA DE GENERACIÓN ELÉCTRICA Y ACTIVIDADES A</div> <div>egemsa</div>			LISTA DE SEÑALES						<div></div> <div>TESLA CORP</div> <div>INGENIERIA</div> <div><small>Ingeniería, Consultoría y Servicios Tecnológicos</small></div>		
			ANEXO 2								
			EVALUACIÓN Y TDR DE MODERNIZACION DEL SISTEMA DE CONTROL								
			PROYECTO:								
CLIENTE:			EGEMSA		CODIGO:		TES_EGM_2020_07_LS				
I. DATOS GENERALES											
SISTEMA:		SISTEMA DE CONTROL FASE I				SUB SISTEMA:		SISTEMA DE CONTROL DE UNIDAD			
HARDWARE:		PLC MAIN GRUPO 1				FUENTE:		APLICACIÓN PLC			
TIPO:		COMUNICACIÓN S8000 - E INPUTS / LOGICAL									
ITEM	ADDRESS	MNEMONIC	LABEL	STATE 1	TO CTRLG	VAR REF	STD	TO MMI	TO F8000	LOCATION PLC	
1	%I1057	li_20plc_run	THE CONTROLLER IS RUNNING				1			KKL20M	
2	%I1058	li_20kmh005sn_al	NIVEL DEL CANAL DE DESCARGA	ALTO			21			KKL20M	
3	%I1059	li_20lga001jd_ab	INT.LLEGADA G1 A TRFO. 13.8/4	ABIERTO			2			KKL20M	
4	%I1060	li_20lga001jd_cerr	INT.LLEGADA G1 A TRFO. 13.8/4	CERRADO			2			KKL20M	
5	%I1061	li_20lga002jd_ab	INT.LLEGADA G2 A TRFO. 13.8/0.4	ABIERTO			2			KKL20M	
6	%I1062	li_20lga002_cerr	INT.LLEGADA G2 A TRFO. 13.8/0.4	CERRADO			2			KKL20M	
7	%I1063	li_20lga003jd_ab	INT.LLEGADA G3 A TRFO. 13.8/0.4	ABIERTO			2			KKL20M	
8	%I1064	li_20lga003jd_cerr	INT.LLEGADA G3 A TRFO. 13.8/0.4	CERRADO			2			KKL20M	
9	%I1065	li_20sra001fi_fa	FILTROS DE AUTOLIMPIEZA 1	FALLA			21			KKL20M	
10	%I1066	li_20sra101fi_fa	FILTROS DE AUTOLIMPIEZA 2	FALLA			21			KKL20M	
11	%I1067	li_01gta_paro_rapido	PARADA DE GRUPO 1 POR FALLA SRA	FALLA			11			KKL20M	
12	%I1068	li_02gta_paro_rapido	PARADA DE GRUPO 2 POR FALLA SRA	FALLA			11			KKL20M	
13	%I1069	li_03gta_paro_rapido	PARADA DE GRUPO 3 POR FALLA SRA	FALLA			11			KKL20M	
14	%I1070	li_20lkb001jd_apr	INT. LLEGADA DE TRFO 10.5/4KV	APERTURA			2			KKL20M	
15	%I1071	li_20lkb001jd_cie	INT. LLEGADA DE TRFO 10.5/4KV	CIERRE			2			KKL20M	
16	%I1072	li_20lkb002jd_apr	INT. LLEGADA DE GEN. DIESEL	APERTURA			2			KKL20M	
17	%I1073	li_20lkb002jd_cie	INT. LLEGADA DE GEN. DIESEL	CIERRE			2			KKL20M	
18	%I1074	li_20lkb003jd_apr	INT. LLEGADA DE TRF. 10.5/4KV	APERTURA			2			KKL20M	
19	%I1075	li_20lkb003jd_cie	INT. LLEGADA DE TRF. 10.5/4KV	CIERRE			2			KKL20M	
20	%I1076	li_20lka001ga_cont	GENERADOR DIESEL	ARRANQUE			2			KKL20M	
21	%I1077	li_20sra_en_servicio	SISTEMA REF. AGUA CRUDA	EN-SERV		20SRA_EN_SERVICIO	2	S		KKL20M	
22	%I1078	li_20sra_niv_pozos_norm	NIVEL POZOS AGUA CRUDA REFRIG.	NORMAL		20SRA_NIV_POZOS_NORM	2	S		KKL20M	
23	%I1079	li_20srb001ba_muy_bajo	TANQUE COMPENSACION AGUA TRATADA	MUY-BAJO		20SRB001BA_MUY_BAJO	21	S		KKL20M	
24	%I1080	li_20spr002cr_serv	SISTEMA DE PRESION DE AIRE 20SPR	EN-SERV			2			KKL20M	
25	%I1081	li_20spr002cr_al_fa	COMPRESOR AIRE AL	FALLA			21			KKL20M	
26	%I1082	li_20spr002cr_am_fa	COMPRESOR AIRE AM	FALLA			21			KKL20M	
27	%I1083	li_20lka001tb_disp1	DESCONEXION DE CARGAS TAB. 20LKA	DISPARO			21			KKL20M	
28	%I1084	li_20lka_b1_paso4	PERMISO RECONEXION 20LKA PASO4	AUTORIZ			2			KKL20M	
29	%I1085						1			KKL20M	
30	%I1086						1			KKL20M	
31	%I1087						1			KKL20M	
32	%I1088						1			KKL20M	
33	%I1105	li_21plc_run	THE CONTROLLER IS RUNNING				1			HTC21M	
34	%I1106	li_00kmh001mc_fa	CAUDALIMETRO EN DUCTO FORZADO	FALLA			21			HTC21M	
35	%I1107	li_00kmh001mc_pulso	CAUDALIMETRO EN DUCTO FORZADO	DETECT			2			HTC21M	
36	%I1108	li_00kmh001mc_sens1	CAUDALIMETRO EN DUCTO FORZADO	DETECT			11			HTC21M	
37	%I1109	li_00kmh001mc_sens2	CAUDALIMETRO EN DUCTO FORZADO	DETECT			2			HTC21M	
38	%I1110	li_00kmh005sn_mb	NIVEL EN CAMARA CARGA	MUY-BAJO		00KMH005SN_MB	11	S		HTC21M	
39	%I1111	li_21htc001fc_cvo	VALVULA MARIPOSA	ABIERTO		21HTC001FC_CVO	2	S		HTC21M	
40	%I1112	li_21htc001fc_fcb	VALVULA MARIPOSA	CERRADO			2			HTC21M	
41	%I1113	li_00kmh003sn_normal	NIVEL EN CAMARA CARGA	NORMAL		00KMH003SN_NORMAL	2	S		HTC21M	
42	%I1114	li_00kmh003sn_ba	NIVEL EN CAMARA CARGA	BAJO			21			HTC21M	

43	%I1115	li_00kmh003sn_val	BIT DE VALIDEZ DE MEDIDA				1			HTC21M
44	%I1116	li_00kmh103sn_mb	NIVEL EN CAMARA CARGA	MUY-BAJO			11			HTC21M
45	%I1117						1			HTC21M
46	%I1118						1			HTC21M
47	%I1119						1			HTC21M
48	%I1120						1			HTC21M
49	%I1137	li_31plc_run	THE CONTROLLER IS RUNNING	FUNC			12			HPE31M
50	%I1138	li_31hpe_compt_ab	COMP DE TOMA ABIERTAS	SI			2			HPE31M
51	%I1139						1			HPE31M
52	%I1140						1			HPE31M
53	%I1141						1			HPE31M
54	%I1142						1			HPE31M
55	%I1143						1			HPE31M
56	%I1144						1			HPE31M
57	%I1145						1			HPE31M
58	%I1146						1			HPE31M
59	%I1147						1			HPE31M
60	%I1148						1			HPE31M
61	%I1149						1			HPE31M
62	%I1150						1			HPE31M
63	%I1151						1			HPE31M
64	%I1152						1			HPE31M
65	%I1169	li_60plc_run	THE CONTROLLER IS RUNNING		60PLC_RUN		1	S		LRX60M
66	%I1170	li_20lkb001jd_ab	INTERRUPTOR 20LKB001JD	ABIERTO			2			LRX60M
67	%I1171	li_20lkb001jd_cerr	INTERRUPTOR 20LKB001JD	CERRADO			2			LRX60M
68	%I1172	li_20lkb001jd_ench	INTERRUPT 20LKB001JD ENCHUFADO	PRESENC			22			LRX60M
69	%I1173	li_20lkb001jd_fa	INTERRUPT 20LKB001JD	FALLA			11			LRX60M
70	%I1174	li_20lkb001jd_prep	INTERR 20LKB001JD LISTO AL CIERR	PRESENC			2			LRX60M
71	%I1175	li_20lkb002jd_ab	INTERRUPT 20LKB002JD	ABIERTO			2			LRX60M
72	%I1176	li_20lkb002jd_cerr	INTERRUPT 20LKB002JD	CERRADO			2			LRX60M
73	%I1177	li_20lkb002jd_ench	INTERRUPT 20LKB002JD ENCHUFADO	PRESENC			22			LRX60M
74	%I1178	li_20lkb002jd_fa	INTERRUPT 20LKB002JD	FALLA			11			LRX60M
75	%I1179	li_20lkb002jd_prep	INTERR 20LKB002JD LISTO AL CIERR	PRESENC			2			LRX60M
76	%I1180	li_20lkb003jd_ab	INTERRUPT 20LKB003JD	ABIERTO			2			LRX60M
77	%I1181	li_20lkb003jd_cerr	INTERRUPT 20LKB003JD	CERRADO			2			LRX60M
78	%I1182	li_20lkb003jd_ench	INTERRUPT 20LKB003JD ENCHUFADO	PRESENC			22			LRX60M
79	%I1183	li_20lkb003jd_fa	INTERRUPT 20LKB003JD	FALLA			11			LRX60M
80	%I1184	li_20lkb003jd_prep	INTERR 20LKB003JD LISTO AL CIERR	PRESENC			2			LRX60M

III. OBSERVACIONES & COMENTARIOS

IV. APROBACIONES

		LISTA DE SEÑALES													
		ANEXO 2													
		PROYECTO:					EVALUACIÓN Y TDR DE MODERNIZACION DEL SISTEMA DE CONTROL								
		CLIENTE:					EGEMSA								
		CODIGO:					TES_EGM_2020_07_LS								
I. DATOS GENERALES															
SISTEMA:		SISTEMA DE CONTROL FASE I								SUB SISTEMA:		SISTEMA DE CONTROL DE UNIDAD			
HARDWARE:		PLC MAIN GRUPO 1								FUENTE:		APLICACIÓN PLC			
TIPO:		COMUNICACIÓN S8000 - E INPUTS / ANALOGICOS													
II. TABLA DE DATOS															
TIPO ANALOG															
ITEM	ADDRESS	MNEMONIC	LABEL	UNIT	FROM / TO CTRL LOG	VAR REF	V MINI	V MAX	PLC MINI	PLC MAX	ACQ. RATE(S)	TO MMI	TO F8000	LOCATION	
1	%R9205													LRX60M	
2	%R9206													LRX60M	
3	%R9207													LRX60M	
4	%R9208													LRX60M	
5	%R9209													LRX60M	
6	%R9210													LRX60M	
7	%R9211	di_63lr_kv_e_rs	VOLTAJE FASE-FASE RS BARRA 138KV	KV		63LRL_KV_E_RS	0	200.00	0	20000	5	M		LRX60M	
8	%R9212	di_63lr_e_frec	FRECUENCIA EN BARRA 138KV	HZ			0	100	0	1000	5			LRX60M	
9	%R9213	di_63lr_kv_t_rs	VOLTAJE FASE-FASE RS BARRA 138KV	KV		63LRL_KV_T_RS	0	200.00	0	2000	5	M		LRX60M	
10	%R9214	di_63lr_frec_t	FRECUENCIA HZ L0621 BARRA 138KV	HZ			0	100.00	0	1000	5			LRX60M	
11	%R9215	di_20lkp_kv_st	VOLTAJE FASE-FASE ST GRUP DIS	KV			0	320.00	0	32000	5			LRX60M	
12	%R9216	di_20lkp_kv_rt	VOLTAJE FASE-FASE RT GRUP DIS	KV			0	320.00	0	32000	5			LRX60M	
13	%R9217	di_20lkp_kv_rs	VOLTAJE FASE-FASE RS GRUP DIS	KV			0	320.00	0	32000	5			LRX60M	
14	%R9218	di_20lkp_amp_t	CORRIENTE LINEA T GRUP DIS	A			0	320.00	0	32000	5			LRX60M	
15	%R9219	di_20lkp_amp_s	CORRIENTE LINEA S GRUP DIS	A			0	320.00	0	32000	5			LRX60M	
16	%R9220	di_20lkp_amp_r	CORRIENTE LINEA R GRUP DIS	A			0	320.00	0	32000	5			LRX60M	
17	%R9233													HTC21M	
18	%R9234													HTC21M	
19	%R9235													HTC21M	
20	%R9236													HTC21M	
21	%R9237													HTC21M	
22	%R9238													HTC21M	
23	%R9239													HTC21M	
24	%R9240	di_00kmh003sn_cam_carga	NIVEL AGUA EN CAMARA DE CARGA	M			0	4	6400	32000	10			HTC21M	
III. OBSERVACIONES & COMENTARIOS															
IV. APROBACIONES															

		LISTA DE SEÑALES								
		ANEXO 2								
		PROYECTO: EVALUACIÓN Y TDR DE MODERNIZACION DEL SISTEMA DE CONTROL								
		CLIENTE: EGEMSA			CODIGO: TES_EGM_2020_07_LS					
I. DATOS GENERALES										
SISTEMA:		SISTEMA DE CONTROL FASE I					SUB SISTEMA:		SISTEMA DE CONTROL DE UNIDAD	
HARDWARE:		PLC MAIN GRUPO 1					FUENTE:		APLICACIÓN PLC	
TIPO:		COMUNICACIÓN F8000 - INPUTS / LOGICAL								
ITEM	ADDRESS	MNEMONIC	LABEL	STATE 1	TO CTRLLOG	TO 8000-E	VAR REF	STD	TO MMI	LOCATION PLC
1	%I0033	li_gta_pol_ihr_slot03	G1 POLARIDAD IHR SLOT 3	PRESENC			01GTA_POL_IHR_SLOT03	22	S	GTA011 Address %I001
2	%I0034	li_gta_syn_ihr	G1 PULSO DE SINCRONIZACION	PRESENC				2		GTA011 Address %I002
3	%I0035	li_gtu_cchor_cerr	G1 CONTRACHORRO DE TURBINA	CERRADO			01GTU_CCHOR_CERR	2	S	GTA011 Address %I003
4	%I0036	li_gre_ae_ctor_cerr	G1 ARRANCADOR BOMBA 01GRE-AE	CERRADO			01GRE_AE_CTOR_CERR	2	S	GTA011 Address %I004
5	%I0037	li_gre_ae_ctor_fa	G1 ARRANCADOR BOMBA 01GRE-AE	FALLA			01GRE_AE_CTOR_FA	21	S	GTA011 Address %I005
6	%I0038	li_gre_ae_ctor_rem	G1 ARRANCADOR BOMBA 01GRE-AE	REMOTO			01GRE_AE_CTOR_REM	2	S	GTA011 Address %I006
7	%I0039	li_gre_af_ctor_cerr	G1 ARRANCADOR BOMBA 01GRE-AF	CERRADO			01GRE_AF_CTOR_CERR	2	S	GTA011 Address %I007
8	%I0040	li_gre_af_ctor_fa	G1 ARRANCADOR BOMBA 01GRE-AF	FALLA			01GRE_AF_CTOR_FA	21	S	GTA011 Address %I008
9	%I0041	li_gre_af_ctor_rem	G1 ARRANCADOR BOMBA 01GRE-AF	REMOTO			01GRE_AF_CTOR_REM	2	S	GTA011 Address %I009
10	%I0042	li_gre_cg_pres_gob	G1 PRESION CIRCUITO REGUL	NORMAL			01GRE_CG_PRES_GOB	2		GTA011 Address %I010
11	%I0043	li_gre_lb_pres_gob	G1 PRESION CIRCUITO REGUL	ANORMAL			01GRE_LB_PRES_GOB	11	S	GTA011 Address %I011
12	%I0044	li_gre_li_temp_ac_ma	G1 TANQUE DE COLEC TEMP ACEITE	MUY-ALTO			01GRE_LI_TEMP_AC_MA	11	S	GTA011 Address %I012
13	%I0045	li_gre_lh_niv_ac_mb	G1 TANQUE DE COLEC NIVEL ACEITE	MUY-BAJO			01GRE_LH_NIV_AC_MB	11	S	GTA011 Address %I013
14	%I0046	li_gta_p343_2est_rl14	G1 P343-1Y2 2DO ESTADO RL14	ALARMA			01GTA_P343_2EST_RL14	21	S	GTA011 Address %I014
15	%I0047	li_gta_m5_temp_rl1	G1 MODULOS ADQUISICION DE TEMP	ALARMA			01GTA_M5_TEMP_RL1	21	S	GTA011 Address %I015
16	%I0048	li_gta001tr_fa_motvent	G1 TERMOMG. MOTOVENTILADS	FALLA			01GTA001TRFA_MOTVENT	11	S	GTA011 Address %I016
17	%I0049	li_gre_lf_niv_ac_ba2	G1 ACUMULADOR GOB: NIVEL ACEITE	BAJO			01GRE_LF_NIV_AC_BA2	21	S	GTA011 Address %I017
18	%I0050	li_gre_cd_niv_ac_recup	G1 ACUMULADOR GOB: NIVEL ACEITE	ESTABLO			01GRE_CD_NIV_AC_RECUP	2	S	GTA011 Address %I018
19	%I0051	li_gre_cf_niv_ac_norm	G1 ACUMULADOR GOB: NIVEL ACEITE	NORMAL			01GRE_CF_NIV_AC_NORM	2	S	GTA011 Address %I019
20	%I0052	li_gre_cr_niv_ac_alto	G1 ACUMULADOR GOB: NIVEL ACEITE	ALTO			01GRE_CR_NIV_AC_ALTO	21	S	GTA011 Address %I020
21	%I0053	li_gre_le_niv_ac_ma	G1 ACUMULADOR GOB: NIVEL ACEITE	MUY-ALTO			01GRE_LE_NIV_AC_MA	11	S	GTA011 Address %I021
22	%I0054	li_gre_ce_niv_ac_ba	G1 ACUMULADOR GOB: NIVEL ACEITE	BAJO			01GRE_CE_NIV_AC_BA	11	S	GTA011 Address %I022
23	%I0055	li_gre_lg_niv_ac_mb	G1 ACUMULADOR GOB: NIVEL ACEITE	MUY-BAJO			01GRE_LG_NIV_AC_MB	11	S	GTA011 Address %I023
24	%I0056	li_gre_cz4_val_ab	G1 ACUMULADOR GOB: VALV AISLAM	ABIERTO			01GRE_CZ4_VAL_AB	2	S	GTA011 Address %I024
25	%I0057	li_gre_cz5_val_cerr	G1 ACUMULADOR GOB: VALV AISLAM	CERRADO			01GRE_CZ5_VAL_CERR	2	S	GTA011 Address %I025
26	%I0058	li_gex_alarm_rot_64r	G1 EXC MASA ROTOR 64R	ALARMA			01GEX_ALARM_ROT_64R	21	S	GTA011 Address %I026
27	%I0059	li_gvg_xx_niv_ac_ba	G1 ACUMULADOR VAL ESF: NIV ACEITE	BAJO			01GVG_XX_NIV_AC_BA	11	S	GTA011 Address %I027
28	%I0060	li_gvg_da_niv_ac_recup	G1 ACUMULADOR VAL ESF: NIV ACEITE	ESTABLO			01GVGDA_NIV_AC_RECUP	2	S	GTA011 Address %I028
29	%I0061	li_gvg_db_niv_ac_alto	G1 ACUMULADOR VAL ESF: NIV ACEITE	ALTO			01GVG_DB_NIV_AC_ALTO	21	S	GTA011 Address %I029
30	%I0062	li_gvg_lp_niv_ac_ma	G1 ACUMULADOR VAL ESF: NIV ACEITE	MUY-ALTO			01GVG_LP_NIV_AC_MA	11	S	GTA011 Address %I030
31	%I0063							1		GTA011 Address %I031
32	%I0064	li_gvg_lr_niv_ac_mb	G1 ACUMULADOR VAL ESF: NIV ACEITE	MUY-BAJO			01GVG_LR_NIV_AC_MB	11	S	GTA011 Address %I032
33	%I0065	li_gta_pol_ihr_slot04	G1 POLARIDAD IHR SLOT 4	PRESENC			01GTA_POL_IHR_SLOT04	22	S	GTA011 Address %I033
34	%I0066	li_gvg_cz1_val_ab	G1 ACUMULADOR VAL ESF: VALV AISL	ABIERTO			01GVG_CZ1_VAL_AB	2	S	GTA011 Address %I034
35	%I0067	li_gvg_cz2_val_cerr	G1 ACUMULADOR VAL ESF: VALV AISL	CERRADO			01GVG_CZ2_VAL_CERR	2	S	GTA011 Address %I035
36	%I0068	li_gvg_dd_pres_ai_ma	G1 ACUMULADOR VAL ESF: PRESION	MUY-ALTO			01GVG_DD_PRES_AI_MA	11	S	GTA011 Address %I036
37	%I0069	li_gex_disp_rot_64r	G1 EXCITACIÓN MASA ROTOR 64R	DISPARO			01GEX_DISP_ROT_64R	11	S	GTA011 Address %I037
38	%I0070	li_gex_tr_exc_rele	G1 TRAFO EXICT. RELE PROT DEFECT	ALARMA			01GEX_TR_EXC_RELE	21	S	GTA011 Address %I038
39	%I0071	li_gex_prob_exc	G1 DISPARO DESDE EXCITACIÓN	DISPARO			01GEX_PROB_EXC	11	S	GTA011 Address %I039
40	%I0072	li_gvg_cl_se_sup_lib	G1 VALV ESF: ANILLO ARRIBA AB	INDICA			01GVG_CL_SE_SUP_LIB	2	S	GTA011 Address %I040
41	%I0073	li_gvg_cm_se_inf_lib	G1 VALV ESF: ANILLO ABAJO AB	INDICA			01GVG_CM_SE_INF_LIB	2	S	GTA011 Address %I041
42	%I0074	li_gvg_ci_iv_cerr	G1 VALVULA ESF: POSICION	CERRADO			01GVG_CI_IV_CERR	2	S	GTA011 Address %I042
43	%I0075	li_gvg_cj_iv_abriendo	G1 VALVULA ESF: POSICION 1/3	EN-CURSO			01GVG_CJ_IV_ABRIENDO	2	S	GTA011 Address %I043
44	%I0076	li_gvg_ck_iv_ab	G1 VALVULA ESF: ABIERTO 1	ABIERTO			01GVG_CK_IV_AB	2	S	GTA011 Address %I044

45	%I0077	li_gvg_mc_iv_cerr_fa	G1 VALVULA ESF: ABIERTO 2	ABIERTO			01GVG_MC_IV_CERR_FA	2		GTA01I Address %I045
46	%I0078	li_gvg_cn_iv_igual_pres	G1 PRESION ABAJO VALV ESFERICA	ESTABLO			01GVGCNIV_IGUAL_PRES	2		GTA01I Address %I046
47	%I0079	li_gta_fa_tg_2uch	G1 MODULO TEMPERATURAS	FALLA			01GTA_FA_TG_2UCH	11	S	GTA01I Address %I047
48	%I0080	li_gtu_lm1_temp_alta	G1 COJINETE TURBINA TEMP PATIN	ALTO			01GTU_LM1_TEMP_ALTA	21	S	GTA01I Address %I048
49	%I0081	li_gtu_lm2_temp_ma	G1 COJINETE TURBINA TEMP PATIN	MUY-ALTO			01GTU_LM2_TEMP_MA	11	S	GTA01I Address %I049
50	%I0082	li_gtu_ln_niv_ac_ma	G1 COJINETE TURBINA NIVEL ACEITE	MUY-ALTO			01GTU_LN_NIV_AC_MA	21	S	GTA01I Address %I050
51	%I0083	li_gtu_lo_niv_ac_mb	G1 COJINETE TURBINA NIVEL ACEITE	MUY-BAJO			01GTU_LO_NIV_AC_MB	21	S	GTA01I Address %I051
52	%I0084	li_gtu_la_sobv	G1 TURBINA SOBREVELOCIDAD	DETECT			01GTU_LA_SOVB	11	S	GTA01I Address %I052
53	%I0085	li_gtu_md_ag_refr_mb	G1 COJINETE TURBINA FLUJO AGUA	BAJO			01GTU_MD_AG_REFR_MB	21	S	GTA01I Address %I053
54	%I0086	li_gta_u_exc_101jd	G1 DEF CIRC U-AC EXC 101JD	ALARMA			01GTA_U_EXC_101JD	21	S	GTA01I Address %I054
55	%I0087	li_gre_r29on_falla	G1 DEFECTO MAYOR EN TSLG	N-DETECT			01GRE_R29ON_FALLA	12	S	GTA01I Address %I055
56	%I0088	li_gre_rv202on_velo_0	G1 VELOCIDAD UNIDAD = 0%	DETECT			01GRE_RV202ON_VELO_0	5	S	GTA01I Address %I056
57	%I0089	li_gre_rv15on_velo_15	G1 VELOCIDAD UNIDAD <=15%	DETECT			01GRE_RV15ON_VELO_15	5		GTA01I Address %I057
58	%I0090	li_gre_rv16on_velo_25	G1 VELOCIDAD UNIDAD <=25%	DETECT			01GRE_RV16ON_VELO_25	5		GTA01I Address %I058
59	%I0091	li_gre_rv18on_velo_30	G1 VELOCIDAD UNIDAD <=10%	DETECT			01GRE_RV18ON_VELO_30	5		GTA01I Address %I059
60	%I0092	li_gre_rv17on_velo_40	G1 VELOCIDAD UNIDAD <=60%	DETECT			01GRE_RV17ON_VELO_40	5		GTA01I Address %I060
61	%I0093	li_gre_rv19on_velo_80	G1 VELOCIDAD UNIDAD >=80%	DETECT			01GRE_RV19ON_VELO_80	5		GTA01I Address %I061
62	%I0094	li_gre_rv2on_velo_90	G1 VELOCIDAD UNIDAD >=90%	DETECT			01GRE_RV2ON_VELO_90	5		GTA01I Address %I062
63	%I0095	li_gre_rv20on_velo_120	G1 VELOCIDAD UNIDAD >=120%	DETECT			01GRERV20ON_VELO_120	11	S	GTA01I Address %I063
64	%I0096	li_gre_r296off_inhib	G1 ADT: DEFECTO MAYOR	FALLA			01GRE_R296OFF_INHIB	11	S	GTA01I Address %I064
65	%I0097	li_gta_pol_ihr_slot05	G1 POLARIDAD IHR SLOT 5	PRESENC			01GTA_POL_IHR_SLOT05	22	S	GTA01I Address %I065
66	%I0098	li_gta_u_med_102jd	G1 DEF CIRC U-AC MED 102JD	FALLA			01GTA_U_MED_102JD	21	S	GTA01I Address %I066
67	%I0099	li_gtu_ca_pos_deflect	G1 TURBINA POSICION DEFLECTORES	CERRADO			01GTU_CA_POS_DEFLECT	2	S	GTA01I Address %I067
68	%I0100	li_gtu_cb1_estado	G1 TURBINA ESTADO AGUJA1	CERRADO			01GTU_CB1_ESTADO	2	S	GTA01I Address %I068
69	%I0101	li_gtu_cb2_estado	G1 TURBINA ESTADO AGUJA2	CERRADO			01GTU_CB2_ESTADO	2	S	GTA01I Address %I069
70	%I0102	li_gtu_cb3_estado	G1 TURBINA ESTADO AGUJA3	CERRADO			01GTU_CB3_ESTDO	2	S	GTA01I Address %I070
71	%I0103	li_gtu_cb4_estado	G1 TURBINA ESTADO AGUJA4	CERRADO			01GTU_CB4_ESTADO	2	S	GTA01I Address %I071
72	%I0104	li_gtu_cb5_estado	G1 TURBINA ESTADO AGUJA5	CERRADO			01GTU_CB5_ESTADO	2	S	GTA01I Address %I072
73	%I0105	li_gta_u_prot1_104jd	G1 DEF CIRC U-AC ENERG 104JD	FALLA			01GTA_U_PROT1_104JD	21	S	GTA01I Address %I073
74	%I0106	li_gal30_33_frenos_lib	G1 GENERADOR FRENOS LIBERADOS	SI			01GAL3033_FRENOS_LIB	5	S	GTA01I Address %I074
75	%I0107	li_gal34_37_frenos_usa	G1 GENERADOR FRENOS DESGASTADOS	ALARMA			01GAL34_37_FRENOS_USA	21	S	GTA01I Address %I075
76	%I0108							1		GTA01I Address %I076
77	%I0109							1		GTA01I Address %I077
78	%I0110	li_gal42sd1_flu_ag_ba	G1 GENERADOR FLUJO DE AGUA	BAJO			01GAL42SD1_FLU_AG_BA	21	S	GTA01I Address %I078
79	%I0111							1		GTA01I Address %I079
80	%I0112	li_gta_u_gob_105jd	G1 DEF CIRC U-AC GOB 105JD	FALLA			01GTA_U_GOB_105JD	21	S	GTA01I Address %I080
81	%I0113	li_gta_u_sinc_107jd	G1 DEF CIRC U-AC SINCR0 107JD	FALLA			01GTA_U_SINC_107JD	21	S	GTA01I Address %I081
82	%I0114	li_gexa05a6_alarma	G1 EXCITACIÓN TRAF0 ESTD	ALARMA			01GEXA05A6_ALARMA	21	S	GTA01I Address %I082
83	%I0115	li_gexa05a7_auto	G1 EXCITACION MODO	AUTO			01GEXA05A7_AUTO	5	S	GTA01I Address %I083
84	%I0116	li_gexa05a5_limit	G1 EXCITACIÓN EN LIMITACION	ALARMA			01GEXA05A5_LIMIT	21	S	GTA01I Address %I084
85	%I0117	li_gexa05a8_inicio_fa	G1 EXCITACIÓN INICIACION FALLA	DETECT			01GEXA05A8_INICIO_FA	21	S	GTA01I Address %I085
86	%I0118	li_gexa05a7_manual	G1 EXCITACIÓN MODO	MANU			01GEXA05A7_MANUAL	5	S	GTA01I Address %I086
87	%I0119	li_gex41f_intpt_cerr	G1 EXCITACIÓN INTERRUPTOR CAMPO	CERRADO			01GEX41F_INTPT_CERR	5	S	GTA01I Address %I087
88	%I0120	li_gex41o_intpt_ab	G1 EXCITACIÓN INTERRUPTOR CAMPO	ABIERTO			01GEX41O_INTPT_AB	5	S	GTA01I Address %I088
89	%I0121	li_gex41d_intpt_fa	G1 EXCITACIÓN INTERRUPTOR CAMPO	ENCHUF			01GEX41D_INTPT_FA	5	S	GTA01I Address %I089
90	%I0122	li_gexk617_10_fa1	G1 EXCITACIÓN DEFECTO NIV1-AVR	ALARMA			01GEXK617_10_FA1	11	S	GTA01I Address %I090
91	%I0123	li_gexk617_1_fa2	G1 EXCITACIÓN DEFECTO NIV2-AVR	NORMAL			01GEXK617_1_FA2	22	S	GTA01I Address %I091
92	%I0124	li_gexk617_11_fa1	G1 EXCITACIÓN DEFECTO NIV1-MCR	ALARMA			01GEXK617_11_FA1	11	S	GTA01I Address %I092
93	%I0125	li_gexk617_2_fa2	G1 EXCITACIÓN DEFECTO NIV2-MCR	NORMAL			01GEXK617_2_FA2	22	S	GTA01I Address %I093
94	%I0126	li_gexq140_f_aux_fa	G1 EXCITACIÓN DEFECT ALIMENTACION	NORMAL			01GEXQ140_F_AUX_FA	12	S	GTA01I Address %I094
95	%I0127	li_gta001tr_buch_alarm	G1 TRAF0 PRINCIPAL BUCCHOLZ	ALARMA			01GTA001TRBUCH_ALARM	21	S	GTA01I Address %I095
96	%I0128	li_gta001tr_buch_disp	G1 TRAF0 PRINCIPAL BUCCHOLZ	DISPARO			01GTA001TR_BUCH_DISP	11	S	GTA01I Address %I096
97	%I0129	li_gta_pol_ihr_slot06	G1 POLARIDAD IHR SLOT 6	PRESENC			01GTA_POL_IHR_SLOT06	22	S	GTA01I Address %I097
98	%I0130	li_gta001tr_sob_p_disp	G1 TRAF0 PRINCIPAL SOBREPRESION	DISPARO			01GTA001TR_SOB_P_DISP	11	S	GTA01I Address %I098

99	%I0131	li_gta001tr_niv_ac_ba	G1 TRAF0 PRINCIPAL NIV ACEITE	BAJO			01GTA001TR_NIV_AC_BA	21	S	GTA01I Address %I099
100	%I0132	li_gta001tr_niv_ac_alt	G1 TRAF0 PRINCIPAL NIV ACEITE	ALTO			01GTA001TR_NIV_AC_ALT	21	S	GTA01I Address %I100
101	%I0133	li_gta001tr_l_bob_alta	G1 TRAF0 PRINCIPAL TEMP BOBINA	ALARMA			01GTA001TR_T_BOB_ALTA	21	S	GTA01I Address %I101
102	%I0134	li_gta001tr_l_bob_ma	G1 TRAF0 PRINCIPAL TEMP BOBINA	PARO			01GTA001TR_T_BOB_MA	11	S	GTA01I Address %I102
103	%I0135	li_gta001tr_aux_remoto	G1 TRAF0 PRINCIPAL CONTROL AUX	AUTO			01GTA001TR_AUX_REMOTO	2	S	GTA01I Address %I103
104	%I0136	li_gta_u_trafo_108jd	G1 DEF CIRC U-AC TRAF0 POT 108JD	FALLA			01GTA_U_TRAFO_108JD	21	S	GTA01I Address %I104
105	%I0137	li_61lrt1js_s3_sel_rem	G1 SELECCIONADOR DE 138KV CAMPO EN	REMOTO			61LRT1JS_S3_SEL_REM	2	S	GTA01I Address %I105
106	%I0138	li_61lrt_001js_o_ab	G1 SELECCIONADOR DE 138KV ESTD	ABIERTO			61LRT_001JS_O_AB	2	S	GTA01I Address %I106
107	%I0139	li_61lrt_001js_c_cerr	G1 SELECCIONADOR DE 138KV ESTD	CERRADO		BS	61LRT_001JS_C_CERR	2	S	GTA01I Address %I107
108	%I0140	li_61lrt1js_q1_f_alim	G1 SELECCIONADOR DE 138KV ESTD	FALLA			61LRT1JS_Q1_F_ALIM	11	S	GTA01I Address %I108
109	%I0141	li_61lrt1jd_s4_sel_rem	G1 INTERRUPTOR 138KV NIV CONTROL	REMOTO			61LRT1JD_S4_SEL_REM	2	S	GTA01I Address %I109
110	%I0142	li_61lrt_001jd_o_ab	G1 INTERRUPTOR 138KV ESTD	ABIERTO		BS	61LRT_001JD_O_AB	2	S	GTA01I Address %I110
111	%I0143	li_61lrt_001jd_c_cerr	G1 INTERRUPTOR 138KV ESTD	CERRADO		BS	61LRT_001JD_C_CERR	2	S	GTA01I Address %I111
112	%I0144	li_61lrt_001jd_sf6_c1	G1 INTERR CIRCUITO 1 FALTA SF6	BLOQUEO			61LRT_001JD_SF6_C1	11	S	GTA01I Address %I112
113	%I0145	li_61lrt_001jd_sf6_c2	G1 INTERR CIRCUITO 2 FALTA SF6	BLOQUEO			61LRT_001JD_SF6_C2	11	S	GTA01I Address %I113
114	%I0146	li_61lrt_001jd_resor_cie	G1 INT RESORTE DE CIERRE TENSADO	SI			61LRT_001JD_RESOR_CIE	22		GTA01I Address %I114
115	%I0147	li_gta101yu_x_voltaje	G1 TAB DISTRIBUCION 380VAC	PRESENC			01GTA101YU_X_VOLTAJE	22	S	GTA01I Address %I115
116	%I0148	li_61lrt1jd_c_a_112jd	G1 ALIM CIRC C-A 61LRT1JS-112JD	FALLA			0161LRT1JD_C_A_112JD	21	S	GTA01I Address %I116
117	%I0149	li_gta001xb_rel86e1	G1 PROT RELE DE BLOQUEO 86E1	DISPARO			01GTA001XB_REL86E1	11	S	GTA01I Address %I117
118	%I0150	li_gta002xb_rel86e2	G1 PROT RELE DE BLOQUEO 86E2	DISPARO			01GTA002XB_REL86E2	11	S	GTA01I Address %I118
119	%I0151	li_gta003xb_rel86r	G1 PROT RELE DE BLOQUEO 86R	DISPARO			01GTA003XB_REL86R	11	S	GTA01I Address %I119
120	%I0152	li_gta001xd_rel86p1	G1 PROT RELE DE BLOQUEO 86P1	DISPARO			01GTA001XD_REL86P1	11	S	GTA01I Address %I120
121	%I0153	li_gta004xb_rel94p2	G1 PROT RELE DE BLOQUEO 94P2	DISPARO			01GTA004XB_REL94P2	11	S	GTA01I Address %I121
122	%I0154	li_gta005pr1_rel78	G1 PRO REL PERD PASO 78 WATCHDOG	NORMAL			01GTA005PR1_REL78	12	S	GTA01I Address %I122
123	%I0155	li_gta005pr2_rel343_1	G1 PROT RELE MULTIFUNCION P343-1	EN-SERV			01GTA005PR2_REL343_1	12	S	GTA01I Address %I123
124	%I0156	li_gta005pr3_rel343_2	G1 PROT RELE MULTIFUNCION P343-2	EN-SERV			01GTA005PR3_REL343_2	12	S	GTA01I Address %I124
125	%I0157	li_gta005pr4_rel141	G1 PROT RELE MULTIFUNCION P141	EN-SERV			01GTA005PR4_REL141	12	S	GTA01I Address %I125
126	%I0158	li_gta005pr5_rel130_1	G1 PROT REL DIFERENC KBCH130-1	EN-SERV			01GTA005PR5_REL130_1	12	S	GTA01I Address %I126
127	%I0159	li_gta005pr6_rel130_2	G1 PROT REL DIFERENC KBCH130-2	EN-SERV			01GTA005PR6_REL130_2	12	S	GTA01I Address %I127
128	%I0160	li_gta005pr7_rel121	G1 PROT REL SOBREC P121 WATCHDOG	FALLA			01GTA005PR7_REL121	11	S	GTA01I Address %I128
129	%I0161	li_gta_pol_lhr_slot07	G1 POLARIDAD IHR SLOT7	PRESENC			01GTA_POL_IHR_SLOT07	22	S	GTA01I Address %I129
130	%I0162	li_gta005pr8_pol_m2	G1 PROT POLARIDADES M2+/-110VCC	FALLA			01GTA005PR8_POL_M2	21	S	GTA01I Address %I130
131	%I0163	li_gta005pr9_pol_c2	G1 PROT POLARIDADES C2+/-110VCC	FALLA			01GTA005PR9_POL_C2	21	S	GTA01I Address %I131
132	%I0164	li_gta005pr10_pol_p2	G1 PROT POLARIDADES P2+/-110VCC	FALLA			01GTA005PR10_POL_P2	21	S	GTA01I Address %I132
133	%I0165	li_gta005pr11_pol_p3	G1 PROT POLARIDADES P3+/-48VCC	FALLA			01GTA005PR11_POL_P3	21	S	GTA01I Address %I133
134	%I0166	li_gtarl4_p343_1_2	G1 PROT RELE P343-1/2 81U/81O	DISPARO			01GTARL4_P343_1_2	11	S	GTA01I Address %I134
135	%I0167	li_gtarl5_p343_1_2	G1 PROT RELE P343-1/2 87G	DISPARO			01GTARL5_P343_1_2	11	S	GTA01I Address %I135
136	%I0168	li_gtarl6_p343_1_2	G1 PROT RELE P343-1/2 64S-51NG	DISPARO			01GTARL6_P343_1_2	11	S	GTA01I Address %I136
137	%I0169	li_gtarl7_p343_1_2	G1 PROT RELE P343-1/2 50-51-50/27	DISPARO			01GTARL7_P343_1_2	11	S	GTA01I Address %I137
138	%I0170	li_gtarl8_p343_1_2	G1 PROT RELE P343-1/2 59-27-24	DISPARO			01GTARL8_P343_1_2	11	S	GTA01I Address %I138
139	%I0171	li_gtarl9_p343_1_2	G1 PROT RELE P343-1/2 21	DISPARO			01GTARL9_P343_1_2	11	S	GTA01I Address %I139
140	%I0172	li_gtarl10_p343_1_2	G1 PROT RELE P343-1/2 40	DISPARO			01GTARL10_P343_1_2	11	S	GTA01I Address %I140
141	%I0173	li_gtarl11_p343_1_2	G1 PROT RELE P343-1/2 46	DISPARO			01GTARL11_P343_1_2	11	S	GTA01I Address %I141
142	%I0174	li_gtarl12_p343_1_2	G1 PROT RELE 7UM516 32R	DISPARO			01GTARL12_P343_1_2	11	S	GTA01I Address %I142
143	%I0175	li_gtarl13_p343_1_2	G1 PROT RELE P343-1/2 32O	DISPARO			01GTARL13_P343_1_2	11	S	GTA01I Address %I143
144	%I0176	li_gtarl3_p343_1_2	G1 PROT RELE P343-1/2 49G	DISPARO			01GTARL3_P343_1_2	11	S	GTA01I Address %I144
145	%I0177	li_gta001yy_78	G1 PROT RELE 7USM516	DISPARO			01GTA001YY_78	11	S	GTA01I Address %I145
146	%I0178	li_gtarl0_rel87t	G1 PROT RELE KBCH130-1/2 87T	DISPARO			01GTARL0_REL87T	11	S	GTA01I Address %I146
147	%I0179	li_gtarl1_rel24	G1 PROT RELE KBCH130-1/2 24	DISPARO			01GTARL1_REL24	11	S	GTA01I Address %I147
148	%I0180	li_gtarl3_rel50_51t_46t	G1 PROT RELE P141 50-51T-59N	DISPARO			01GTARL3REL50_51T_46T	11	S	GTA01I Address %I148
149	%I0181	li_gtarl4_rel51bf	G1 PROT RELE P141 51BF	DISPARO			01GTARL4_REL51BF	11	S	GTA01I Address %I149
150	%I0182	li_gtarl5_rel51nt	G1 PROT RELE P141 51NT	DISPARO			01GTARL5_REL51NT	11	S	GTA01I Address %I150
151	%I0183	li_gtarl6_rel59n	G1 PROT RELE P141 27-46	DISPARO			01GTARL6_REL59N	11	S	GTA01I Address %I151
152	%I0184	li_gtarl7_rel27	G1 PROT RELE P141 27	DISPARO			01GTARL7_REL27	11	S	GTA01I Address %I152

153	%I0185	li_gtarl_sel_sinc_aut	G1 RELE SINCRONIZACION AUTO	FALLA			01GTARL_SEL_SINC_AUT	21	S	GTA01I Address %I153
154	%I0186	li_gtarl_sel_sinc_manu	G1 RELE SINCRONIZACION MANU	FALLA			01GTARL_SEL_SINC_MANU	21	S	GTA01I Address %I154
155	%I0187	li_gta005pr12_sel_sinc	G1 SELECCIÓN SINCRONISMO	AUTO			01GTA005PR12_SEL_SINC	5	S	GTA01I Address %I155
156	%I0188	li_gta005pr13_sel_sinc	G1 SELECCIÓN SINCRONISMO	MANU			01GTA005PR13_SEL_SINC	5	S	GTA01I Address %I156
157	%I0189	li_gta_u_prot1_103jd	G1 DEF CIRC U-AC PROT1 103JD	FALLA			01GTA_U_PROT1_103JD	21	S	GTA01I Address %I157
158	%I0190	li_gta005pr14_pol_c3	G1 PROT POLARIDADES C3+/-48VCC	FALLA			01GTA005PR14_POL_C3	21	S	GTA01I Address %I158
159	%I0191	li_gta005pr15_pol_m4	G1 PROT POLARIDADES M4 220VAC	FALLA			01GTA005PR15_POL_M4	21	S	GTA01I Address %I159
160	%I0192	li_gta_u_prot2_106jd	G1 DEF CIRC U-AC PROT2 106JD	FALLA			01GTA_U_PROT2_106JD	21	S	GTA01I Address %I160
161	%I0193	li_gta_pol_ihr_slot08	G1 POLARIDAD IHR SLOT8	PRESENC			01GTA_POL_IHR_SLOT08	22	S	GTA01I Address %I161
162	%I0194							1		GTA01I Address %I162
163	%I0195	li_gtb40sd2_fl_ag_mb	G1 COJINETE GUIA FLUJO AGUA BAJO	BAJO			01GTB40SD2_FL_AG_MB	21	S	GTA01I Address %I163
164	%I0196	li_gtb17st_temp_me_al	G1 COJINETE GUIA TEMP METAL A	ALARMA			01GTB17ST_TEMP_ME_AL	21	S	GTA01I Address %I164
165	%I0197	li_gtb18st_temp_me_ma	G1 COJINETE GUIA TEMP METAL MA	DISPARO			01GTB18ST_TEMP_ME_MA	11	S	GTA01I Address %I165
166	%I0198	li_gtb19st_temp_me_al	G1 COJINETE EMPUJE TEMP METAL A	ALARMA			01GTB19ST_TEMP_ME_AL	21	S	GTA01I Address %I166
167	%I0199	li_gtb20st_temp_me_ma	G1 COJINETE EMPUJE TEMP METAL MA	DISPARO			01GTB20ST_TEMP_ME_MA	11	S	GTA01I Address %I167
168	%I0200	li_gtb21st_temp_ac_al	G1 COJINETE EMPUJE TEMP ACEITE A	ALARMA			01GTB21ST_TEMP_AC_AL	21	S	GTA01I Address %I168
169	%I0201	li_gtb22st_temp_me_ma	G1 COJINETE EMPUJE TEMP ACEITE M	DISPARO			01GTB22ST_TEMP_ME_MA	11	S	GTA01I Address %I169
170	%I0202	li_gtb26sn_h_niv_ac_al	G1 COJINETE EMPUJE NIV ACEITE A	ALTO			01GTB26SN_H_NIV_AC_AL	21	S	GTA01I Address %I170
171	%I0203	li_gtb26sn_h_niv_ac_ba	G1 COJINETE EMPUJE NIV ACEITE B	BAJO			01GTB26SN_H_NIV_AC_BA	21	S	GTA01I Address %I171
172	%I0204	li_gtb29st_pres_ac_iny	G1 COJ EMPUJE PRESION AC INYEC	NORMAL			01GTB29ST_PRESEN_AC_INY	2		GTA01I Address %I172
173	%I0205	li_61lrt1jd_c_a_local	G1 APR Y CIE EN LOCAL 61LRT001JD	SI			0161LRT1JD_C_A_LOCAL	2		GTA01I Address %I173
174	%I0206	li_61lrt1jd_desconec	G1 MANDO DESCONECT 61LRT001JD	SI			0161LRT1JD_DESCONEC	2		GTA01I Address %I174
175	%I0207	li_gta001jc_ctor_cerr	G1 ARRANCADOR BOMBA GTA001PO	CERRADO			01GTA001JC_CTOR_CERR	2	S	GTA01I Address %I175
176	%I0208	li_gta001jc_falla	G1 ARRANCADOR BOMBA GTA001PO	FALLA			01GTA001JC_FALLA	21	S	GTA01I Address %I176
177	%I0209	li_gta001jc_remoto	G1 ARRANCADOR BOMBA GTA001PO	REMOTO			01GTA001JC_REMOTO	2	S	GTA01I Address %I177
178	%I0210	li_gta002jc_ctor_cerr	G1 ARRANCADOR BOMBA GTA002PO	CERRADO			01GTA002JC_CTOR_CERR	2	S	GTA01I Address %I178
179	%I0211	li_gta002jc_falla	G1 ARRANCADOR BOMBA GTA002PO	FALLA			01GTA002JC_FALLA	21	S	GTA01I Address %I179
180	%I0212	li_gta002jc_remoto	G1 ARRANCADOR BOMBA GTA002PO	REMOTO			01GTA002JC_REMOTO	2	S	GTA01I Address %I180
181	%I0213	li_gta001sp_sin_pres	G1 BOMBA 001PO: PRESION SALIDA	AUSENCIA			01GTA001SP_SIN_PRESEN	2	S	GTA01I Address %I181
182	%I0214	li_gta002sp_sin_pres	G1 BOMBA 002PO: PRESION SALIDA	AUSENCIA			01GTA002SP_SIN_PRESEN	2	S	GTA01I Address %I182
183	%I0215	li_gex_p1_activo	G1 ESTADO PUENTE RECTIFIC N1	SI			01GEX_P1_ACTIVO	5	S	GTA01I Address %I183
184	%I0216	li_gex_p2_activo	G1 ESTADO PUENTE RECTIFIC N2	SI			01GEX_P2_ACTIVO	5	S	GTA01I Address %I184
185	%I0217	li_gta001js_13kv_ab	G1 SECCIONADOR 13.8KV GTA001JS	ABIERTO	BS		01GTA001JS_13KV_AB	2	S	GTA01I Address %I185
186	%I0218	li_gta001js_13kv_cerr	G1 SECCIONADOR 13.8KV GTA001JS	CERRADO	BS		01GTA001JS_13KV_CERR	2	S	GTA01I Address %I186
187	%I0219	li_gta001js_13kv_fa	G1 ALIMENTACION 13.8KV GTA001JS	FALLA			01GTA001JS_13KV_FA	21	S	GTA01I Address %I187
188	%I0220	li_gta001js_13kv_rem	G1 SECCIONADOR 13.8KV GTA001JS	REMOTO			01GTA001JS_13KV_REM	2	S	GTA01I Address %I188
189	%I0221	li_61lrt_001jd_110v_c1	G1 FALLA ALIMENTACION 110VCC C1	FALLA			0161LRT_001JD_110V_C1	11	S	GTA01I Address %I189
190	%I0222	li_61lrt_001jd_48v_c2	G1 FALLA ALIMENTACION 48VCC C2	FALLA			0161LRT_001JD_48V_C2	11	S	GTA01I Address %I190
191	%I0223							1		GTA01I Address %I191
192	%I0224	li_61lrt1jd_s4_sel_loc	G1 INTERRUPTOR 138KV NIV CONTROL	LOCAL			0161LRT1JD_S4_SEL_LOC	2		GTA01I Address %I192
193	%I0225	li_gta_pol_ihr_slot09	G1 POLARIDAD IHR SLOT9	PRESENC			01GTA_POL_IHR_SLOT09	22	S	GTA01I Address %I193
194	%I0226	li_gtarl_protincd_031xr	G1 TRAF PRINCIPAL: ALARMA INCEND	DETECT			01GTARLPROTINCDD031XR	11	S	GTA01I Address %I194
195	%I0227	li_gtarl_protinc_prealar	G1 TRAF PRINCIP: PRE ALARM INCEN	DETECT			01GTARLPROTINCDPREALAR	11	S	GTA01I Address %I195
196	%I0228	li_gtarl_circ_gua_inc	G1 TRAF PRINCIP: CIRC AGUA INCEN	DETECT			01GTARL_CIRC_GUA_INC	11	S	GTA01I Address %I196
197	%I0229	li_61lrt_sf6_pres_fa	G1 INTERRUPTOR PRESION SF6	FALLA			61LRT_SF6_PRESEN_FA	11	S	GTA01I Address %I197
198	%I0230	li_61lrt001g1_51bf1	G1 DISPARO VIA 51BF LINEAL L1001	DISPARO			61LRT001G1_51BF1	11	S	GTA01I Address %I198
199	%I0231	li_62lrt001g1_51bf1	G1 DISPARO VIA 51BF LINEAL L1002	DISPARO			62LRT001G1_51BF1	11	S	GTA01I Address %I199
200	%I0232	li_63lrt001g1_51bf1	G1 DISPARO VIA 51BF LINEAL L0632	DISPARO			63LRT001G1_51BF1	11	S	GTA01I Address %I200
201	%I0233	li_gtarl4_rel51bf2	G1 DISPARO VIA 51BF UNIDAD 3	DISPARO			01GTARL4_REL51BF2	11	S	GTA01I Address %I201
202	%I0234	li_gtarl4_rel51bf3	G1 DISPARO VIA 51BF UNIDAD 2	DISPARO			01GTARL4_REL51BF3	11	S	GTA01I Address %I202
203	%I0235							1		GTA01I Address %I203
204	%I0236	li_gta_protincd_050xr	G1 PROT INCENDIO GENERADOR	DISPARO			01GTA_PROTINCDD_050XR	11	S	GTA01I Address %I204
205	%I0237	li_gta_sist_anti_inc	G1 SISTEMA ANTI-INCENDIO GENERAD	FALLA			01GTA_SIST_ANTI_INC	21	S	GTA01I Address %I205
206	%I0238	li_gta_protvibra_1u	G1 SISTEMA DE VIBRACION	ALARMA			01GTA_PROTVIBRA_1U	21	S	GTA01I Address %I206



207	%I0239	li_gta_protvibra_2u	G1 SISTEMA DE VIBRACION	DISPARO			01GTA_PROTVIBRA_2U	11	S	GTA01I Address %I207
208	%I0240	li_gex_disprot_51e	G1 EXCITACIÓN PROTECCION 51E	DISPARO			01GEX_DISPROT_51E	11	S	GTA01I Address %I208
209	%I0241	li_gex_disprot_49e	G1 EXCITACIÓN PROTECCION 49E	DISPARO			01GEX_DISPROT_49E	11	S	GTA01I Address %I209
210	%I0242	li_gex_disprot_49r	G1 EXCITACIÓN PROTECCION 49R	DISPARO			01GEX_DISPROT_49R	11	S	GTA01I Address %I210
211	%I0243	li_gta001tr_t_ac_alar	G1 TRAF0 PRINCIPAL: TEMP ACEITE	ALARMA			01GTA001TR_T_AC_ALAR	21	S	GTA01I Address %I211
212	%I0244	li_gta001tr_t_ac_paro	G1 TRAF0 PRINCIPAL: TEMP ACEITE	DISPARO			01GTA001TR_T_AC_PARO	11	S	GTA01I Address %I212
213	%I0245	li_gta001tr_oper_vent	G1 MOTVENTILADORES EN OPERACIÓN	SI			01GTA001TR_OPER_VENT	2	S	GTA01I Address %I213
214	%I0246	li_gta1tr_alim_auxi_f	G1 TRAF0 PRINCIPAL: ALIMENT AUXI	FALLA			01GTA1TR ALIM_AUXI_F	21	S	GTA01I Address %I214
215	%I0247	li_gta1tr_alim_rel_t_f	G1 TRAF0 PRINC ALIMENT REL TEMP	FALLA			01GTA1TR ALIM_REL_T_F	21	S	GTA01I Address %I215
216	%I0248	li_gta1tr_rel_t_falla	G1 TRAF0 PRINCIPAL: RELES TEMPER	FALLA			01GTA1TR_REL_T_FALLA	21	S	GTA01I Address %I216
217	%I0249							1		GTA01I Address %I217
218	%I0250	li_61lrt_001jd_disc	G1 INTERRUPTOR POSICION	DISCORD			0161LRT_001JD_DISC	2	S	GTA01I Address %I218
219	%I0251							1		GTA01I Address %I219
220	%I0252	li_gta_prot_60cirn1fa	G1 PROT RELE 60 CIRCUITO 1	FALLA			01GTA_PROT_60CIRN1FA	21	S	GTA01I Address %I220
221	%I0253	li_gta_prot_60cirn2fa	G1 PROT RELE 60 CIRCUITO 2	FALLA			01GTA_PROT_60CIRN2FA	21	S	GTA01I Address %I221
222	%I0254	li_gta_prot_60_disp	G1 PROT RELE 60-MVAP22	ALARMA			01GTA_PROT_60_DISP	11	S	GTA01I Address %I222
223	%I0255	li_gta_sist_aislado	G1 INFORMACION DE RED AISLADO	PRESENC			01GTA_SIST_AISLADO	21	S	GTA01I Address %I223
224	%I0256	li_gta_sist_intercon	G1 INFORMACION DE RED INTERCONE	PRESENC			01GTA_SIST_INTERCON	21	S	GTA01I Address %I224

III. OBSERVACIONES & COMENTARIOS

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IV. APROBACIONES

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		LISTA DE SEÑALES									
		ANEXO 2									
		PROYECTO: EVALUACIÓN Y TDR DE MODERNIZACION DEL SISTEMA DE CONTROL									
		CLIENTE:		EGEMSA		CODIGO:					
I. DATOS GENERALES											
SISTEMA:		SISTEMA DE CONTROL FASE I				SUB SISTEMA:		SISTEMA DE CONTROL DE UNIDAD			
HARDWARE:		PLC MAIN GRUPO 1				FUENTE:		APLICACIÓN PLC			
TIPO:		COMUNICACIÓN MODBUS INPUTS / LOGICAL									
II. TABLA DE DATOS											
ITEM	ADDRESS	MNEMONIC	LABEL	STATE 1	TO CTRLLOG	VAR REF	STD	TO F8000	TO MMI	TO S8000-E	LOCATION PLC
1	%M0481	li_gre_def_may_tslgs	G1 DEFECT MAYOR GOB TSLGS	FALLA	S	01GRE_DEF_MAY_TSLGS	11		S		Device:OTHER TSLGS Bit1
2	%M0482	li_gre_def_df_mjfg_tslgs	G1 MJFG SEÑAL FREC GRUPO TSLGS	FALLA	S	01GRE_DEF_DF_MJFG_TSLGS	11		S		Device:OTHER TSLGS Bit2
3	%M0483	li_gre_def_df_mjpo_tslgs	G1 MJPO SPC NO OPERACIONA TSLGS	FALLA	S	01GRE_DEF_DF_MJPO_TSLGS	11		S		Device:OTHER TSLGS Bit3
4	%M0484	li_gre_def_df_mjcm_tslgs	G1 MJCM COMUNIC UPC REDUN TSLGS	FALLA	S	01GRE_DEF_DF_MJCM_TSLGS	11		S		Device:OTHER TSLGS Bit4
5	%M0485						1				Device:OTHER TSLGS Bit5
6	%M0486						1				Device:OTHER TSLGS Bit6
7	%M0487						1				Device:OTHER TSLGS Bit7
8	%M0488						1				Device:OTHER TSLGS Bit8
9	%M0489						1				Device:OTHER TSLGS Bit9
10	%M0490						1				Device:OTHER TSLGS Bit10
11	%M0491						1				Device:OTHER TSLGS Bit11
12	%M0492						1				Device:OTHER TSLGS Bit12
13	%M0493						1				Device:OTHER TSLGS Bit13
14	%M0494						1				Device:OTHER TSLGS Bit14
15	%M0495						1				Device:OTHER TSLGS Bit15
16	%M0496						1				Device:OTHER TSLGS Bit16
17	%M0497	li_gre_r129_tslgs	G1 DEFECT MENOR R129 TSLGS	FALLA	S	01GRE_R129_TSLGS	21		S		Device:OTHER TSLGS Bit17
18	%M0498	li_gre_def_df_mipo_tslgs	G1 MIPO DEFECT MENOR SPC TSLGS	FALLA	S	01GRE_DEF_DF_MIPO_TSLGS	21		S		Device:OTHER TSLGS Bit18
19	%M0499	li_gre_def_df_fr_tslgs	G1 DEFECT FRECUENCIA RED TSLGS	FALLA	S	01GRE_DEF_DF_FR_TSLGS	21		S		Device:OTHER TSLGS Bit19
20	%M0500	li_gre_def_df_fg_tslgs	G1 DEFECT FRECUENCIA GRUPO TSLGS	FALLA	S	01GRE_DEF_DF_FG_TSLGS	21		S		Device:OTHER TSLGS Bit20
21	%M0501	li_gre_def_df_w_tslgs	G1 DEFECT SEÑAL POTENCIA TSLGS	FALLA	S	01GRE_DEF_DF_W_TSLGS	21		S		Device:OTHER TSLGS Bit21
22	%M0502	li_gre_def_df_oe_tslgs	G1 DEFECT OE CONSIG CARGA TSLGS	FALLA	S	01GRE_DEF_DF_OE_TSLGS	21		S		Device:OTHER TSLGS Bit22
23	%M0503	li_gre_def_df_ch_tslgs	G1 DEFECT CH MEDIDA CAIDA TSLGS	FALLA	S	01GRE_DEF_DF_CH_TSLGS	21		S		Device:OTHER TSLGS Bit23
24	%M0504	li_gre_def_df_am_tslgs	G1 DEFECT AM NIVEL ANTERIO TSLGS	FALLA	S	01GRE_DEF_DF_AM_TSLGS	21		S		Device:OTHER TSLGS Bit24
25	%M0505	li_gre_def_df_av_tslgs	G1 DEFECT AV NIVEL POTERI TSLGS	FALLA	S	01GRE_DEF_DF_AV_TSLGS	21		S		Device:OTHER TSLGS Bit25
26	%M0506						1				Device:OTHER TSLGS Bit26
27	%M0507						1				Device:OTHER TSLGS Bit27
28	%M0508	li_gre_def_df_rdcn_tslgs	G1 RDCM COMUNIC UPC REDUN TSLGS	FALLA	S	01GRE_DEF_DF_RDCM_TSLGS	21		S		Device:OTHER TSLGS Bit28
29	%M0509						1				Device:OTHER TSLGS Bit29
30	%M0510						1				Device:OTHER TSLGS Bit30
31	%M0511						1				Device:OTHER TSLGS Bit31
32	%M0512						1				Device:OTHER TSLGS Bit32
33	%M0513	li_gre_r11_tslgs	G1 R11 EN LIMITACION TSLGS	DETECT	S	01GRE_R11_TSLGS	21		S		Device:OTHER TSLGS Bit33
34	%M0514						1				Device:OTHER TSLGS Bit34
35	%M0515	li_gre_r104_tslgs	G1 R104 ENCIMA MAR VACIO TSLGS	DETECT	S	01GRE_R104_TSLGS	21		S		Device:OTHER TSLGS Bit35
36	%M0516	li_gre_r307_tslgs	G1 R307 CONSIGNA ANALOGICA TSLGS	DETECT	S	01GRE_R307_TSLGS	21		S		Device:OTHER TSLGS Bit36
37	%M0517	li_gre_r270_tslgs	G1 R270 ACTUADORES FUNCTO TSLGS	DETECT	S	01GRE_R270_TSLGS	21		S		Device:OTHER TSLGS Bit37
38	%M0518	li_gre_r300a_tslgs	G1 R300A CONTROL LOC_AUTO TSLGS	DETECT	S	01GRE_R300A_TSLGS	21		S		Device:OTHER TSLGS Bit38
39	%M0519	li_gre_r300m_tslgs	G1 R300M CONTROL LOC_MAN TSLGS	DETECT	S	01GRE_R300M_TSLGS	21		S		Device:OTHER TSLGS Bit39
40	%M0520	li_gre_r305_tslgs	G1 R305 RETROALIM POTENCIA TSLGS	DETECT	S	01GRE_R305_TSLGS	21		S		Device:OTHER TSLGS Bit40
41	%M0521	li_gre_r328_tslgs	G1 R328 ELECC RED AISLADA TSLGS	DETECT	S	01GRE_R328_TSLGS	21		S		Device:OTHER TSLGS Bit41
42	%M0522						1				Device:OTHER TSLGS Bit42
43	%M0523	li_gre_r80_tslgs	G1 R80 REGULADOR ACTIVO TSLGS	DETECT	S	01GRE_R80_TSLGS	21		S		Device:OTHER TSLGS Bit43

44	%M0524	li_gre_r81_tsigs	G1 R80 MODO PRUEBA TSLGS	DETECT	S	01GRE_R81_TSLGS	21		S		Device:OTHER TSLGS BII44
45	%M0525						1				Device:OTHER TSLGS BII45
46	%M0526						1				Device:OTHER TSLGS BII46
47	%M0527						1				Device:OTHER TSLGS BII47
48	%M0528						1				Device:OTHER TSLGS BII48
49	%M0529	li_gre_def_dspc1_tsigs	G1 DEFECT SPC01 TSLGS	FALLA	S	01GRE_DEF_DSPC1_TSLGS	21		S		Device:OTHER TSLGS BII49
50	%M0530	li_gre_def_dspc2_tsigs	G1 DEFECT SPC02 TSLGS	FALLA	S	01GRE_DEF_DSPC2_TSLGS	21		S		Device:OTHER TSLGS BII50
51	%M0531	li_gre_def_dspc3_tsigs	G1 DEFECT SPC03 TSLGS	FALLA	S	01GRE_DEF_DSPC3_TSLGS	21		S		Device:OTHER TSLGS BII51
52	%M0532	li_gre_def_dspc4_tsigs	G1 DEFECT SPC04 TSLGS	FALLA	S	01GRE_DEF_DSPC4_TSLGS	21		S		Device:OTHER TSLGS BII52
53	%M0533	li_gre_def_dspc5_tsigs	G1 DEFECT SPC05 TSLGS	FALLA	S	01GRE_DEF_DSPC5_TSLGS	21		S		Device:OTHER TSLGS BII53
54	%M0534	li_gre_def_dspc6_tsigs	G1 DEFECT SPC06 TSLGS	FALLA	S	01GRE_DEF_DSPC6_TSLGS	21		S		Device:OTHER TSLGS BII54
55	%M0535						1				Device:OTHER TSLGS BII55
56	%M0536						1				Device:OTHER TSLGS BII56
57	%M0537						1				Device:OTHER TSLGS BII57
58	%M0538						1				Device:OTHER TSLGS BII58
59	%M0539						1				Device:OTHER TSLGS BII59
60	%M0540						1				Device:OTHER TSLGS BII60
61	%M0541						1				Device:OTHER TSLGS BII61
62	%M0542						1				Device:OTHER TSLGS BII62
63	%M0543						1				Device:OTHER TSLGS BII63
64	%M0544						1				Device:OTHER TSLGS BII64
65	%M0545	li_gre_r24_tsigs	G1 R24 CONS CAR/FREQ CERO TSLGS	DETECT	S	01GRE_R24_TSLGS	21		S		Device:OTHER TSLGS BII65
66	%M0546	li_gre_r120_tsigs	G1 R120 MANDO DEFLECTOR TSLGS	DETECT	S	01GRE_R120_TSLGS	21		S		Device:OTHER TSLGS BII66
67	%M0547	li_gre_r124_tsigs	G1 R124 CONS CAR/FREQ MIN TSLGS	DETECT	S	01GRE_R124_TSLGS	21		S		Device:OTHER TSLGS BII67
68	%M0548	li_gre_r133_tsigs	G1 R133 CONS LO A CERO TSLGS	DETECT	S	01GRE_R133_TSLGS	21		S		Device:OTHER TSLGS BII68
69	%M0549	li_gre_r224_tsigs	G1 R224 CONS CAR/FREQ+100% TSLGS	DETECT	S	01GRE_R224_TSLGS	21		S		Device:OTHER TSLGS BII69
70	%M0550	li_gre_r233_tsigs	G1 R233 CONSIGNA LO A 100% TSLGS	DETECT	S	01GRE_R233_TSLGS	21		S		Device:OTHER TSLGS BII70
71	%M0551	li_gre_r300_tsigs	G1 R300 GOBER MODO DISTAN TSLGS	DIST	S	01GRE_R300_TSLGS	21		S		Device:OTHER TSLGS BII71
72	%M0552						1				Device:OTHER TSLGS BII72
73	%M0553						1				Device:OTHER TSLGS BII73
74	%M0554						1				Device:OTHER TSLGS BII74
75	%M0555						1				Device:OTHER TSLGS BII75
76	%M0556						1				Device:OTHER TSLGS BII76
77	%M0557						1				Device:OTHER TSLGS BII77
78	%M0558						1				Device:OTHER TSLGS BII78
79	%M0559						1				Device:OTHER TSLGS BII79
80	%M0560						1				Device:OTHER TSLGS BII80
81	%M0561	li_gre_r80mbus_tsigs	G1 R80 MODBUS ACTIVA TSLGS	DETECT	S	01GRE_R80MBUS_TSLGS	21		S		Device:OTHER TSLGS BII81
82	%M0562						1				Device:OTHER TSLGS BII82
83	%M0563						1				Device:OTHER TSLGS BII83
84	%M0564						1				Device:OTHER TSLGS BII84
85	%M0565						1				Device:OTHER TSLGS BII85
86	%M0566						1				Device:OTHER TSLGS BII86
87	%M0567						1				Device:OTHER TSLGS BII87
88	%M0568						1				Device:OTHER TSLGS BII88
89	%M0569						1				Device:OTHER TSLGS BII89
90	%M0570						1				Device:OTHER TSLGS BII90
91	%M0571						1				Device:OTHER TSLGS BII91
92	%M0572						1				Device:OTHER TSLGS BII92
93	%M0573						1				Device:OTHER TSLGS BII93
94	%M0574						1				Device:OTHER TSLGS BII94
95	%M0575						1				Device:OTHER TSLGS BII95
96	%M0576						1				Device:OTHER TSLGS BII96
97	%M0577	li_gre_r5_tsigs	G1 R5 RETROALIM POTENCIA TSLGS	DETECT	S	01GRE_R5_TSLGS	21		S		Device:OTHER TSLGS BII97

98	%M0578	li_gre_r4_tsigs	G1 R4 INSENSIBILIDAD VELO TSLGS	DETECT	S	01GRE_R4_TSLGS	21		S		Device:OTHER TSLGS Bit98
99	%M0579						1				Device:OTHER TSLGS Bit99
100	%M0580						1				Device:OTHER TSLGS Bit100
101	%M0581	li_gre_r128_tsigs	G1 R128 RED AISLADA TSLGS	DETECT	S	01GRE_R128_TSLGS	21		S		Device:OTHER TSLGS Bit101
102	%M0582						1				Device:OTHER TSLGS Bit102
103	%M0583						1				Device:OTHER TSLGS Bit103
104	%M0584	li_gre_r7_tsigs	G1 R7 CONSIGNA CAR MODBUS TSLGS	DETECT	S	01GRE_R7_TSLGS	21		S		Device:OTHER TSLGS Bit104
105	%M0585						1				Device:OTHER TSLGS Bit105
106	%M0586						1				Device:OTHER TSLGS Bit106
107	%M0587						1				Device:OTHER TSLGS Bit107
108	%M0588	li_gre_r98_tsigs	G1 R98 FUNCTO REPAR CHORRO TSLGS	DETECT	S	01GRE_R98_TSLGS	21		S		Device:OTHER TSLGS Bit108
109	%M0589						1				Device:OTHER TSLGS Bit109
110	%M0590						1				Device:OTHER TSLGS Bit110
111	%M0591						1				Device:OTHER TSLGS Bit111
112	%M0592						1				Device:OTHER TSLGS Bit112
113	%M0785	li_gre_r24_tsign	G1 R24 CONS CAR/FREQ CERO TSLGN	DETECT	S	01GRE_R24_TSLGN	21		S		Device:OTHER TSLGN Bit1
114	%M0786	li_gre_r120_tsign	G1 R120 MANDO DEFLECTOR TSLGN	DETECT	S	01GRE_R120_TSLGN	21		S		Device:OTHER TSLGN Bit2
115	%M0787	li_gre_r124_tsign	G1 R124 CONS CAR/FREQ MIN TSLGN	DETECT	S	01GRE_R124_TSLGN	21		S		Device:OTHER TSLGN Bit3
116	%M0788	li_gre_r133_tsign	G1 R133 CONS LO A CERO TSLGN	DETECT	S	01GRE_R133_TSLGN	21		S		Device:OTHER TSLGN Bit4
117	%M0789	li_gre_r224_tsign	G1 R224 CONS CAR/FREQ+100% TSLGN	DETECT	S	01GRE_R224_TSLGN	21		S		Device:OTHER TSLGN Bit5
118	%M0790	li_gre_r233_tsign	G1 R233 CONSIGNA LO A 100% TSLGN	DETECT	S	01GRE_R233_TSLGN	21		S		Device:OTHER TSLGN Bit6
119	%M0791	li_gre_r300_tsign	G1 R300 GOBER MODO DISTAN TSLGN	DIST	S	01GRE_R300_TSLGN	21		S		Device:OTHER TSLGN Bit7
120	%M0792						1				Device:OTHER TSLGN Bit8
121	%M0793						1				Device:OTHER TSLGN Bit9
122	%M0794						1				Device:OTHER TSLGN Bit10
123	%M0795						1				Device:OTHER TSLGN Bit11
124	%M0796						1				Device:OTHER TSLGN Bit12
125	%M0797						1				Device:OTHER TSLGN Bit13
126	%M0798						1				Device:OTHER TSLGN Bit14
127	%M0799						1				Device:OTHER TSLGN Bit15
128	%M0800						1				Device:OTHER TSLGN Bit16
129	%M0801	li_gre_def_may_tsign	G1 DEFECT MENOR R129 TSLGN	FALLA	S	01GRE_DEF_MAY_TSLGN	11		S		Device:OTHER TSLGN Bit17
130	%M0802	li_gre_def_df_mjfg_tsign	G1 MJFG SEÑAL FREC GRUPO TSLGN	FALLA	S	01GRE_DEF_DF_MJFG_TSLGN	11		S		Device:OTHER TSLGN Bit18
131	%M0803	li_gre_def_df_mjpo_tsign	G1 MJPO SPC NO OPERACIONA TSLGN	FALLA	S	01GRE_DEF_DF_MJPO_TSLGN	11		S		Device:OTHER TSLGN Bit19
132	%M0804	li_gre_def_df_mjcm_tsign	G1 MJCM COMUNIC UPC REDUN TSLGN	FALLA	S	01GRE_DEF_DF_MJCM_TSLGN	11		S		Device:OTHER TSLGN Bit20
133	%M0805						1				Device:OTHER TSLGN Bit21
134	%M0806						1				Device:OTHER TSLGN Bit22
135	%M0807						1				Device:OTHER TSLGN Bit23
136	%M0808						1				Device:OTHER TSLGN Bit24
137	%M0809						1				Device:OTHER TSLGN Bit25
138	%M0810						1				Device:OTHER TSLGN Bit26
139	%M0811						1				Device:OTHER TSLGN Bit27
140	%M0812						1				Device:OTHER TSLGN Bit28
141	%M0813						1				Device:OTHER TSLGN Bit29
142	%M0814						1				Device:OTHER TSLGN Bit30
143	%M0815						1				Device:OTHER TSLGN Bit31
144	%M0816						1				Device:OTHER TSLGN Bit32
145	%M0817	li_gre_def_r129_tsign	G1 DEFECT MENOR R129 TSLGN	FALLA	S	01GRE_DEF_R129_TSLGN	21		S		Device:OTHER TSLGN Bit33
146	%M0818	li_gre_def_df_mipo_tsign	G1 MIPO DEFECT MENOR SPC TSLGN	FALLA	S	01GRE_DEF_DF_MIPO_TSLGN	21		S		Device:OTHER TSLGN Bit34
147	%M0819	li_gre_def_df_fr_tsign	G1 DEFECT FRECUENCIA RED TSLGN	FALLA	S	01GRE_DEF_DF_FR_TSLGN	21		S		Device:OTHER TSLGN Bit35
148	%M0820	li_gre_def_df_fg_tsign	G1 DEFECT FRECUENCIA GRUPO TSLGN	FALLA	S	01GRE_DEF_DF_FG_TSLGN	21		S		Device:OTHER TSLGN Bit36
149	%M0821	li_gre_def_df_w_tsign	G1 DEFECT SEÑAL POTENCIA TSLGN	FALLA	S	01GRE_DEF_DF_W_TSLGN	21		S		Device:OTHER TSLGN Bit37
150	%M0822	li_gre_def_df_oe_tsign	G1 DEFECT OE CONSIG CARGA TSLGN	FALLA	S	01GRE_DEF_DF_OE_TSLGN	21		S		Device:OTHER TSLGN Bit38
151	%M0823	li_gre_def_df_ch_tsign	G1 DEFECT CH MEDIDA CAIDA TSLGN	FALLA	S	01GRE_DEF_DF_CH_TSLGN	21		S		Device:OTHER TSLGN Bit39

152	%M0824	li_gre_def_df_am_tslgn	G1 DEFECT AM NIVEL ANTERIO TSLGN	FALLA	S	01GRE_DEF_DF_AM_TSLGN	21		S		Device:OTHER TSLGN Bii40
153	%M0825	li_gre_def_df_av_tslgn	G1 DEFECT AV NIVEL POTERI TSLGN			01GRE_DEF_DF_AV_TSLGN	21				Device:OTHER TSLGN Bii41
154	%M0826						1				Device:OTHER TSLGN Bii42
155	%M0827						1				Device:OTHER TSLGN Bii43
156	%M0828	li_gre_def_df_rdcn_tslgn	G1 RDCM COMUNIC UPC REDUN TSLGN	FALLA	S	01GRE_DEF_DF_RDCM_TSLGN	21		S		Device:OTHER TSLGN Bii44
157	%M0829						1				Device:OTHER TSLGN Bii45
158	%M0830						1				Device:OTHER TSLGN Bii46
159	%M0831						1				Device:OTHER TSLGN Bii47
160	%M0832						1				Device:OTHER TSLGN Bii48
161	%M0833	li_gre_r11_tslgn	G1 R11 FUNCTO EN LIMITACION	DETECT	S	01GRE_R11_TSLGN	21		S		Device:OTHER TSLGN Bii49
162	%M0834						1				Device:OTHER TSLGN Bii50
163	%M0835	li_gre_r104_tslgn	G1 R104 ENCIMA MAR VACIO TSLGN	DETECT	S	01GRE_R104_TSLGN	21		S		Device:OTHER TSLGN Bii51
164	%M0836	li_gre_r307_tslgn	G1 R307 CONSIGNA ANALOGICA TSLGN	DETECT	S	01GRE_R307_TSLGN	21		S		Device:OTHER TSLGN Bii52
165	%M0837	li_gre_r270_tslgn	G1 R270 ACTUADORES FUNCTO TSLGN	DETECT	S	01GRE_R270_TSLGN	21		S		Device:OTHER TSLGN Bii53
166	%M0838	li_gre_r300a_tslgn	G1 R300A CONTROL LOC_AUTO TSLGN	DETECT	S	01GRE_R300A_TSLGN	21		S		Device:OTHER TSLGN Bii54
167	%M0839	li_gre_r300m_tslgn	G1 R300M CONTROL LOC_MAN TSLGN	DETECT	S	01GRE_R300M_TSLGN	21		S		Device:OTHER TSLGN Bii55
168	%M0840	li_gre_r305_tslgn	G1 R305 RETROALIM POTENCIA TSLGN	DETECT	S	01GRE_R305_TSLGN	21		S		Device:OTHER TSLGN Bii56
169	%M0841	li_gre_r328_tslgn	G1 R328 ELECC RED AISLADA TSLGN	DETECT	S	01GRE_R328_TSLGN	21		S		Device:OTHER TSLGN Bii57
170	%M0842						1				Device:OTHER TSLGN Bii58
171	%M0843	li_gre_r80_tslgn	G1 R80 REG ACTIVO TSLGN	DETECT	S	01GRE_R80_TSLGN	21		S		Device:OTHER TSLGN Bii59
172	%M0844	li_gre_r81_tslgn	G1 R81 MODO PRUEBA TSLGN	DETECT	S	01GRE_R81_TSLGN	21		S		Device:OTHER TSLGN Bii60
173	%M0845						21				Device:OTHER TSLGN Bii61
174	%M0846						1				Device:OTHER TSLGN Bii62
175	%M0847						1				Device:OTHER TSLGN Bii63
176	%M0848						1				Device:OTHER TSLGN Bii64
177	%M0849	li_gre_r80mbus_tslgn	G1 R80 MODBUS ACTIVO TSLGN	DETECT	S	01GRE_R80MBUS_TSLGN	21		S		Device:OTHER TSLGN Bii65
178	%M0850						1				Device:OTHER TSLGN Bii66
179	%M0851						1				Device:OTHER TSLGN Bii67
180	%M0852						1				Device:OTHER TSLGN Bii68
181	%M0853						1				Device:OTHER TSLGN Bii69
182	%M0854						1				Device:OTHER TSLGN Bii70
183	%M0855						1				Device:OTHER TSLGN Bii71
184	%M0856						1				Device:OTHER TSLGN Bii72
185	%M0857						1				Device:OTHER TSLGN Bii73
186	%M0858						1				Device:OTHER TSLGN Bii74
187	%M0859						1				Device:OTHER TSLGN Bii75
188	%M0860						1				Device:OTHER TSLGN Bii76
189	%M0861						1				Device:OTHER TSLGN Bii77
190	%M0862						1				Device:OTHER TSLGN Bii78
191	%M0863						1				Device:OTHER TSLGN Bii79
192	%M0864						1				Device:OTHER TSLGN Bii80
193	%M0865	li_gre_r5_tslgn	G1 R5 RETROALIM POTENCIA TSLGN	DETECT	S	01GRE_R5_TSLGN	21		S		Device:OTHER TSLGN Bii81
194	%M0866	li_gre_r4_tslgn	G1 R4 INSENSIBILIDAD VELOCI TSLGN	DETECT	S	01GRE_R4_TSLGN	21		S		Device:OTHER TSLGN Bii82
195	%M0867						1				Device:OTHER TSLGN Bii83
196	%M0868						1				Device:OTHER TSLGN Bii84
197	%M0869	li_gre_r128_tslgn	G1 R128 RED AISLADA TSLGN	DETECT	S	01GRE_R128_TSLGN	21		S		Device:OTHER TSLGN Bii85
198	%M0870						1				Device:OTHER TSLGN Bii86
199	%M0871						1				Device:OTHER TSLGN Bii87
200	%M0872	li_gre_r7_tslgn	G1 R7 CONSIGNA CAR MBUS TSLGN	DETECT	S	01GRE_R7_TSLGN	21		S		Device:OTHER TSLGN Bii88
201	%M0873						1				Device:OTHER TSLGN Bii89
202	%M0874						1				Device:OTHER TSLGN Bii90
203	%M0875						1				Device:OTHER TSLGN Bii91
204	%M0876	li_gre_r98_tslgn	G1 R98 FUNCTO REPAR CHORRO TSLGN	DETECT	S	01GRE_R98_TSLGN	21		S		Device:OTHER TSLGN Bii92
205	%M0877						1				Device:OTHER TSLGN Bii93

206	%M0878						1				Device:OTHER TSLGN Bit94
207	%M0879						1				Device:OTHER TSLGN Bit95
208	%M0880						1				Device:OTHER TSLGN Bit96
209	%M0881	li_gre_def_dspsc1_tslgn	G1 DEFECT SPC01 TSLGN	FALLA	S	01GRE_DEF_DSPSC1_TSLGN	21		S		Device:OTHER TSLGN Bit97
210	%M0882	li_gre_def_dspsc2_tslgn	G1 DEFECT SPC02 TSLGN	FALLA	S	01GRE_DEF_DSPSC2_TSLGN	21		S		Device:OTHER TSLGN Bit98
211	%M0883	li_gre_def_dspsc3_tslgn	G1 DEFECT SPC03 TSLGN	FALLA	S	01GRE_DEF_DSPSC3_TSLGN	21		S		Device:OTHER TSLGN Bit99
212	%M0884	li_gre_def_dspsc4_tslgn	G1 DEFECT SPC04 TSLGN	FALLA	S	01GRE_DEF_DSPSC4_TSLGN	21		S		Device:OTHER TSLGN Bit100
213	%M0885	li_gre_def_dspsc5_tslgn	G1 DEFECT SPC05 TSLGN	FALLA	S	01GRE_DEF_DSPSC5_TSLGN	21		S		Device:OTHER TSLGN Bit101
214	%M0886	li_gre_def_dspsc6_tslgn	G1 DEFECT SPC06 TSLGN	FALLA	S	01GRE_DEF_DSPSC6_TSLGN	21		S		Device:OTHER TSLGN Bit102
215	%M0887						1				Device:OTHER TSLGN Bit103
216	%M0888						1				Device:OTHER TSLGN Bit104
217	%M0889						1				Device:OTHER TSLGN Bit105
218	%M0890						1				Device:OTHER TSLGN Bit106
219	%M0891						1				Device:OTHER TSLGN Bit107
220	%M0892						1				Device:OTHER TSLGN Bit108
221	%M0893						1				Device:OTHER TSLGN Bit109
222	%M0894						1				Device:OTHER TSLGN Bit110
223	%M0895						1				Device:OTHER TSLGN Bit111
224	%M0896						1				Device:OTHER TSLGN Bit112
225	%M0897	li_gta_med_eva_valid	G1 COM MODBUS CON EVA	NORMAL	S	01GTA_MED_EVA_VALID	22		S		Device: PECA_EVA MEDICION Validity Bit
226	%M0898	li_gta_cont_other_valid	G1 COM MODBUS CON ION8500	NORMAL	S	01GTA_CONT_OTHER_VALID	22		S		Device:OTHER CONT_G1 Validity Bit
227	%M0904	li_gta_exc_other_valid	G1 COM MODBUS CON AVR820	NORMAL	S	01GTA_EXC_OTHER_VALID	22		S		Device:OTHER EXCITACION Validity Bit
228	%M0905	li_gre_velo_tslgn_valid	G1 COM MODBUS CON TSLGN	NORMAL	S	01GRE_VELO_TSLGN_VALID	22		S		Device:OTHER TSLGN Validity Bit
229	%M0906	li_gre_velo_tslgs_valid	G1 COM MODBUS CON TSLGS	NORMAL	S	01GRE_VELO_TSLGS_VALID	22		S		Device:OTHER TSLGS Validity Bit
230	%M0928	li_gta_rtd_chess_valid	G1 COM MODBUS CON CHEssel	NORMAL	S	01GTA_RTD_CHESS_VALID	22		S		Device: CHEsSELL RTD-TEMP Validity Bit
231	%M2049	li_gal_03mr_t_bob_u_t110	G1 TEMP ESTATOR GEN BOB U	ALARMA	S	01GAL_03MR_T_BOB_U_T110	21		S		Device: CHEsSELL RTD-TEMP Word1 Alarm1
232	%M2050	li_gal_09mr_t_bob_v_t111	G1 TEMP ESTATOR GEN BOB V	ALARMA	S	01GAL_09MR_T_BOB_V_T111	21		S		Device: CHEsSELL RTD-TEMP Word2 Alarm1
233	%M2051	li_gal_06mr_t_bob_w_t110	G1 TEMP ESTATOR GEN BOB W	ALARMA	S	01GAL_06MR_T_BOB_W_T110	21		S		Device: CHEsSELL RTD-TEMP Word3 Alarm1
234	%M2052	li_gtb_23mr_t_met_t80	G1 TEMP METAL COJ EMPUJE	ALARMA	S	01GTB_23MR_T_MET_T80	21		S		Device: CHEsSELL RTD-TEMP Word4 Alarm1
235	%M2053	li_gtb_25mr_t_ac_t80	G1 TEMP ACEITE COJ EMPUJE	ALARMA	S	01GTB_25MR_T_AC_T80	21		S		Device: CHEsSELL RTD-TEMP Word5 Alarm1
236	%M2054	li_gtb_24mr_t_met_t80	G1 TEMP METAL COJ GUIA GEN	ALARMA	S	01GTB_24MR_T_MET_T80	21		S		Device: CHEsSELL RTD-TEMP Word6 Alarm1
237	%M2055	li_gal_13mr_air_fri_t40	G1 TEMP AIRE FRIO GEN	ALTO	S	01GAL_13MR_AIR_FRI_T40	21		S		Device: CHEsSELL RTD-TEMP Word7 Alarm1
238	%M2056	li_gal_14mr_air_cal_t80	G1 TEMP AIRE CALIENTE GEN	ALTO	S	01GAL_14MR_AIR_CAL_T80	21		S		Device: CHEsSELL RTD-TEMP Word8 Alarm1
239	%M2057	li_gal_15mr_t_ag_t40	G1 TEMP ENTRADA AGUA REF GEN	ALTO	S	01GAL_15MR_T_AG_T40	21		S		Device: CHEsSELL RTD-TEMP Word9 Alarm1
240	%M2058	li_gal_16mr_t_ag_t40	G1 TEMP SALIDA AGUA REF GEN	ALTO	S	01GAL_16MR_T_AG_T40	21		S		Device: CHEsSELL RTD-TEMP Word10 Alarm1
241	%M2059	li_gal_10mr_t_mag1_t100	G1 TEMP CIRCUITO MAGNET1 GEN	ALARMA	S	01GAL_10MR_T_MAG1_T100	21		S		Device: CHEsSELL RTD-TEMP Word11 Alarm1
242	%M2060	li_gal_11mr_t_mag2_t100	G1 TEMP CIRCUITO MAGNET2 GEN	ALARMA	S	01GAL_11MR_T_MAG2_T100	21		S		Device: CHEsSELL RTD-TEMP Word12 Alarm1
243	%M2061	li_gal_12mr_t_mag3_t100	G1 TEMP CIRCUITO MAGNET3 GEN	ALARMA	S	01GAL_12MR_T_MAG3_T100	21		S		Device: CHEsSELL RTD-TEMP Word13 Alarm1
244	%M2062	li_gtb_38mr_ag_c_t40	G1 TEMP AGUA CALIENTE COJ GEN	ALTO	S	01GTB_38MR_AG_C_T40	21		S		Device: CHEsSELL RTD-TEMP Word14 Alarm1
245	%M2063	li_gtb_39mr_ag_f_t40	G1 TEMP AGUA FRIA COJ GEN	ALTO	S	01GTB_39MR_AG_F_T40	21		S		Device: CHEsSELL RTD-TEMP Word15 Alarm1
246	%M2064	li_gtuc_t_met_c_t80	G1 TEMP METAL COJ GUIA TURB	ALARMA	S	01GTUC_T_MET_C_T80	21		S		Device: CHEsSELL RTD-TEMP Word16 Alarm1
247	%M2065	li_gtu_cu_txxx	G1 TEMP ACEITE SALIDA COJ TURB	ALARMA	S	01GTU_CU_TXXX	21		S		Device: CHEsSELL RTD-TEMP Word17 Alarm1
248	%M2066	li_gtu_cv_txxx	G1 TEMP ENTRADA AGUA COJ TURB	ALTO	S	01GTU_CV_TXXX	21		S		Device: CHEsSELL RTD-TEMP Word18 Alarm1
249	%M2067	li_gtu_cw_txxx	G1 TEMP SALIDA AGUA COJ TURB	ALTO	S	01GTU_CW_TXXX	21		S		Device: CHEsSELL RTD-TEMP Word19 Alarm1
250	%M2068	li_gta001tr_princ_ac	G1 TEMP ACEITE TRAF0 PRINCIPAL	ALARMA	S	01GTA001TR_PRINC_AC	21		S		Device: CHEsSELL RTD-TEMP Word20 Alarm1
251	%M2069	li_gta001tr_princ_bob	G1 TEMP BOBINA TRAF0 PRINCIPAL	ALARMA	S	01GTA001TR_PRINC_BOB	21		S		Device: CHEsSELL RTD-TEMP Word21 Alarm1
252	%M2070	li_gex_001tr_exc_bob1	G1 TEMP DEVANADO U TRAF0 EXC	ALARMA	S	01GEX_001TR_EXC_BOB1	21		S		Device: CHEsSELL RTD-TEMP Word22 Alarm1
253	%M2071	li_gex_001tr_exc_bob2	G1 TEMP DEVANADO V TRAF0 EXC	ALARMA	S	01GEX_001TR_EXC_BOB2	21		S		Device: CHEsSELL RTD-TEMP Word23 Alarm1
254	%M2072	li_gex_001tr_exc_bob3	G1 TEMP DEVANADO W TRAF0 EXC	ALARMA	S	01GEX_001TR_EXC_BOB3	21		S		Device: CHEsSELL RTD-TEMP Word24 Alarm1
255	%M2073						1				Device: CHEsSELL RTD-TEMP Word25 Alarm1
256	%M2074						1				Device: CHEsSELL RTD-TEMP Word26 Alarm1
257	%M2075						1				Device: CHEsSELL RTD-TEMP Word27 Alarm1
258	%M2076						1				Device: CHEsSELL RTD-TEMP Word28 Alarm1
259	%M2077						1				Device: CHEsSELL RTD-TEMP Word29 Alarm1

260	%M2078						1				Device: CHESSELL RTD-TEMP Word30 Alarm1
261	%M2079						1				Device: CHESSELL RTD-TEMP Word31 Alarm1
262	%M2080						1				Device: CHESSELL RTD-TEMP Word32 Alarm1
263	%M2145	li_gal_03mr_t_bo_u_t120	G1 TEMP ESTATOR GEN BOB U	DISPARO	S	01GAL_03MR_T_BO_U_T120	11		S		Device: CHESSELL RTD-TEMP Word1 Alarm2
264	%M2146	li_gal_09mr_t_bo_v_t120	G1 TEMP ESTATOR GEN BOB V	DISPARO	S	01GAL_09MR_T_BO_V_T120	11		S		Device: CHESSELL RTD-TEMP Word2 Alarm2
265	%M2147	li_gal_06mr_t_bo_w_t120	G1 TEMP ESTATOR GEN BOB W	DISPARO	S	01GAL_06MR_T_BO_W_T120	11		S		Device: CHESSELL RTD-TEMP Word3 Alarm2
266	%M2148	li_glb_23mr_t_met_t100	G1 TEMP METAL COJ EMPUJE	DISPARO	S	01GTB_23MR_T_MET_T100	11		S		Device: CHESSELL RTD-TEMP Word4 Alarm2
267	%M2149	li_glb_25mr_t_ac_t100	G1 TEMP ACEITE COJ EMPUJE	DISPARO	S	01GTB_25MR_T_AC_T100	11		S		Device: CHESSELL RTD-TEMP Word5 Alarm2
268	%M2150	li_glb_24mr_t_met_t100	G1 TEMP METAL COJ GUIA GEN	DISPARO	S	01GTB_24MR_T_MET_T100	11		S		Device: CHESSELL RTD-TEMP Word6 Alarm2
269	%M2151	li_gal_13mr_air_fri_t45	G1 TEMP AIRE FRIO GEN	MUY-ALTO	S	01GAL_13MR_AIR_FRI_T45	11		S		Device: CHESSELL RTD-TEMP Word7 Alarm2
270	%M2152	li_gal_14mr_air_cal_t90	G1 TEMP AIRE CALIENTE GEN	MUY-ALTO	S	01GAL_14MR_AIR_CAL_T90	11		S		Device: CHESSELL RTD-TEMP Word8 Alarm2
271	%M2153	li_gal_15mr_t_ag_t60	G1 TEMP ENTRADA AGUA REF GEN	MUY-ALTO	S	01GAL_15MR_T_AG_T60	11		S		Device: CHESSELL RTD-TEMP Word9 Alarm2
272	%M2154	li_gal_16mr_t_ag_t60	G1 TEMP SALIDA AGUA REF GEN	MUY-ALTO	S	01GAL_16MR_T_AG_T60	11		S		Device: CHESSELL RTD-TEMP Word10 Alarm2
273	%M2155	li_gal_10mr_t_mag1_t120	G1 TEMP CIRCUITO MAGNET1 GEN	DISPARO	S	01GAL_10MR_T_MAG1_T120	11		S		Device: CHESSELL RTD-TEMP Word11 Alarm2
274	%M2156	li_gal_11mr_t_mag2_t120	G1 TEMP CIRCUITO MAGNET2 GEN	DISPARO	S	01GAL_11MR_T_MAG2_T120	11		S		Device: CHESSELL RTD-TEMP Word12 Alarm2
275	%M2157	li_gal_12mr_t_mag3_t120	G1 TEMP CIRCUITO MAGNET3 GEN	DISPARO	S	01GAL_12MR_T_MAG3_T120	11		S		Device: CHESSELL RTD-TEMP Word13 Alarm2
276	%M2158	li_glb_38mr_ag_c_t60	G1 TEMP AGUA CALIENTE COJ GEN	MUY-ALTO	S	01GTB_38MR_AG_C_T60	11		S		Device: CHESSELL RTD-TEMP Word14 Alarm2
277	%M2159	li_glb_39mr_ag_f_t60	G1 TEMP AGUA FRIA COJ GEN	MUY-ALTO	S	01GTB_39MR_AG_F_T60	11		S		Device: CHESSELL RTD-TEMP Word15 Alarm2
278	%M2160	li_glucs_t_met_c_t100	G1 TEMP METAL COJ TURB	DISPARO	S	01GTUCS_T_MET_C_T100	11		S		Device: CHESSELL RTD-TEMP Word16 Alarm2
279	%M2161	li_glu_cu_tyyy	G1 TEMP ACEITE SALIDA COJ TURB	DISPARO	S	01GTU_CU_TYYY	11		S		Device: CHESSELL RTD-TEMP Word17 Alarm2
280	%M2162	li_glu_cv_tyyy	G1 TEMP ENTRADA AGUA COJ TURB	MUY-ALTO	S	01GTU_CV_TYYY	11		S		Device: CHESSELL RTD-TEMP Word18 Alarm2
281	%M2163	li_glu_cw_tyyy	G1 TEMP SALIDA AGUA COJ TURB	MUY-ALTO	S	01GTU_CW_TYYY	11		S		Device: CHESSELL RTD-TEMP Word19 Alarm2
282	%M2164	li_gla_001tr_princ_t80	G1 TEMP ACEITE TRAFO PRINCIPAL	DISPARO	S	01GTA_001TR_PRINC_T80	11		S		Device: CHESSELL RTD-TEMP Word20 Alarm2
283	%M2165	li_gla_001tr_princ_bob1	G1 TEMP BOBINA TRAFO PRINCIPAL	DISPARO	S	01GTA_001TR_PRINC_BOB1	11		S		Device: CHESSELL RTD-TEMP Word21 Alarm2
284	%M2166	li_gex_001tr_exc_bob1t	G1 TEMP BOBINA1 TRAFO EXC	DISPARO	S	01GEX_001TR_EXC_BOB1T	11		S		Device: CHESSELL RTD-TEMP Word22 Alarm2
285	%M2167	li_gex_001tr_exc_bob2t	G1 TEMP BOBINA2 TRAFO EXC	DISPARO	S	01GEX_001TR_EXC_BOB2T	11		S		Device: CHESSELL RTD-TEMP Word23 Alarm2
286	%M2168	li_gex_001tr_exc_bob3t	G1 TEMP BOBINA3 TRAFO EXC	DISPARO	S	01GEX_001TR_EXC_BOB3T	11		S		Device: CHESSELL RTD-TEMP Word24 Alarm2
287	%M2169						1				Device: CHESSELL RTD-TEMP Word25 Alarm2
288	%M2170						1				Device: CHESSELL RTD-TEMP Word26 Alarm2
289	%M2171						2				Device: CHESSELL RTD-TEMP Word27 Alarm2
290	%M2172						2				Device: CHESSELL RTD-TEMP Word28 Alarm2
291	%M2173						2				Device: CHESSELL RTD-TEMP Word29 Alarm2
292	%M2174						2				Device: CHESSELL RTD-TEMP Word30 Alarm2
293	%M2175						2				Device: CHESSELL RTD-TEMP Word31 Alarm2
294	%M2176						2				Device: CHESSELL RTD-TEMP Word32 Alarm2
295	%M2545	li_gex_arrq	G1 ESTADO REGUL VOLTAJE	EN-SERV	S	01GEX_ARRO	2		S		Device: OTHER EXCITACIÓN Bit 1
296	%M2546	li_gex_paro	G1 ESTADO REGUL VOLTAJE	PARADO	S	01GEX_PARO	2		S		Device: OTHER EXCITACIÓN Bit 2
297	%M2547	li_gex_auto	G1 MODO REGUL VOLTAJE	AUTO	S	01GEX_AUTO	2		S		Device: OTHER EXCITACIÓN Bit 3
298	%M2548	li_gex_manual	G1 MODO REGUL VOLTAJE	MANUAL	S	01GEX_MANUAL	2		S		Device: OTHER EXCITACIÓN Bit 4
299	%M2549						1				Device: OTHER EXCITACIÓN Bit 5
300	%M2550	li_gex_mod0_exc	G1 MODO OPERACIÓN EXC (APFR-AQR)	SELECC	S	01GEX_MOD0_EXC	2		S		Device: OTHER EXCITACIÓN Bit 6
301	%M2551						1				Device: OTHER EXCITACIÓN Bit 7
302	%M2552						1				Device: OTHER EXCITACIÓN Bit 8
303	%M2553	li_gex_lim_v_hz	G1 LIMITACION VOLT/HZ DEL GRUPO	DETECT	S	01GEX_LIM_V_HZ	2		S		Device: OTHER EXCITACIÓN Bit 9
304	%M2554	li_gex_lim_i_rot	G1 LIMITACION CORRIENTE EN ROTOR	DETECT	S	01GEX_LIM_I	2		S		Device: OTHER EXCITACIÓN Bit 10
305	%M2555	li_gex_lim_i	G1 LIMITACION CORRIENTE EN LINEA	DETECT	S	01GEX_LIM_I_ROT	2		S		Device: OTHER EXCITACIÓN Bit 11
306	%M2556	li_gex_lim_ue	G1 LIMITACION SUB EXCITACION	DETECT	S	01GEX_LIM_UE	2		S		Device: OTHER EXCITACIÓN Bit 12
307	%M2557	li_gex_pss	G1 POWER SYS STAB EN PROGRESO	DETECT	S	01GEX_PSS	2		S		Device: OTHER EXCITACIÓN Bit 13
308	%M2558	li_gex_exc	G1 PRE-EXCITACION	CERRADO	S	01GEX_EXC	2		S		Device: OTHER EXCITACIÓN Bit 14
309	%M2559	li_gex_41_exc	G1 INTERRUPTOR DE CAMPO EXCIT	CERRADO	S	01GEX_41_EXC	2		S		Device: OTHER EXCITACIÓN Bit 15
310	%M2560	li_gex_52_gen	G1 INTERRUPTOR DE GRUPO	CERRADO	S	01GEX_52_GEN	2		S		Device: OTHER EXCITACIÓN Bit 16
311	%M2561	li_gex_exc_fa1	G1 CEBADO EXCITACION	FALLA	S	01GEX_EXC_FA1	11		S		Device: OTHER EXCITACIÓN Bit 17
312	%M2562	li_gex_exc_fa2	G1 ALIMENTACION PUENTES	FALLA	S	01GEX_EXC_FA2	11		S		Device: OTHER EXCITACIÓN Bit 18
313	%M2563	li_gex_p1_p2_fa	G1 G1 PUENTE 1 O 2	FALLA	S	01GEX_P1_P2_FA	11		S		Device: OTHER EXCITACIÓN Bit 19



314	%M2564	li_gex_mcr_avr_ok	G1 EXCITACIÓN MCR O AVR	FALLA	S	01GEX_MCR_AVR_OK	11	S	Device: OTHER EXCITACIÓN Bit 20
315	%M2565	li_gex_avr_ok	G1 FALLA MAYOR EXCITACIÓN	FALLA	S	01GEX_AVR_OK	11	S	Device: OTHER EXCITACIÓN Bit 21
316	%M2566	li_gex_tr_exc	G1 TRAF0 EXCITACIÓN TEMP ALTA	ALARMA	S	01GEX_TR_EXC	11	S	Device: OTHER EXCITACIÓN Bit 22
317	%M2567	li_gex_tr_ol	G1 TRAF0 EXCITACIÓN DE SOBRECARGA	FALLA	S	01GEX_TR_OL	11	S	Device: OTHER EXCITACIÓN Bit 23
318	%M2568	li_gex_aux_fa	G1 EXCITACIÓN SERVICIOS AUXILIARES	FALLA	S	01GEX_AUX_FA	11	S	Device: OTHER EXCITACIÓN Bit 24
319	%M2569	li_gex_avr_alav_nlv1	G1 ALARMA AVR NIVEL 1	ALARMA	S	01GEX_AVR_ALAR_NIV1	11	S	Device: OTHER EXCITACIÓN Bit 25
320	%M2570						1		Device: OTHER EXCITACIÓN Bit 26
321	%M2571						1		Device: OTHER EXCITACIÓN Bit 27
322	%M2572	li_gex_reitera_falla	G1 REITERADOR DE FALLA	DETECT	S	01GEX_REITERA_FALLA	2	S	Device: OTHER EXCITACIÓN Bit 28
323	%M2573	li_gex_canal_loc	G1 CANAL LOCAL ACTIVO	DETECT	S	01GEX_CANAL_LOC	2	S	Device: OTHER EXCITACIÓN Bit 29
324	%M2574						1		Device: OTHER EXCITACIÓN Bit 30
325	%M2575						1		Device: OTHER EXCITACIÓN Bit 31
326	%M2576						1		Device: OTHER EXCITACIÓN Bit 32
327	%M2577	li_gex_proces_alarm1	G1 PROCESO DE ALARMA 1	ALARMA	S	01GEX_PROCES_ALARM1	11	S	Device: OTHER EXCITACIÓN Bit 33
328	%M2578	li_gex_proces_alarm2	G1 PROCESO DE ALARMA 2	ALARMA	S	01GEX_PROCES_ALARM2	11	S	Device: OTHER EXCITACIÓN Bit 34
329	%M2579	li_gex_proces_alarm3	G1 PROCESO DE ALARMA 3	ALARMA	S	01GEX_PROCES_ALARM3	11	S	Device: OTHER EXCITACIÓN Bit 35
330	%M2580	li_gex_proces_alarm4	G1 PROCESO DE ALARMA 4	ALARMA	S	01GEX_PROCES_ALARM4	11	S	Device: OTHER EXCITACIÓN Bit 36
331	%M2581	li_gex_proces_alarm5	G1 PROCESO DE ALARMA 5	ALARMA	S	01GEX_PROCES_ALARM5	11	S	Device: OTHER EXCITACIÓN Bit 37

III. OBSERVACIONES & COMENTARIOS

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IV. APROBACIONES

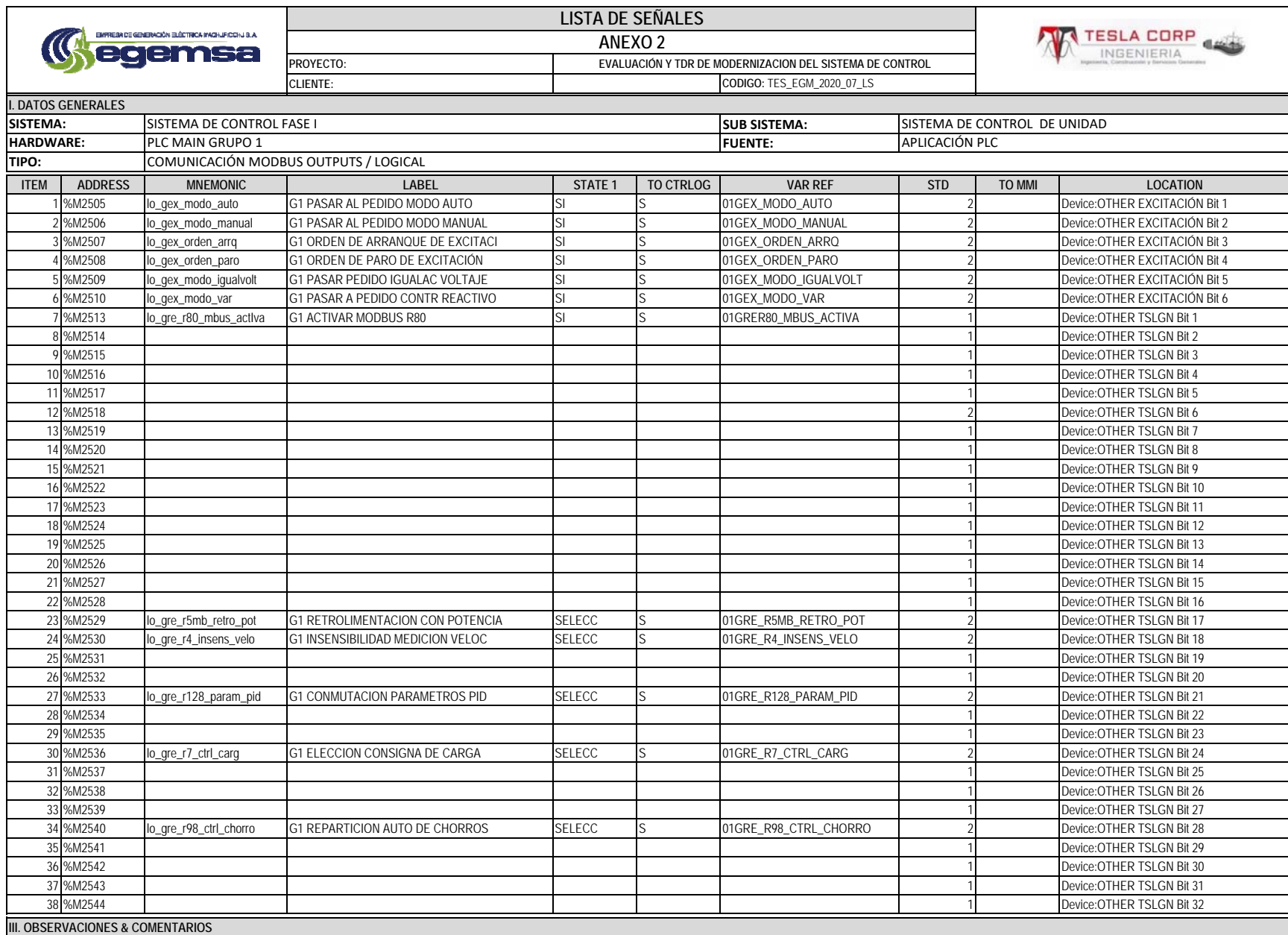
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		LISTA DE SEÑALES																	
		ANEXO 2																	
		PROYECTO:		EVALUACIÓN Y TDR DE MODERNIZACION DEL SISTEMA DE CONTROL															
		CLIENTE:		EGEMSA					CODIGO:		TES_EGM_2020_07_LS								
I. DATOS GENERALES																			
SISTEMA:		SISTEMA DE CONTROL FASE I								SUB SISTEMA:						SISTEMA DE CONTROL DE UNIDAD			
HARDWARE:		PLC MAIN GRUPO 1								FUENTE:						APLICACIÓN PLC			
TIPO:		COMUNICACION MODBUS INPUTS / ANALOG																	
ITEM	ADDRESS	MNEMONIC	LABEL	UNIT	TO CTRLOG	VAR REF	V MINI	V MAX	PLC MINI	PLC MAX	ACQ. RATE(S)	TO 8000	TO MMI	TO S8000-E	LOCATION				
1	%R1650	di_gta_kv_rn	G1 VOLTAJE FASE NEUTRO RN	KV	M	01GTA_KV_RN	0	20.00	0	2000	5		M		Device:PECA_EVA MEDICION				
2	%R1651	di_gta_kv_sn	G1 VOLTAJE FASE NEUTRO SN	KV	M	01GTA_KV_SN	0	20.00	0	2000	5		M		Device:PECA_EVA MEDICION				
3	%R1652	di_gta_kv_tn	G1 VOLTAJE FASE NEUTRO TN	KV	M	01GTA_KV_TN	0	20.00	0	2000	5		M		Device:PECA_EVA MEDICION				
4	%R1653	di_gta_kv_rs	G1 VOLTAJE FASE A FASE RS	KV	M	01GTA_KV_RS	0	20.00	0	2000	5		M		Device:PECA_EVA MEDICION				
5	%R1654	di_gta_kv_st	G1 VOLTAJE FASE A FASE ST	KV	M	01GTA_KV_ST	0	20.00	0	2000	5		M		Device:PECA_EVA MEDICION				
6	%R1655	di_gta_kv_tr	G1 VOLTAJE FASE A FASE TR	KV	M	01GTA_KV_TR	0	20.00	0	2000	5		M		Device:PECA_EVA MEDICION				
7	%R1656	di_gta_amp_r	G1 CORRIENTE EN FASE R	A	M	01GTA_AMP_R	0	2000.00	0	2000	5		M		Device:PECA_EVA MEDICION				
8	%R1657	di_gta_amp_s	G1 CORRIENTE EN FASE S	A	M	01GTA_AMP_S	0	2000.00	0	2000	5		M		Device:PECA_EVA MEDICION				
9	%R1658	di_gta_amp_t	G1 CORRIENTE EN FASE T	A	M	01GTA_AMP_T	0	2000.00	0	2000	5		M		Device:PECA_EVA MEDICION				
10	%R1659	di_gta_mw	G1 POTENCIA ACTIVA	MW	M	01GTA_MW	0	40.00	0	4000	2		M	BM	Device:PECA_EVA MEDICION				
11	%R1660	di_gta_mvar	G1 POTENCIA REACTIVA	MVAR	M	01GTA_MVAR	-20.00	20.00	-2000	2000	2		M		Device:PECA_EVA MEDICION				
12	%R1661	di_gta_cos_fi	G1 FACTOR DE POTENCIA COS_FI		M	01GTA_COS_FI	0	1.00	0	100	5		M		Device:PECA_EVA MEDICION				
13	%R1662	di_gta_hz	G1 FRECUENCIA HZ	HZ	M	01GTA_HZ	0	100.00	0	1000	5		M		Device:PECA_EVA MEDICION				
14	%R1673	di_gta_hwh_e_fue	G1 ENERGIA ACTIVA ENVIADA FUE		M	01GTA_HWH_E_FUE	-32768	32767	-32768	32767	30		M		Device:OTHER CONT_G1 Word 1				
15	%R1674	di_gta_kwh_e_deb	G1 ENERGIA ACTIVA ENVIADA DEB		M	01GTA_KWH_E_DEB	-32768	32767	-32768	32767	30		M		Device:OTHER CONT_G1 Word 2				
16	%R1675	di_gta_kwh_r_fue	G1 ENERGIA ACTIVA RECIBIDA FUE		M	01GTA_KWH_R_FUE	-32768	32767	-32768	32767	30		M		Device:OTHER CONT_G1 Word 3				
17	%R1676	di_gta_kwh_r_deb	G1 ENERGIA ACTIVA RECIBIDA DEB		M	01GTA_KWH_R_DEB	-32768	32767	-32768	32767	30		M		Device:OTHER CONT_G1 Word 4				
18	%R1677	di_gta_kwh_tot_deb	NO USADA						0	0					Device:OTHER CONT_G1 Word 5				
19	%R1678	di_gta_kwh_tot_fue	NO USADA						0	0					Device:OTHER CONT_G1 Word 6				
20	%R1679	di_gta_kwh_net_deb	NO USADA						0	0					Device:OTHER CONT_G1 Word 7				
21	%R1680	di_gta_kwh_net_fue	NO USADA						0	0					Device:OTHER CONT_G1 Word 8				
22	%R1681	di_gta_kvarh_e_fue	G1 ENERGIA REACTIVA ENV FUE		M	01GTA_KVARH_E_FUE	-32768	32767	-32768	32767	30		M		Device:OTHER CONT_G1 Word 9				
23	%R1682	di_gta_kvarh_e_deb	G1 ENERGIA REACTIVA ENV DEB		M	01GTA_KVARH_E_DEB	-32768	32767	-32768	32767	30		M		Device:OTHER CONT_G1 Word 10				
24	%R1683	di_gta_kvarh_r_fue	G1 ENERGIA REACTIVA REC FUE		M	01GTA_KVARH_R_FUE	-32768	32767	-32768	32767	30		M		Device:OTHER CONT_G1 Word 11				
25	%R1684	di_gta_kvarh_r_deb	G1 ENERGIA REACTIVA REC DEB		M	01GTA_KVARH_R_DEB	-32768	32767	-32768	32767	30		M		Device:OTHER CONT_G1 Word 12				
26	%R1853	di_gex_corr_rotor	G1 CORRIENTE DEL ROTOR DE GEN	A	M	01GEX_CORR_ROTOR	0	1000.00	0	10000	2		M		Device:OTHER EXCITACION Word 1				
27	%R1854	di_gex_spt_seno_fi	G1 SETPOINT DE SENO DE FI		M	01GEX_SPT_SENO_FI	-1.0000	1.0000	-10000	10000	5		M		Device:OTHER EXCITACION Word 2				
28	%R1855	di_gex_spt_tension	G1 SETPOINT DE TENSION	%	M	01GEX_SPT_TENSION	0.00	120	0	12000	10		M		Device:OTHER EXCITACION Word 3				
29	%R1856								0	0	5	M			Device:OTHER EXCITACION Word 4				
30	%R1898	di_gre_vg_hz_tslgn	G1 VELOCIDAD GRUPO TSLGN	HZ	M	01GRE_VG_HZ_TSLGN	0.00	300.0	0	30000	10		M		Device:OTHER TSLGN Word 1				
31	%R1899	di_gre_vr_hz_tslgn	G1 FRECUENCIA RED TSLGN	HZ	M	01GRE_VR_HZ_TSLGN	0.00	300.0	0	30000	5		M		Device:OTHER TSLGN Word 2				
32	%R1900	di_gre_co_spt_tslgn	G1 REALIM SPT APERTURA TSLGN	%	M	01GRE_CO_SPT_TSLGN	-100	100	-1000	1000	5		M		Device:OTHER TSLGN Word 3				
33	%R1901	di_gre_cw_mw_tslgn	G1 REALIM SPT POTENCIA TSLGN	MW	M	01GRE_CW_MW_TSLGN	-655.0	655.0	-16375	16375	2		M		Device:OTHER TSLGN Word 4				
34	%R1902	di_gre_cf_hz_tslgn	G1 REALIM SPT FRECUENCIA TSLGN	HZ	M	01GRE_CF_HZ_TSLGN	0.00	300.0	0	30000	5		M		Device:OTHER TSLGN Word 5				
35	%R1903	di_gre_lo_spt_tslgn	G1 REALIM SPT LIMITADOR AP TSLGN	%	M	01GRE_LO_SPT_TSLGN	0.00	100.00	0	1000	2		M		Device:OTHER TSLGN Word 6				
36	%R1904	di_gre_w_tslgn	G1 POTENCIA GRUPO TSLGN	MW	M	01GRE_W_TSLGN	-655.0	655.0	-16375	16375	2		M		Device:OTHER TSLGN Word 7				
37	%R1905	di_gre_kd_tslgn	G1 GAN DIFERENCIAL TSLGN	%	M	01GRE_KD_TSLGN	0	100.0	0	10000	2		M		Device:OTHER TSLGN Word 8				
38	%R1906	di_gre_kp_tslgn	G1 GAN PROPORCIONAL TSLGN	%	M	01GRE_KP_TSLGN	0	100.0	0	10000	5		M		Device:OTHER TSLGN Word 9				
39	%R1907	di_gre_td_tslgn	G1 TIEMPO ACC DERIVACION TSLGN	S	M	01GRE_TD_TSLGN	0	100.0	0	10000	10		M		Device:OTHER TSLGN Word 10				
40	%R1908	di_gre_ti_tslgn	G1 TIEMPO ACC INTEGRAL TSLGN	S	M	01GRE_TI_TSLGN	0	100	0	10000	10		M		Device:OTHER TSLGN Word 11				
41	%R1909	di_gre_bp_esta_tslgn	G1 ESTATISMO DEL GRUPO TSLGN		M	01GRE_BP_ESTA_TSLGN	0	10	0	100	10		M		Device:OTHER TSLGN Word 12				
42	%R1910	di_gre_etp_tslgn	G1 ETAPA GOBERNADOR TSLGN		M	01GRE_ETP_TSLGN	1	15	1	15	10		M		Device:OTHER TSLGN Word 13				
43	%R1911	di_gre_ch_tslgn	G1 CAIDA TSLGN	M	M	01GRE_CH_TSLGN	-1600	1600	-32000	32000	10		M		Device:OTHER TSLGN Word 14				
44	%R1912	di_gre_am_tslgn	G1 NIVEL ARRIBA TSLGN	M	M	01GRE_AM_TSLGN	-1600	1600	-32000	32000	10		M		Device:OTHER TSLGN Word 15				
45	%R1913								0	0					Device:OTHER TSLGN Word 16				
46	%R1914	di_gre_i1_pos_in1_tslgn	G1 POSICION DEL INYECTOR 1 TSLGN	%	M	01GRE_I1_POS_IN1_TSLGN	0.0	100.0	0	1000	10		M		Device:OTHER TSLGN Word 17				
47	%R1915	di_gre_i2_pos_in2_tslgn	G1 POSICION DEL INYECTOR 2 TSLGN	%	M	01GRE_I2_POS_IN2_TSLGN	0.0	100.0	0	1000	10		M		Device:OTHER TSLGN Word 18				



48	%R1916	di_gre_i3_pos_in3_tslgn	G1 POSICION DEL INYECTOR 3 TSLGN	%	M	01GRE_I3_POS_IN3_TSLGN	0.0	100.0	0	1000	10	M	Device:OTHER TSLGN Word 19
49	%R1917	di_gre_i4_pos_in4_tslgn	G1 POSICION DEL INYECTOR 4 TSLGN	%	M	01GRE_I4_POS_IN4_TSLGN	0.0	100.0	0	1000	10	M	Device:OTHER TSLGN Word 20
50	%R1918	di_gre_i5_pos_in5_tslgn	G1 POSICION DEL INYECTOR 5 TSLGN	%	M	01GRE_I5_POS_IN5_TSLGN	0.0	100.0	0	1000	10	M	Device:OTHER TSLGN Word 21
51	%R1919	di_gre_df_pos_def_tslgn	G1 POSICION DEL DEFLECTOR TSLGN	%	M	01GRE_DF_POS_DEF_TSLGN	0.0	100.0	0	1000	10	M	Device:OTHER TSLGN Word 22
52	%R1920				M				0	0			Device:OTHER TSLGN Word 23
53	%R1921								0	0			Device:OTHER TSLGN Word 24
54	%R1922								0	0			Device:OTHER TSLGN Word 25
55	%R1923								0	0			Device:OTHER TSLGN Word 26
56	%R1924								0	0			Device:OTHER TSLGN Word 27
57	%R1925								0	0			Device:OTHER TSLGN Word 28
58	%R1926								0	0			Device:OTHER TSLGN Word 29
59	%R1927								0	0			Device:OTHER TSLGN Word 30
60	%R1928								0	0			Device:OTHER TSLGN Word 31
61	%R1929								0	0			Device:OTHER TSLGN Word 32
62	%R1930								0	0			Device:OTHER TSLGN Word 33
63	%R1931								0	0			Device:OTHER TSLGN Word 34
64	%R1932								0	0			Device:OTHER TSLGN Word 35
65	%R1933								0	0			Device:OTHER TSLGN Word 36
66	%R1934								0	0			Device:OTHER TSLGN Word 37
67	%R1935								0	0			Device:OTHER TSLGN Word 38
68	%R1936								0	0			Device:OTHER TSLGN Word 39
69	%R1937								0	0			Device:OTHER TSLGN Word 40
70	%R1938	di_gre_ge_cau_tslgn	G1 CAUDAL POR LATURBINA TSLGN	M3/S	M	01GRE_GE_CAU_TSLGN	0.00	10.8	0	100	5	M	Device:OTHER TSLGN Word 41
71	%R1939								0	0			Device:OTHER TSLGN Word 42
72	%R1940								0	0			Device:OTHER TSLGN Word 43
73	%R1941								0	0			Device:OTHER TSLGN Word 44
74	%R1942								0	0			Device:OTHER TSLGN Word 45
75	%R1943								0	0			Device:OTHER TSLGN Word 46
76	%R1944								0	0			Device:OTHER TSLGN Word 47
77	%R1945								0	0			Device:OTHER TSLGN Word 48
78	%R1946								0	0			Device:OTHER TSLGN Word 49
79	%R1947								0	0			Device:OTHER TSLGN Word 50
80	%R1948								0	0			Device:OTHER TSLGN Word 51
81	%R1949								0	0			Device:OTHER TSLGN Word 52
82	%R1950								0	0			Device:OTHER TSLGN Word 53
83	%R1951								0	0			Device:OTHER TSLGN Word 54
84	%R1952								0	0			Device:OTHER TSLGN Word 55
85	%R1953								0	0			Device:OTHER TSLGN Word 56
86	%R1954								0	0			Device:OTHER TSLGN Word 57
87	%R1955								0	0			Device:OTHER TSLGN Word 58
88	%R1956								0	0			Device:OTHER TSLGN Word 59
89	%R2098	di_gre_vg_hz_tslgs	G1 VELOCIDAD GRUPO TSLGS	HZ	M	01GRE_VG_HZ_TSLGS	0	300.0	0	30000	5	M	Device:OTHER TSLGS Word 1
90	%R2099	di_gre_vr_hz_tslgs	G1 FRECUENCIA RED TSLGS	HZ	M	01GRE_VR_HZ_TSLGS	0	300.0	0	30000	5	M	Device:OTHER TSLGS Word 2
91	%R2100	di_gre_co_spt_tslgs	G1 REALIM SPT APERTURA TSLGS	%	M	01GRE_CO_SPT_TSLGS	-100	100	-1000	1000	5	M	Device:OTHER TSLGS Word 3
92	%R2101	di_gre_cw_mw_tslgs	G1 REALIM SPT POTENCIA TSLGS	MW	M	01GRE_CW_MW_TSLGS	-655.0	655.0	-16375	16375	5	M	Device:OTHER TSLGS Word 4
93	%R2102	di_gre_cf_hz_tslgs	G1 REALIM SPT FRECUENCIA TSLGS	HZ	M	01GRE_CF_HZ_TSLGS	0	300.0	0	30000	5	M	Device:OTHER TSLGS Word 5
94	%R2103	di_gre_lo_spt_tslgs	G1 REALIM SPT LIMITADOR AP TSLGS	%	M	01GRE_LO_SPT_TSLGS	0	100.00	0	1000	2	M	Device:OTHER TSLGS Word 6
95	%R2104	di_gre_w_tslgs	G1 POTENCIA GRUPO TSLGS	MW	M	01GRE_W_TSLGS	-655.0	655.0	-16375	16375	5	M	Device:OTHER TSLGS Word 7
96	%R2105	di_gre_kd_tslgs	G1 GAN DIFERENCIAL TSLGS	%	M	01GRE_KD_TSLGS	0	100.0	0	10000	5	M	Device:OTHER TSLGS Word 8
97	%R2106	di_gre_kp_tslgs	G1 GAN PROPORCIONAL TSLGS	%	M	01GRE_KP_TSLGS	0	100.0	0	10000	10	M	Device:OTHER TSLGS Word 9
98	%R2107	di_gre_td_tslgs	G1 TIEMPO ACC DERIVACION TSLGS	S	M	01GRE_TD_TSLGS	0	100.0	0	10000	10	M	Device:OTHER TSLGS Word 10
99	%R2108	di_gre_ti_tslgs	G1 TIEMPO ACC INTEGRAL TSLGS	S	M	01GRE_TI_TSLGS	0	100.0	0	10000	10	M	Device:OTHER TSLGS Word 11
100	%R2109	di_gre_bp_esta_tslgs	G1 ESTATISMO DEL GRUPO TSLGS		M	01GRE_BP_ESTA_TSLGS	0	10	0	100	10	M	Device:OTHER TSLGS Word 12
101	%R2110	di_gre_etp_tslgs	G1 ETAPA GOBERNADOR TSLGS		M	01GRE_ETP_TSLGS	1	15	1	15	10	M	Device:OTHER TSLGS Word 13
102	%R2111	di_gre_ch_tslgs	G1 CAIDA TSLGS	M	M	01GRE_CH_TSLGS	-1600	1600	-32000	32000	10	M	Device:OTHER TSLGS Word 14
103	%R2112	di_gre_am_tslgs	G1 NIVEL ARRIBA TSLGS	M	M	01GRE_AM_TSLGS	-1600	1600	-32000	32000	10	M	Device:OTHER TSLGS Word 15
104	%R2113								0	0			Device:OTHER TSLGS Word 16

105	%R2114	di_gre_i1_pos_in1_tslgs	G1 POSICION DEL INYECTOR 1 TSLGS	%	M	01GRE_I1_POS_IN1_TSLGS	0	100.00	0	1000	10	M	Device:OTHER TSLGS Word 17
106	%R2115	di_gre_i2_pos_in2_tslgs	G1 POSICION DEL INYECTOR 2 TSLGS	%	M	01GRE_I2_POS_IN2_TSLGS	0	100.00	0	1000	10	M	Device:OTHER TSLGS Word 18
107	%R2116	di_gre_i3_pos_in3_tslgs	G1 POSICION DEL INYECTOR 3 TSLGS	%	M	01GRE_I3_POS_IN3_TSLGS	0	100.00	0	1000	10	M	Device:OTHER TSLGS Word 19
108	%R2117	di_gre_i4_pos_in4_tslgs	G1 POSICION DEL INYECTOR 4 TSLGS	%	M	01GRE_I4_POS_IN4_TSLGS	0	100.00	0	1000	10	M	Device:OTHER TSLGS Word 20
109	%R2118	di_gre_i5_pos_in5_tslgs	G1 POSICION DEL INYECTOR 5 TSLGS	%	M	01GRE_I5_POS_IN5_TSLGS	0	100.00	0	1000	10	M	Device:OTHER TSLGS Word 21
110	%R2119	di_gre_df_pos_def_tslgs	G1 POSICION DEL DEFLECTOR TSLGS	%	M	01GRE_DF_POS_DEF_TSLGS	0	100.00	0	1000	10	M	Device:OTHER TSLGS Word 22
111	%R2120								0	0			Device:OTHER TSLGS Word 23
112	%R2121								0	0			Device:OTHER TSLGS Word 24
113	%R2122								0	0			Device:OTHER TSLGS Word 25
114	%R2123								0	0			Device:OTHER TSLGS Word 26
115	%R2124								0	0			Device:OTHER TSLGS Word 27
116	%R2125								0	0			Device:OTHER TSLGS Word 28
117	%R2126								0	0			Device:OTHER TSLGS Word 29
118	%R2127								0	0			Device:OTHER TSLGS Word 30
119	%R2128								0	0			Device:OTHER TSLGS Word 31
120	%R2129								0	0			Device:OTHER TSLGS Word 32
121	%R2130								0	0			Device:OTHER TSLGS Word 33
122	%R2131								0	0			Device:OTHER TSLGS Word 34
123	%R2132								0	0			Device:OTHER TSLGS Word 35
124	%R2133								0	0			Device:OTHER TSLGS Word 36
125	%R2134								0	0			Device:OTHER TSLGS Word 37
126	%R2135								0	0			Device:OTHER TSLGS Word 38
127	%R2136								0	0			Device:OTHER TSLGS Word 39
128	%R2137								0	0			Device:OTHER TSLGS Word 40
129	%R2138	di_gre_qe_cau_tslgs	G1 CAUDAL POR LATURBINA TSLGS	M3/S	M	01GRE_QE_CAU_TSLGS	0	10.8	0	100	5	M	Device:OTHER TSLGS Word 41
130	%R2139								0	0			Device:OTHER TSLGS Word 42
131	%R2140								0	0			Device:OTHER TSLGS Word 43
132	%R2141								0	0			Device:OTHER TSLGS Word 44
133	%R2142								0	0			Device:OTHER TSLGS Word 45
134	%R2143								0	0			Device:OTHER TSLGS Word 46
135	%R2144								0	0			Device:OTHER TSLGS Word 47
136	%R2145								0	0			Device:OTHER TSLGS Word 48
137	%R2146								0	0			Device:OTHER TSLGS Word 49
138	%R2147								0	0			Device:OTHER TSLGS Word 50
139	%R2148								0	0			Device:OTHER TSLGS Word 51
140	%R2149								0	0			Device:OTHER TSLGS Word 52
141	%R2150								0	0			Device:OTHER TSLGS Word 53
142	%R2151								0	0			Device:OTHER TSLGS Word 54
143	%R2152								0	0			Device:OTHER TSLGS Word 55
144	%R2153								0	0			Device:OTHER TSLGS Word 56
145	%R2154								0	0			Device:OTHER TSLGS Word 57
146	%R2155								0	0			Device:OTHER TSLGS Word 58
147	%R2156								0	0			Device:OTHER TSLGS Word 59
148	%R2611	di_gal_03mr_t_bob_u	G1 TEMP ESTATOR GEN BOB U	DEG-C	M	01GAL_03MR_T_BOB_U	0	150.00	0	15000	10	M	Device:CHESSELL RTD-TEMP Word 1
149	%R2612	di_gal_09mr_t_bob_v	G1 TEMP ESTATOR GEN BOB V	DEG-C	M	01GAL_09MR_T_BOB_V	0	150.00	0	15000	10	M	Device:CHESSELL RTD-TEMP Word 2
150	%R2613	di_gal_06mr_t_bob_w	G1 TEMP ESTATOR GEN BOB W	DEG-C	M	01GAL_06MR_T_BOB_W	0	150.00	0	15000	10	M	Device:CHESSELL RTD-TEMP Word 3
151	%R2614	di_gtb_23mr_t_met_empu	G1 TEMP METAL ACEITE COJ EMPUJE	DEG-C	M	01GTB_23MR_T_MET_EMPU	0	100.00	0	10000	10	M	Device:CHESSELL RTD-TEMP Word 4
152	%R2615	di_gtb_25mr_t_ac_empu	G1 TEMP ACEITE COJ EMPUJE	DEG-C	M	01GTB_25MR_T_AC_EMPU	0	80.00	0	8000	10	M	Device:CHESSELL RTD-TEMP Word 5
153	%R2616	di_gtb_24mr_t_met_guia	G1 TEMP METAL COJ GUIA GEN	DEG-C	M	01GTB_24MR_T_MET_GUIA	0	100.00	0	1000	10	M	Device:CHESSELL RTD-TEMP Word 6
154	%R2617	di_gal_13mr_air_fri_gen	G1 TEMP AIR FRIO GEN	DEG-C	M	01GAL_13MR_AIR_FRI_GEN	0	60.00	0	6000	10	M	Device:CHESSELL RTD-TEMP Word 7
155	%R2618	di_gal_14mr_air_cal_gen	G1 TEMP AIR CALIENTE GEN	DEG-C	M	01GAL_14MR_AIR_CAL_GEN	0	80.00	0	8000	10	M	Device:CHESSELL RTD-TEMP Word 8
156	%R2619	di_gal_15mr_t_ent_ag_re	G1 TEMP ENTRADA AGUA REF GEN	DEG-C	M	01GAL_15MR_T_ENT_AG_RE	0	60.00	0	6000	10	M	Device:CHESSELL RTD-TEMP Word 9
157	%R2620	di_gal_16mr_t_sal_ag_re	G1 TEMP SALIDA AGUA REF GEN	DEG-C	M	01GAL_16MR_T_SAL_AG_RE	0	80.00	0	8000	10	M	Device:CHESSELL RTD-TEMP Word 10
158	%R2621	di_gal_10mr_t_magnet_1	G1 TEMP CIRCUITO MAGNET GEN	DEG-C	M	01GAL_10MR_T_MAGNET_1	0	150.00	0	15000	10	M	Device:CHESSELL RTD-TEMP Word 11
159	%R2622	di_gal_11mr_t_magnet_2	G1 TEMP CIRCUITO MAGNET GEN	DEG-C	M	01GAL_11MR_T_MAGNET_2	0	150.00	0	15000	10	M	Device:CHESSELL RTD-TEMP Word 12
160	%R2623	di_gal_12mr_t_magnet_3	G1 TEMP CIRCUITO MAGNET GEN	DEG-C	M	01GAL_12MR_T_MAGNET_3	0	150.00	0	15000	10	M	Device:CHESSELL RTD-TEMP Word 13
161	%R2624	di_gtb_38mr_t_ag_cal_c	G1 TEMP AGUA CALIENTE COJ GEN	DEG-C	M	01GTB_38MR_T_AG_CAL_C	0	60.00	0	6000	10	M	Device:CHESSELL RTD-TEMP Word 14

162	%R2625	di_gtb_39mr_t_ag_frl_c	G1 TEMP AGUA FRIA COJ GEN	DEG-C	M	01GTB_39MR_T_AG_FRL_C	0	40.00	0	4000	10		M		Device:CHESSELL RTD-TEMP Word 15
163	%R2626	di_gtu_cs_t_met_c_turb	G1 TEMP METAL COJ GUIA TURB	DEG-C	M	01GTU_CS_T_MET_C_TURB	0	90.00	0	9000	10		M		Device:CHESSELL RTD-TEMP Word 16
164	%R2627	di_gtu_cu_ac_cal_sal_t	G1 TEMP ACEITE CALIENTE SALIDA	DEG-C	M	01GTU_CU_AC_CAL_SAL_T	0	80.00	0	8000	10		M		Device:CHESSELL RTD-TEMP Word 17
165	%R2628	di_gtu_cv_ag_ent_enf_t	G1 TEMP AGUA FRIA COJ TURB	DEG-C	M	01GTU_CV_AG_ENT_ENF_T	0	40.00	0	4000	10		M		Device:CHESSELL RTD-TEMP Word 18
166	%R2629	di_gtu_cw_g_sal_enf_t	G1 TEMP AGUA CALIENTE COJ TURB	DEG-C	M	01GTU_CW_G_SAL_ENF_T	0	60.00	0	60000	10		M		Device:CHESSELL RTD-TEMP Word 19
167	%R2630	di_gal_001lr_aceite_t	G1 TEMP ACEITE TRAF0 PRINCIPAL	DEG-C	M	01GAL_001TR_ACEITE_T	0	150.00	0	15000	10		M		Device:CHESSELL RTD-TEMP Word 20
168	%R2631	di_gal_001lr_bob_t	G1 TEMP BOBINA TRAF0 PRINCIPAL	DEG-C	M	01GAL_001TR_BOB_T	0	150.00	0	15000	10		M		Device:CHESSELL RTD-TEMP Word 21
169	%R2632	di_gex001tr_bob_t_u	G1 TEMP TRAF0 EXCIT BOBINA U	DEG-C	M	01GEX001TR_BOB_T_U	0	150.00	0	15000	10		M		Device:CHESSELL RTD-TEMP Word 22
170	%R2633	di_gex001tr_bob_t_v	G1 TEMP TRAF0 EXCIT BOBINA V	DEG-C	M	01GEX001TR_BOB_T_V	0	150.00	0	15000	10		M		Device:CHESSELL RTD-TEMP Word 23
171	%R2634	di_gex001tr_bob_t_w	G1 TEMP TRAF0 EXCIT BOBINA W	DEG-C	M	01GEX001TR_BOB_T_W	0	150.00	0	15000	10		M		Device:CHESSELL RTD-TEMP Word 24
172	%R2635								0	0	10				Device:CHESSELL RTD-TEMP Word 25
173	%R2636								0	0	10				Device:CHESSELL RTD-TEMP Word 26
174	%R2637								0	0	10				Device:CHESSELL RTD-TEMP Word 27
175	%R2638								0	0	10				Device:CHESSELL RTD-TEMP Word 28
176	%R2639								0	0	10				Device:CHESSELL RTD-TEMP Word 29
177	%R2640								0	0	10				Device:CHESSELL RTD-TEMP Word 30
178	%R2641								0	0	10				Device:CHESSELL RTD-TEMP Word 31
179	%R2642								0	0	10				Device:CHESSELL RTD-TEMP Word 32



IV. APROBACIONES

		LISTA DE SEÑALES																														
		ANEXO 2																														
		PROYECTO:					EVALUACIÓN Y TDR DE MODERNIZACION DEL SISTEMA DE CONTROL																									
		CLIENTE:					EGEMSA		CODIGO:		TES_EGM_2020_07_LS																					
I. DATOS GENERALES																																
SISTEMA:		SISTEMA DE CONTROL FASE I						SUB SISTEMA:		SISTEMA DE CONTROL DE UNIDAD																						
HARDWARE:		PLC MAIN GRUPO 1						FUENTE:		APLICACIÓN PLC																						
TIPO:		VARIABLES POR COMUNICACIÓN / MODBUS OUTPUTS / ANALOG																														
II. TABLA DE DATOS																																
ITEM	ADDRESS	MNEMONIC	LABEL	UNIT	TO CTRLOG	VAR REF	V MINI	V MAX	PLC MINI	PLC MAX	ACQ. RATE(S)	TO 8000	TO MMI	TO S8000-E	LOCATION																	
1	%R1846	do_gex_tvco1_c1	G1 SETPOINT SENO DE FI DEL GEN		M	01GEX_TVCO1_C1	-0.4	0.4	-4000	4000	5		M		Device:OTHER EXCITACION Word 1																	
2	%R1847	do_gex_tvco2_c2	G1 SETPOINT TENSION	V	M	01GEX_TVCO2_C2	0	110.00	0	11000	10		M		Device:OTHER EXCITACION Word 2																	
3	%R1848	do_gex_tvco3_c3	G1 SETPOINT POTENCIA REACTIVA	MV	M	01GEX_TVCO3_C3	-20	20	-2000	2000	10		M		Device:OTHER EXCITACION Word 3																	
4	%R1965	do_gre_tslgn_oe_o	G1 SETPOINT DE APER AGUJA TSLGN	%			0	100.0	0	1000	10				Device:OTHER TSLGN Word 1																	
5	%R1966	do_gre_tslgn_oe_w	G1 SETPOINT POTENCIA ACTIVA TSLGN	MW			-655	655	-16375	16375	10				Device:OTHER TSLGN Word 2																	
6	%R1967	do_gre_tslgn_clo	G1 SETPOINT LIMITE APERT AGUJA TSLGN	%			0	100.0	0	1000	10				Device:OTHER TSLGN Word 3																	
7	%R1968								0	0					Device:OTHER TSLGN Word 4																	
8	%R1969								0	0					Device:OTHER TSLGN Word 5																	
9	%R1970								0	0					Device:OTHER TSLGN Word 6																	
10	%R1971								0	0					Device:OTHER TSLGN Word 7																	
11	%R1972								0	0					Device:OTHER TSLGN Word 8																	
12	%R1973								0	0					Device:OTHER TSLGN Word 9																	
13	%R1974								0	0					Device:OTHER TSLGN Word 10																	
14	%R1975								0	0					Device:OTHER TSLGN Word 11																	
15	%R1976								0	0					Device:OTHER TSLGN Word 12																	
16	%R1977								0	0					Device:OTHER TSLGN Word 13																	
17	%R1978								0	0					Device:OTHER TSLGN Word 14																	
18	%R1979								0	0					Device:OTHER TSLGN Word 15																	
19	%R1980								0	0					Device:OTHER TSLGN Word 16																	
20	%R1981								0	0					Device:OTHER TSLGN Word 17																	
21	%R1982								0	0					Device:OTHER TSLGN Word 18																	
22	%R1983								0	0					Device:OTHER TSLGN Word 19																	
23	%R1984								0	0					Device:OTHER TSLGN Word 20																	
24	%R1985								0	0					Device:OTHER TSLGN Word 21																	
25	%R1986								0	0					Device:OTHER TSLGN Word 22																	
26	%R1987								0	0					Device:OTHER TSLGN Word 23																	
27	%R1988								0	0					Device:OTHER TSLGN Word 24																	
28	%R1989								0	0					Device:OTHER TSLGN Word 25																	
29	%R1990								0	0					Device:OTHER TSLGN Word 26																	
30	%R1991								0	0					Device:OTHER TSLGN Word 27																	
31	%R1992	do_gre_tslgn_lid	G1 SELECC DEL INYEC LIDER TSLGN				0	10	0	10	10				Device:OTHER TSLGN Word 28																	
32	%R2165	do_gre_tslgs_oe_o	G1 SETPOINT DE APER AGUJA TSLGS	%			0	100.00	0	1000	10				Device:OTHER TSLGS Word 1																	
33	%R2166	do_gre_tslgs_oe_w	G1 SETPOINT POTENCIA ACTIVA TSLGS	MW			-655	655	-16375	16375	10				Device:OTHER TSLGS Word 2																	
34	%R2167	do_gre_tslgs_clo	G1 SETPOINT LIMITE APERT AGUJA TSLGS	%			0	1000.00	0	1000	10				Device:OTHER TSLGS Word 3																	
35	%R2168								0	0					Device:OTHER TSLGS Word 4																	
36	%R2169								0	0					Device:OTHER TSLGS Word 5																	
37	%R2170								0	0					Device:OTHER TSLGS Word 6																	
38	%R2171								0	0					Device:OTHER TSLGS Word 7																	
39	%R2172								0	0					Device:OTHER TSLGS Word 8																	
40	%R2173								0	0					Device:OTHER TSLGS Word 9																	
41	%R2174								0	0					Device:OTHER TSLGS Word 10																	

42	%R2175							0	0					Device:OTHER TSLGS Word 11
43	%R2176							0	0					Device:OTHER TSLGS Word 12
44	%R2177							0	0					Device:OTHER TSLGS Word 13
45	%R2178							0	0					Device:OTHER TSLGS Word 14
46	%R2179							0	0					Device:OTHER TSLGS Word 15
47	%R2180							0	0					Device:OTHER TSLGS Word 16
48	%R2181							0	0					Device:OTHER TSLGS Word 17
49	%R2182							0	0					Device:OTHER TSLGS Word 18
50	%R2183							0	0					Device:OTHER TSLGS Word 19
51	%R2184							0	0					Device:OTHER TSLGS Word 20
52	%R2185							0	0					Device:OTHER TSLGS Word 21
53	%R2186							0	0					Device:OTHER TSLGS Word 22
54	%R2187							0	0					Device:OTHER TSLGS Word 23
55	%R2188							0	0					Device:OTHER TSLGS Word 24
56	%R2189							0	0					Device:OTHER TSLGS Word 25
57	%R2190							0	0					Device:OTHER TSLGS Word 26
58	%R2191							0	0					Device:OTHER TSLGS Word 27
59	%R2192	do_gre_tslg_lid	G1 SELECC DEL INYEC LIDER TSLGS					0	10	0	10	10		Device:OTHER TSLGS Word 28
III. OBSERVACIONES & COMENTARIOS														
IV. APROBACIONES														



LISTA DE VARIABLES

ANEXO 2

PROYECTO:

EVALUACIÓN Y TDR DE MODERNIZACIÓN DEL SISTEMA DE CONTROL

CLIENTE:

EGEMSA

CODIGO:

TES_EGM_2020_07_LS



I. DATOS GENERALES

SISTEMA:	SISTEMA DE CONTROL FASE I	SUB SISTEMA:	SISTEMA DE CONTROL DE UNIDAD
HARDWARE:	PLC MAIN GRUPO 1	FUENTE:	APLICACIÓN PLC
TIPO:	VARIABLES DEL PROCESO / LOGICAL		

ITEM	ADDRESS	MNEMONIC	LABEL	STATE 1	TO CTRLG	VAR REF	STD	TO MMI	LOCATION
1	%M475	IO_61lrt001jd_c_cerr	SI						
2	%M476	IO_61lrt001jd_o_ab	SI						
3	%M477	IO_61lrt001js_c_cerr	SI						
4	%M478	IO_61lrt001js_o_ab	SI						
5	%M2154	IO_gal30_33_frenos_lib	SI						
6	%M2084	IO_gre_ae_ctor_cerr	SI						
7	%M2087	IO_gre_af_ctor_cerr	SI						
8	%M2104	IO_gre_cz4_val_ab	SI						
9	%M2105	IO_gre_cz5_val_cerr	SI						
10	%M2255	IO_gta001jc_ctor_cerr	SI						
11	%M2265	IO_gta001js_13kv_ab	SI						
12	%M2266	IO_gta001js_13kv_cerr	SI						
13	%M2197	IO_gta001jxb_rel86e1	SI						
14	%M2258	IO_gta002jc_ctor_cerr	SI						
15	%M2198	IO_gta002xb_rel86e1	SI						
16	%M2199	IO_gta003xb_rel86r	SI						
17	%M3555	IO_gta005jc_cerr	SI						
18	%M2122	IO_gvg_ci_iv_cerr	SI						
19	%M2124	IO_gvg_ck_iv_ab	SI						
20	%M2121	IO_gvg_cm_se_inf_lib	SI						
21	%M2126	IO_gvg_cn_iv_igual_pres	SI						
22	%M2114	IO_gvg_cz1_val_ab	SI						
23	%M2115	IO_gvg_cz2_val_cerr	SI						
24	%T071	lc_61lrt_i_001jd_apr	G1 ABRIR INTPT 61LRT001JD IHM						
25	%T066	lc_61lrt_i_001jd_cie	G1 CERRAR INTPT 61LRT001JD IHM						
26	%T067	lc_61lrt_i_001js_apr	G1 ABRIR SECDR 61LRT001JD IHM						
27	%T068	lc_61lrt_i_001js_cie	G1 CERRAR SECDR 61LRT001JD IHM						
28	%M0129	lc_61lrt_k_001jd_apr	G1 ABRIR INTPT 61LRT001JD CTRLG						
29	%M0130	lc_61lrt_k_001jd_cie	G1 CERRAR INTPT 61LRT001JD CTRLG						
30	%M0131	lc_61lrt_k_001js_apr	G1 ABRIR SECDR 61LRT001JD CTRLG						
31	%M0132	lc_61lrt_k_001js_cie	G1 CERRAR SECDR 61LRT001JD CTRLG						
32	%T099	lc_gre_i_128_param_a	G1 ESTATISMO PARA RED AISLADA						
33	%T089	lc_gre_i_128_param_ri	G1 ESTATISMO PARA RED INTERCONEC						

34	%T090	lc_gre_i_98_mod_ch							
35	%T091	lc_gre_i_98_nomod_ch							
36	%T093	lc_gre_i_r5mod_retro_apr							
37	%T094	lc_gre_i_r5mod_retro_pot							
38	%M0137	lc_gre_k_128_param_a							
39	%M0138	lc_gre_i_128_param_ri							
40	%M0139	lc_gre_k_98_mod_ch							
41	%M0140	lc_gre_k_98_nomod_ch							
42	%M0141	lc_gre_k_r5mod_retro_apr							
43	%M0142	lc_gre_k_r5mod_retro_pot							
44	%M3759	lc_gta005pr19_mast_re							
45	%T069	lc_gta_i_001js_13kv_apr							
46	%T070	lc_gta_i_001js_13kv_cie							
47	%M3669	lc_gta_i_86p_res							
48	%T073	lc_gta_i_arrq_001po							
49	%T074	lc_gta_i_arrq_002po							
50	%T065	lc_gta_i_arrq_calef							
51	%T084	lc_gta_i_clear_ala							
52	%T081	lc_gta_i_esreg_valid1							
53	%T087	lc_gta_i_paro_001po							
54	%T086	lc_gta_i_paro_002po							
55	%T072	lc_gta_i_paro_calef							
56	%T098	lc_gta_i_paro_norm							
57	%T110	lc_gta_i_pceep_valid1							
58	%T095	lc_gta_i_rtens_valid1							
59	%T096	lc_gta_i_rvel_valid1							
60	%T075	lc_gta_i_sarq_450rpm							
61	%T076	lc_gta_i_sarq_acop							
62	%T077	lc_gta_i_sarq_psig							
63	%T078	lc_gta_i_sarq_un							
64	%T097	lc_gta_i_sarq_valid1							
65	%T082	lc_gta_i_sel_sinc_au							
66	%T083	lc_gta_i_sel_inc_ma							
67	%T079	lc_gta_i_sirena_apaga							
68	%T080	lc_gta_i_sirena_inhibe							
69	%T101	lc_gta_i_sparo_psig							
70	%T102	lc_gta_i_sparo_valid1							
71	%T103	lc_gta_i_srefri_valid1							
72	%T104	lc_gta_i_syc_450rpm							
73	%T105	lc_gta_i_syc_acop							
74	%T106	lc_gta_i_syc_paro							
75	%T108	lc_gta_i_syc_un							
76	%T109	lc_gta_i_syc_valid1							

77	%T100	lc_gta_i_sync_valid2							
78	%M0143	lc_gta_k_001js_13kv_apr							
79	%M0144	lc_gta_k_001js_13kv_cie							
80	%M0135	lc_gta_k_act103sn							
81	%M0147	lc_gta_k_arrq_450rpm							
82	%M0148	lc_gta_k_arrq_acop							
83	%M0149	lc_gta_k_arrq_un							
84	%M0136	lc_gta_k_inh103sn							
85	%M0134	lc_gta_k_paro_emerg							
86	%M0150	lc_gta_k_paro_norm							
87	%M4013	lv_01gta001js_invalid							
88	%M3658	lv_20lga001jd_estado							
89	%M3659	lv_20lga002jd_estado							
90	%M4079	lv_20lga003jd_estado							
91	%M3791	lv_20lga00xjd_estado							
92	%M3647	lv_20spr_pres_sair_serv							
93	%M3648	lv_20spr_pres_sair_sfa							
94	%M3649	lv_20spr_pres_tair_norm							
95	%M3999	lv_20sra_niv_pozos_alar							
96	%M4018	lv_20sra_sist_en_serv							
97	%M3641	lv_61lrt001jd_libre_k							
98	%M3657	lv_61lrt001js_libre							
99	%M3644	lv_61lrt001js_libre_k							
100	%M3660	lv_61lrt1jd86_94_apr							
101	%M3661	lv_61lrt1jd_a1							
102	%M3663	lv_61lrt1jd_a3							
103	%M3664	lv_61lrt1jd_c							
104	%M4081	lv_61lrt1jd_cap_fa							
105	%M3665	lv_61lrt1jd_fa_res							
106	%M3666	lv_61lrt1jd_fa_set							
107	%M3667	lv_61lrt1jd_prot							
108	%M3668	lv_61lrt1jd_x2_apr_s4							
109	%M3650	lv_61lrt1jd_x2_apr_s5							
110	%M3745	lv_61lrt1jd_x2_apr_s6							
111	%M3868	lv_61lrt1jd_x2_apr_s7							
112	%M3670	lv_61lrt1js_138kv_res							
113	%M3671	lv_61lrt1js_138kv_set							
114	%M3672	lv_61lrt1js_138kv_t							
115	%M3673	lv_61lrt1js_a							
116	%M3674	lv_61lrt1js_c							
117	%M3651	lv_61lrt_001jd_fa							
118	%M3652	lv_61lrt_001jd_invalid							
119	%M3653	lv_61lrt_001jd_libre							

120	%M3654	lv_61lrt_001jd_progres							
121	%M3655	lv_61lrt_001jd_x3_apr							
122	%M3656	lv_61lrt_001js_138kv_fa							
123	%M4007	lv_61lrt_001js_apr							
124	%M4008	lv_61lrt_001js_cie							
125	%M4014	lv_61lrt_001js_invalid							
126	%M4017	lv_61lrt_001js_libre							
127	%M4070	lv_61lrt_001js_progres							
128	%M3675	lv_gal3033_alarm_free							
129	%M3676	lv_gal3033_apf_intp							
130	%M4056	lv_gal3033_aplic_fren							
131	%M4080	lv_gal3033_au_fre_s1							
132	%M4004	lv_gal3033_fre_25_lib							
133	%M3677	lv_gal30_33_au_ap_fre							
134	%M3998	lv_gal30_33_au_lb_fre							
135	%M3678	lv_gal30_33_frenos_ap							
136	%M3679	lv_gal_fa_fluj_agua							
137	%M0450	lv_gex_aqr_on							
138	%M0451	lv_gex_avr_on							
139	%M3619	lv_gex_en_servi							
140	%M3634	lv_gex_int_invalid							
141	%M3635	lv_gex_int_progres							
142	%M3680	lv_gex_modbus_com_fa							
143	%M0454	lv_gex_mvar_adj							
144	%M0455	lv_gex_mvar_down							
145	%M3681	lv_gex_mvar_min							
146	%M0456	lv_gex_mvar_up							
147	%M3682	lv_gex_no_fa							
148	%M3684	lv_gre_ab_0_cajust							
149	%M3685	lv_gre_ab_100_cajust							
150	%M3686	lv_gre_ab_mod_ajust							
151	%M3687	lv_gre_ac_reg_deten							
152	%M3688	lv_gre_ac_reg_prep							
153	%M3689	lv_gre_ae_falla							
154	%M3690	lv_gre_af_falla							
155	%M3691	lv_gre_al_niv_ac_nmb							
156	%M3692	lv_gre_arrq_bomb_reg							
157	%M3693	lv_gre_bb_val							
158	%M3694	lv_gre_bb_val_apr_s1							
159	%M3695	lv_gre_bb_val_cie_s456							
160	%M3696	lv_gre_bb_val_falla							
161	%M3697	lv_gre_bb_val_res							
162	%M3698	lv_gre_bb_val_fset							

163	%M3699	lv_gre_bj_air_inyeok							
164	%M3954	lv_gre_bom_r_fa_niv							
165	%M3958	lv_gre_bom_s_fa_niv							
166	%M4083	lv_gre_bomae_desc1							
167	%M4084	lv_gre_bomaf_desc1							
168	%M3700	lv_gre_bomb_ac_en_serv							
169	%M3701	lv_gre_bomb_ae_r							
170	%M3702	lv_gre_bomb_ae_s							
171	%M3703	lv_gre_bomb_af_r							
172	%M3704	lv_gre_bomb_af_s							
173	%M4085	lv_gre_bomin_desc1							
174	%M3969	lv_gre_cz1_pos_ab							
175	%M3705	lv_gre_cz4_ab_mem							
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556	%M3957	lv_gtu_cb_estados							
557	%M4055	lv_gtu_cchorr_abr							
558	%M3959	lv_gtu_la_no_sobv							
559	%M3960	lv_gtu_niv_ac_norm							
560	%M4019	lv_gtu_pos_deflect_ab							
561	%M4059	lv_gvg_bc_iv_falla							
562	%M3962	lv_gvg_bc_val							
563	%M3963	lv_gvg_bc_val_apr_s1							
564	%M3964	lv_gvg_bc_val_cie_s456							
565	%M3965	lv_gvg_bc_val_falla							
566	%M3966	lv_gvg_bc_val_fres							
567	%M3967	lv_gvg_bc_val_fset							
568	%M3968	lv_gvg_bk_air_inyeok							
569	%M3938	lv_gvg_by_pas_cerr							
570	%M3970	lv_gvg_bypass_ab							
571	%M3971	lv_gvg_bypass_cerr							
572	%M3972	lv_gvg_ci_iv_falla							
573	%M3973	lv_gvg_cj_iv_falla							
574	%M4001	lv_gvg_ck_ab_fa							
575	%M3974	lv_gvg_ck_iv_ab_men							
576	%M3975	lv_gvg_ck_iv_falla							
577	%M3976	lv_gvg_ck_iv_res							
578	%M3977	lv_gvg_cl_se_sup_ap							
579	%M3978	lv_gvg_cm_se_fa_depres							
580	%M3979	lv_gvg_cn_iv_fa_pres							
581	%M3980	lv_gvg_cz1_ab_men							
582	%M3981	lv_gvg_cz1_ab_res							
583	%M3982	lv_gvg_cz1_ab_set							
584	%M3622	lv_gvg_fa_anil_est							
585	%M4002	lv_gvg_fa_equa_col							
586	%M3940	lv_gvg_iv_abriendo							
587	%M3984	lv_gvg_iv_desconoc							
588	%M4003	lv_gvg_iv_discord							
589	%M4005	lv_gvg_iv_pos_fa							
590	%M3985	lv_gvg_iv_pres_alto							
591	%M3986	lv_gvg_iv_pres_ba							
592	%M3961	lv_gvg_iv_pres_mallo							

593	%M3987	lv_gvg_iv_pres_norm							
594	%M4006	lv_gvg_mc_cienint_f							
595	%M3988	lv_gvg_mc_iv_cieint							
596	%M3989	lv_gvg_niv_ac_mb_86r							
597	%M3990	lv_gvg_va_cieint							
598	%M3944	lv_gvg_valv_iv_ab							
599	%M0469	lv_gvg_horn_urg_1							
600	%M0598	lv_gvg_horn_urg_1_1							
601	%M0599	lv_gvg_horn_urg_1_2							
602	%M0600	lv_gvg_horn_urg_1_3							
603	%M0601	lv_gvg_horn_urg_1_4							
604	%M0602	lv_gvg_horn_urg_1_5							
605	%M0603	lv_gvg_horn_urg_1_6							
606	%M0472	lv_gvg_horn_urg_2							
607	%M0604	lv_gvg_horn_urg_2_1							
608	%M0605	lv_gvg_horn_urg_2_2							
609	%M0606	lv_gvg_horn_urg_2_3							
610	%M0607	lv_gvg_horn_urg_2_4							
611	%M0608	lv_gvg_horn_urg_2_5							
612	%M0609	lv_gvg_horn_urg_2_6							
613	%M0610	lv_gvg_horn_urg_2_7							
614	%M0611	lv_gvg_horn_urg_2_8							
615	%M0463	lv_tslg_no_bus							
616	%M0596	lv_tslg_r120_posic_agu							
617	%M0597	lv_tslg_r124_carga_minima							
618	%M0473	lv_tslg_r128_pid_red_aisl							
619	%M0612	lv_tslg_r133_lim_aper_cero							
620	%M0613	lv_tslg_r224_carga_cien							
621	%M0614	lv_tslg_r233_lim_aper_cien							
622	%M0615	lv_tslg_r24_carga_cero							
623	%M0474	lv_tslg_r4_insen_veloc							
624	%M0593	lv_tslg_r5_ret_al_pot							
625	%M0594	lv_tslg_r7_cons_mbus							
626	%M0595	lv_tslg_r98_rep_chorros							
627	%M0470	lv_tslgn_activo							
628	%M0471	lv_tslgs_activo							

III. OBSERVACIONES & COMENTARIOS

IV. APROBACIONES



		LISTA DE VARIABLES								
		ANEXO 2								
		PROYECTO:		EVALUACION Y TDR DE MODERNIZACION DEL SISTEMA DE CONTROL						
CLIENTE:		EGEMSA		CODIGO: TES_EGM_2020_07_LS						
I. DATOS GENERALES										
SISTEMA:		SISTEMA DE CONTROL FASE I				SUB SISTEMA:		SISTEMA DE CONTROL DE UNIDAD		
HARDWARE:		PLC MAIN GRUPO 1				FUENTE:		APLICACIÓN PLC		
TIPO:		VARIABLES DOMINIO								
ITEM	ADDRESS	MNEMONIC	LABEL	STATE 1	TO CTRLLOG	VAR REF	STD	TO F8000	TO MMI	TO S8000-E
1	%R107	dd_alg_mask_md1_001					1			
2	%R108	dd_alg_mask_md1_002					1			
3	%R109	dd_alg_mask_md1_003					1			
4	%R110	dd_alg_mask_md1_004					1			
5	%R111	dd_alg_mask_md1_005					1			
6	%R112	dd_alg_mask_md1_006					1			
7	%R113	dd_alg_mask_md1_007					1			
8	%R114	dd_alg_mask_md1_008					1			
9	%R106	dd_alg_per_cyc					1			
10	%R105	dd_alg_raw_limit					1			
11	%R103	dd_alg_raw_max					1			
12	%R101	dd_alg_raw_min					1			
13	%AI0130	dd_ana_inp_max_001	MAXIMUM PHYSICAL VALUE (%AI0001)	F			1 F			F
14	%AI0146	dd_ana_inp_max_003	MAXIMUM PHYSICAL VALUE (%AI0003)	F			1 F			F
15	%AI0162	dd_ana_inp_max_005	MAXIMUM PHYSICAL VALUE (%AI0005)	F			1 F			F
16	%AI0170	dd_ana_inp_max_006	MAXIMUM PHYSICAL VALUE (%AI0006)	F			1 F			F
17	%AI0129	dd_ana_inp_min_001	MINIMUM PHYSICAL VALUE (%AI0001)	F			1 F			F
18	%AI0145	dd_ana_inp_min_003	MINIMUM PHYSICAL VALUE (%AI0003)	F			1 F			F
19	%AI0161	dd_ana_inp_min_005	MINIMUM PHYSICAL VALUE (%AI0005)	F			1 F			F
20	%AI0169	dd_ana_inp_min_006	MINIMUM PHYSICAL VALUE (%AI0006)	F			1 F			F
21	%R0014	dd_bcd_day_nbr	DAY OF WEEK IN BCD				1			
22	%R0012	dd_bcd_hour_day	HOUR (MSB) AND DAY (LSB) IN BCD				1			
23	%R0011	dd_bcd_month_year	MONTH (MSB) AND YEAR (LSB) IN BC				1			
24	%R0013	dd_bcd_sec_min	SECONDS (MSB) AND MINUTES (LSB)				1			
25	%AI985	dd_f80_state_word_subs	STATE WORD SENT ON F80				1			
26	%R0001	dd_faulty_modules_rack_0000					1			
27	%R0002	dd_faulty_modules_rack_0001					1			
28	%R0003	dd_faulty_modules_rack_0002					1			
29	%R0004	dd_faulty_modules_rack_0003					1			
30	%R0005	dd_faulty_modules_rack_0004					1			
31	%R0006	dd_faulty_modules_rack_0005					1			
32	%R0007	dd_faulty_modules_rack_0006					1			
33	%R0008	dd_faulty_modules_rack_0007					1			
34	%R1154	dd_mbus_addr_read_eva_01					1			
35	%R1169	dd_mbus_addr_read_slave_02					1			
36	%R1173	dd_mbus_answ_adr_slave_02					1			
37	%R0443	dd_mbus_channel_eu_01					1			
38	%R2742	dd_mbus_ches_inp_max_001	MAX. PHY. VAL CHES (G1 TEMP ESTAT				1			
39	%R2744	dd_mbus_ches_inp_max_002	MAX. PHY. VAL CHES (G1 TEMP ESTAT				1			
40	%R2746	dd_mbus_ches_inp_max_003	MAX. PHY. VAL CHES (G1 TEMP ESTAT				1			
41	%R2748	dd_mbus_ches_inp_max_004	MAX. PHY. VAL CHES (G1 TEMP METAL				1			
42	%R2750	dd_mbus_ches_inp_max_005	MAX. PHY. VAL CHES (G1 TEMP ACEITE				1			
43	%R2752	dd_mbus_ches_inp_max_006	MAX. PHY. VAL CHES (G1 TEMP METAL				1			
44	%R2754	dd_mbus_ches_inp_max_007	MAX. PHY. VAL CHES (G1 TEMP AIR F				1			
45	%R2756	dd_mbus_ches_inp_max_008	MAX. PHY. VAL CHES (G1 TEMP AIR C				1			
46	%R2758	dd_mbus_ches_inp_max_009	MAX. PHY. VAL CHES (G1 TEMP ENTRA				1			
47	%R2760	dd_mbus_ches_inp_max_010	MAX. PHY. VAL CHES (G1 TEMP SALID				1			
48	%R2762	dd_mbus_ches_inp_max_011	MAX. PHY. VAL CHES (G1 TEMP CIRCU				1			
49	%R2764	dd_mbus_ches_inp_max_012	MAX. PHY. VAL CHES (G1 TEMP CIRCU				1			
50	%R2766	dd_mbus_ches_inp_max_013	MAX. PHY. VAL CHES (G1 TEMP CIRCU				1			
51	%R2768	dd_mbus_ches_inp_max_014	MAX. PHY. VAL CHES (G1 TEMP AGUA				1			
52	%R2770	dd_mbus_ches_inp_max_015	MAX. PHY. VAL CHES (G1 TEMP AGUA				1			
53	%R2772	dd_mbus_ches_inp_max_016	MAX. PHY. VAL CHES (G1 TEMP METAL				1			
54	%R2774	dd_mbus_ches_inp_max_017	MAX. PHY. VAL CHES (G1 TEMP ACEITE				1			
55	%R2776	dd_mbus_ches_inp_max_018	MAX. PHY. VAL CHES (G1 TEMP AGUA				1			
56	%R2778	dd_mbus_ches_inp_max_019	MAX. PHY. VAL CHES (G1 TEMP AGUA				1			
57	%R2780	dd_mbus_ches_inp_max_020	MAX. PHY. VAL CHES (G1 TEMP ACEITE				1			
58	%R2782	dd_mbus_ches_inp_max_021	MAX. PHY. VAL CHES (G1 TEMP BOBIN				1			
59	%R2784	dd_mbus_ches_inp_max_022	MAX. PHY. VAL CHES (G1 TEMP TRAFO				1			
60	%R2786	dd_mbus_ches_inp_max_023	MAX. PHY. VAL CHES (G1 TEMP TRAFO				1			
61	%R2788	dd_mbus_ches_inp_max_024	MAX. PHY. VAL CHES (G1 TEMP TRAFO				1			
62	%R2790	dd_mbus_ches_inp_max_025	MAX. PHY. VAL CHES (G1 TEMP TRAFO				1			
63	%R2792	dd_mbus_ches_inp_max_026	MAX. PHY. VAL CHES (G1 TEMP TRAFO				1			
64	%R2794	dd_mbus_ches_inp_max_027	MAX. PHY. VAL CHES (G1 TEMP TRAFO				1			
65	%R1645	dd_mbus_coef1_p_eva_01					1			
66	%R1643	dd_mbus_coef1_eva_01					1			
67	%R1641	dd_mbus_coef_u_eva_02					1			
68	%R1624	dd_mbus_eu_ches					1			
69	%R1159	dd_mbus_eu_eva_01					1			
70	%R1174	dd_mbus_eu_slave_02					1			
71	%R1264	dd_mbus_eu_slave_08					1			
72	%R1279	dd_mbus_eu_slave_09					1			
73	%R1168	dd_mbus_function_slave_02					1			
74	%R1639	dd_mbus_mask_eva_1					1			
75	%R1640	dd_mbus_mask_eva_2					1			
76	%R2609	dd_mbus_nb_of_alarm_ches					1			
77	%R0764	dd_mbus_nb_of_eu					1			
78	%R1620	dd_mbus_nb_of_words_ches					1			
79	%R1155	dd_mbus_nb_of_words_eva_01					1			
80	%R1170	dd_mbus_nb_words_slave_02					1			
81	%R1625	dd_mbus_period_ches					1			
82	%R1160	dd_mbus_period_eva_01					1			
83	%R1175	dd_mbus_period_slave_02					1			
84	%R1265	dd_mbus_period_slave_08					1			
85	%R1280	dd_mbus_period_slave_09					1			
86	%R1310	dd_mbus_period_slave_11					1			
87	%R1355	dd_mbus_period_slave_14					1			
88	%R0748	dd_mbus_slaves					1			
89	%R0442	dd_mbus_slot_eu_01					1			
90	%R1631	dd_mbus_subs_nb_ches					1			

91	%R1166	dd_mbus_subts_nb_eva_01					1		
92	%R1181	dd_mbus_subts_nb_slaves_02					1		
93	%R1271	dd_mbus_subts_nb_slaves_08					1		
94	%R1286	dd_mbus_subts_nb_slaves_09					1		
95	%R0219	dd_s80_iab_adr_ii_007					1		X
96	%R0225	dd_s80_iab_adr_ii_0010					1		X
97	%R0227	dd_s80_iab_adr_ii_0011					1		X
98	%R0229	dd_s80_iab_adr_ii_0012					1		X
99	%R9020	dd_s80_iab_e_0020					1		X
100	%R0202	dd_s80_iab_nbr_16bits					1		X
101	%R0220	dd_s80_iab_nbr_16it_0007					1		X
102	%R0226	dd_s80_iab_nbr_16it_0010					1		X
103	%R0228	dd_s80_iab_nbr_16it_0011					1		X
104	%R0230	dd_s80_iab_nbr_16it_0012					1		X
105	%R0187	dd_s80_iap_1st_word_ps					1		X
106	%R0186	dd_s80_iap_nbr_16bits					1		X
107	%R9506	dd_s80_nbr_tm					1		
108	%R9801	dd_s80_subts_nbr					1		
109	%R9507	dd_s80_tm_0001					1		
110	%R9508	dd_s80_tm_0002					1		
111	%R9509	dd_s80_tm_0003					1		
112	%R9510	dd_s80_tm_0004					1		
113	%R9511	dd_s80_tm_0005					1		
114	%R9512	dd_s80_tm_0006					1		
115	%R9513	dd_s80_tm_0007					1		
116	%R9514	dd_s80_tm_0008					1		
117	%R9515	dd_s80_tm_0009					1		
118	%R9516	dd_s80_tm_0010					1		
119	%R9517	dd_s80_tm_0011					1		
120	%R9518	dd_s80_tm_0012					1		
121	%R9519	dd_s80_tm_0013					1		
122	%R9520	dd_s80_tm_0014					1		
123	%R9521	dd_s80_tm_0015					1		
124	%R9522	dd_s80_tm_0016					1		
125	%R9523	dd_s80_tm_0017					1		
126	%R9524	dd_s80_tm_0018					1		
127	%R9525	dd_s80_tm_0019					1		
128	%R9526	dd_s80_tm_0020					1		
129	%R9527	dd_s80_tm_0021					1		
130	%R9528	dd_s80_tm_0022					1		
131	%R9529	dd_s80_tm_0023					1		
132	%R9530	dd_s80_tm_0024					1		
133	%R9531	dd_s80_tm_0025					1		
134	%R9532	dd_s80_tm_0026					1		
135	%R9533	dd_s80_tm_0027					1		
136	%R9534	dd_s80_tm_0028					1		
137	%R9535	dd_s80_tm_0029					1		
138	%R9536	dd_s80_tm_0030					1		
139	%R9537	dd_s80_tm_0031					1		
140	%R9538	dd_s80_tm_0032					1		
141	%R9539	dd_s80_tm_0033					1		
142	%R9540	dd_s80_tm_0034					1		
143	%R9541	dd_s80_tm_0035					1		
144	%R9542	dd_s80_tm_0036					1		
145	%R9543	dd_s80_tm_0037					1		
146	%R9544	dd_s80_tm_0038					1		
147	%R9545	dd_s80_tm_0039					1		
148	%R9546	dd_s80_tm_0040					1		
149	%R9547	dd_s80_tm_0041					1		
150	%R9548	dd_s80_tm_0042					1		
151	%R9549	dd_s80_tm_0043					1		
152	%R9550	dd_s80_tm_0044					1		
153	%R9551	dd_s80_tm_0045					1		
154	%R9552	dd_s80_tm_0046					1		
155	%R9553	dd_s80_tm_0047					1		
156	%R9554	dd_s80_tm_0048					1		
157	%R9555	dd_s80_tm_0049					1		
158	%R9556	dd_s80_tm_0050					1		
159	%R9557	dd_s80_tm_0051					1		
160	%R9558	dd_s80_tm_0052					1		
161	%R9559	dd_s80_tm_0053					1		
162	%R9560	dd_s80_tm_0054					1		
163	%R9561	dd_s80_tm_0055					1		
164	%R9562	dd_s80_tm_0056					1		
165	%R9563	dd_s80_tm_0057					1		
166	%R9564	dd_s80_tm_0058					1		
167	%R9565	dd_s80_tm_0059					1		
168	%R9566	dd_s80_tm_0060					1		
169	%R9567	dd_s80_tm_0061					1		
170	%R9568	dd_s80_tm_0062					1		
171	%R9569	dd_s80_tm_0063					1		
172	%R9570	dd_s80_tm_0064					1		
173	%R9571	dd_s80_tm_0065					1		
174	%R9572	dd_s80_tm_0066					1		
175	%R9573	dd_s80_tm_0067					1		
176	%R9574	dd_s80_tm_0068					1		
177	%R9575	dd_s80_tm_0069					1		
178	%R9576	dd_s80_tm_0070					1		
179	%R9577	dd_s80_tm_0071					1		
180	%R9578	dd_s80_tm_0072					1		
181	%R9579	dd_s80_tm_0073					1		
182	%R9580	dd_s80_tm_0074					1		
183	%R9581	dd_s80_tm_0075					1		
184	%R9582	dd_s80_tm_0076					1		
185	%R9583	dd_s80_tm_0077					1		
186	%R9584	dd_s80_tm_0078					1		
187	%R9585	dd_s80_tm_0079					1		
188	%R9586	dd_s80_tm_0080					1		
189	%R9587	dd_s80_tm_0081					1		
190	%R9588	dd_s80_tm_0082					1		

191	%R9589	dd_s80_tm_0083					1		
192	%R9590	dd_s80_tm_0084					1		
193	%R9591	dd_s80_tm_0085					1		
194	%R9592	dd_s80_tm_0086					1		
195	%R9593	dd_s80_tm_0087					1		
196	%R9594	dd_s80_tm_0088					1		
197	%R9595	dd_s80_tm_0089					1		
198	%R9596	dd_s80_tm_0090					1		
199	%R9597	dd_s80_tm_0091					1		
200	%R9598	dd_s80_tm_0092					1		
201	%R9599	dd_s80_tm_0093					1		
202	%R9600	dd_s80_tm_0094					1		
203	%R9601	dd_s80_tm_0095					1		
204	%R9602	dd_s80_tm_0096					1		
205	%R9603	dd_s80_tm_0097					1		
206	%R9604	dd_s80_tm_0098					1		
207	%R9605	dd_s80_tm_0099					1		
208	%R9606	dd_s80_tm_0100					1		
209	%R9607	dd_s80_tm_0101					1		
210	%R9608	dd_s80_tm_0102					1		
211	%R9609	dd_s80_tm_0103					1		
212	%R9610	dd_s80_tm_0104					1		
213	%R9611	dd_s80_tm_0105					1		
214	%R9612	dd_s80_tm_0106					1		
215	%R9613	dd_s80_tm_0107					1		
216	%R9614	dd_s80_tm_0108					1		
217	%R9615	dd_s80_tm_0109					1		
218	%R9616	dd_s80_tm_0110					1		
219	%R9617	dd_s80_tm_0111					1		
220	%R9618	dd_s80_tm_0112					1		
221	%R9619	dd_s80_tm_0113					1		
222	%R9620	dd_s80_tm_0114					1		
223	%R9621	dd_s80_tm_0115					1		
224	%R9622	dd_s80_tm_0116					1		
225	%R9623	dd_s80_tm_0117					1		
226	%R9624	dd_s80_tm_0118					1		
227	%R9625	dd_s80_tm_0119					1		
228	%R9626	dd_s80_tm_0120					1		
229	%R9627	dd_s80_tm_0121					1		
230	%R9628	dd_s80_tm_0122					1		
231	%M0930	ld_mbus_digipid_read_waa_ad					1		
232	%M0938	ld_mbus_digipid_write_level					1		
233	%M0971	ld_mmi_ok	COMMUNICATION WITH MMI IS OK				1		
234	%M1025	ld_mmi_ts_0001					1		
235	%M1026	ld_mmi_ts_0002					1		
236	%M1027	ld_mmi_ts_0003					1		
237	%M1028	ld_mmi_ts_0004					1		
238	%M1029	ld_mmi_ts_0005					1		
239	%M1030	ld_mmi_ts_0006					1		
240	%M1031	ld_mmi_ts_0007					1		
241	%M1032	ld_mmi_ts_0008					1		
242	%M1033	ld_mmi_ts_0009					1		
243	%M1034	ld_mmi_ts_0010					1		
244	%M1035	ld_mmi_ts_0011					1		
245	%M1036	ld_mmi_ts_0012					1		
246	%M1037	ld_mmi_ts_0013					1		
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905	%M1696	ld_mmi_ts_0672					1		
906	%M1697	ld_mmi_ts_0673					1		
907	%M1698	ld_mmi_ts_0674					1		
908	%M1699	ld_mmi_ts_0675					1		
909	%M1700	ld_mmi_ts_0676					1		
910	%M0973	ld_plc_1stflt	FIRST STAGE FAULT				1		
911	%M0974	ld_plc_confflt	I/O MODULE OR COPROCESSOR NOK				1	S	
912	%M0961	ld_plc_run	THE CONTROLLER IS RUNNING				1	S	BS
913	%T242	ld_plc_stop_req	ORDER TO STOP THE CONTROLLER				1		
914	%M0975	ld_plc_vrbble_forced	AT LEAST ONE BIT IS FORCED				1	S	
915	%M0073	ld_redundant_cell					1		
916	%M0065	ld_s80_fc_atrg					1		
917	%M0069	ld_s80_fc_rgrpr					1		X
918	%Q1025	ld_s80_lab_e_0001					1		X
919	%Q1026	ld_s80_lab_e_0002					1		X
920	%Q1027	ld_s80_lab_e_0003					1		X
921	%Q1028	ld_s80_lab_e_0004					1		X
922	%Q1029	ld_s80_lab_e_0005					1		X
923	%Q1030	ld_s80_lab_e_0006					1		X
924	%Q1031	ld_s80_lab_e_0007					1		X
925	%Q1032	ld_s80_lab_e_0008					1		X
926	%Q1033	ld_s80_lab_e_0009					1		X
927	%Q1281	ld_s80_invalid_tm_0001					1		
928	%Q1282	ld_s80_invalid_tm_0002					1		
929	%Q1283	ld_s80_invalid_tm_0003					1		
930	%Q1284	ld_s80_invalid_tm_0004					1		
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932	%Q1286	ld_s80_invalid_tm_0006					1		
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945	%Q1299	ld_s80_invalid_tm_0019					1		
946	%Q1300	ld_s80_invalid_tm_0020					1		
947	%Q1301	ld_s80_invalid_tm_0021					1		
948	%Q1302	ld_s80_invalid_tm_0022					1		
949	%Q1303	ld_s80_invalid_tm_0023					1		
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951	%Q1305	ld_s80_invalid_tm_0025					1		
952	%Q1306	ld_s80_invalid_tm_0026					1		
953	%Q1307	ld_s80_invalid_tm_0027					1		
954	%Q1308	ld_s80_invalid_tm_0028					1		
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956	%Q1310	ld_s80_invalid_tm_0030					1		
957	%Q1311	ld_s80_invalid_tm_0031					1		
958	%Q1312	ld_s80_invalid_tm_0032					1		
959	%Q1313	ld_s80_invalid_tm_0033					1		
960	%Q1314	ld_s80_invalid_tm_0034					1		
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962	%Q1316	ld_s80_invalid_tm_0036					1		
963	%Q1317	ld_s80_invalid_tm_0037					1		
964	%Q1318	ld_s80_invalid_tm_0038					1		
965	%Q1319	ld_s80_invalid_tm_0039					1		
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968	%Q1322	ld_s80_invalid_tm_0042					1		
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975	%Q1329	ld_s80_invalid_tm_0049					1		
976	%Q1330	ld_s80_invalid_tm_0050					1		
977	%Q1331	ld_s80_invalid_tm_0051					1		
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1672	%Q3037	id_s80_ls_0445					1		
1673	%Q3038	id_s80_ls_0446					1		
1674	%Q3039	id_s80_ls_0447					1		
1675	%Q3040	id_s80_ls_0448					1		
1676	%Q3041	id_s80_ls_0449					1		
1677	%Q3042	id_s80_ls_0450					1		
1678	%Q3043	id_s80_ls_0451					1		
1679	%Q3044	id_s80_ls_0452					1		
1680	%Q3045	id_s80_ls_0453					1		
1681	%Q3046	id_s80_ls_0454					1		
1682	%Q3047	id_s80_ls_0455					1		
1683	%Q3048	id_s80_ls_0456					1		
1684	%Q3049	id_s80_ls_0457					1		
1685	%Q3050	id_s80_ls_0458					1		
1686	%Q3051	id_s80_ls_0459					1		
1687	%Q3052	id_s80_ls_0460					1		
1688	%Q3053	id_s80_ls_0461					1		
1689	%Q3054	id_s80_ls_0462					1		
1690	%Q3055	id_s80_ls_0463					1		

