



Santiago, 23 de abril 2025  
Referencia: Respuesta Carta DE01746-25

Señor:  
Rodrigo Espinoza V.  
Gerente de Operación  
Coordinador Eléctrico Nacional  
Presente.

De nuestra consideración, a nombre de PMGD SOLAR LOS PERALES I SPA, enviamos el presente de acuerdo a lo solicitado en la carta DE01746-25.

A través del presente se informa que no tenemos registros disponibles en formato COMTRADE o \*.EVT, donde no sabes bien la causa de su no disponibilidad o pérdida de esta, ya que tuvimos fallas posteriores, dado que el alimentador donde estamos conectados es oscilante y los ajustes están sin mucha holgura.

Ilustramos a continuación las distintas capturas de pantalla de los equipos.

Sequence of Events										
Evt	Date	Time	Type	IA	IB	IC	3I0	VA	VB	VC
040	25/03/30	00:46:49.290	MAN/EXT TRIP/LO	0	0	0	0	5	5	6
041	25/03/30	00:46:49.290	CONTROL LOCKOUT	0	0	0	0	5	5	6
042	25/02/28	22:35:44.130	MANUAL/EXT CLOSE	0	0	0	0	5	5	5
043	25/02/28	22:33:39.175	MAN/EXT TRIP/LO	0	0	0	0	5	5	5
044	25/02/28	22:33:39.175	CONTROL LOCKOUT	0	0	0	0	5	5	5
045	25/02/26	00:00:02.819	CONTROL ALARMS	0	0	0	0	5	5	6
046	25/02/25	22:35:18.392	MANUAL/EXT CLOSE	0	0	0	0	5	5	6
047	25/02/25	21:44:59.550	CONTROL LOCKOUT	0	0	0	0	5	5	5
048	25/02/25	21:44:57.650	no control alarm	0	0	0	0	5	5	5
049	25/02/25	14:19:53.554	MAN/EXT TRIP/LO	61	61	63	0	5	5	5
050	25/02/25	14:19:53.554	CONTROL LOCKOUT	61	61	63	0	5	5	5
051	25/02/25	14:19:53.543	USER SOE #6 ON	62	61	62	0	5	5	5
052	25/02/06	00:00:03.382	CONTROL ALARMS	0	0	0	0	6	5	6
053	25/02/05	09:22:56.663	no control alarm	0	0	0	0	6	5	5
054	25/01/07	11:32:01.040	MANUAL/EXT CLOSE	0	0	0	0	6	5	5
055	25/01/07	09:03:09.793	MAN/EXT TRIP/LO	12	15	16	0	5	5	5
056	25/01/07	09:03:09.793	CONTROL LOCKOUT	12	15	16	0	5	5	5
057	25/01/07	09:03:09.782	USER SOE #6 ON	11	15	14	0	5	5	5
058	24/12/22	00:00:01.989	CONTROL ALARMS	0	0	0	0	5	5	6
059	24/12/21	20:45:04.693	no control alarm	0	0	0	0	6	5	6
060	24/12/09	14:38:27.702	MANUAL/EXT CLOSE	0	0	0	0	5	5	5
061	24/12/09	14:34:37.073	MAN/EXT TRIP/LO	55	51	57	1	5	5	5
062	24/12/09	14:34:37.073	CONTROL LOCKOUT	55	51	57	1	5	5	5

OK

Write to file...

Reset SOE

Go Offline

Oscillographic Event Manager

PC events

Simulation Events:

Save as...

Generate report...

View event file...

Copy to Clipboard

Delete

Device events

Time/Length: Wed Apr 23 2025 12:26:38.9708/179

N/A Fault, No Dist, 6.4 cyc load, IA=26.5, IB=26.3, IC=26.1 (Amps pri)

Refresh list

Upload

Copy to Clipboard

Delete All

Trigger

Upload All

View newest event on device

Exit

Help

Simplified Setup

Group **Normal** Cancel Help OK

**Operations Sequence**

	TCC1	TCC2	Min Trip	Trip #1	Trip #2	Trip #3	Trip #4
Ph	111	111	81	TCC2	TCC1	TCC2	TCC2
Ph Rcls Interval #1, #2, #3	2			2	5		
Gd	115	115	40	TCC2	TCC1	TCC2	TCC2
Gd Rcls Interval #1, #2, #3	2			2	5		
Trips to Lockout			1	Reset Time 90			

**Complex TCC**

		Time Multiplier	Time Adder	Min Rsp Time
TCC1	Ph	1.2	0	0.013
	Gd	1	0.15	0.013
TCC2	Ph	0.3	0	0.013
	Gd	0.2	0.1	0.013

**High Current Trip**

	HCT	Min Trip Mult	Time Delay
TCC1	Ph	6.4	0.016
	Gd	11	0.016
TCC2	Ph	6.4	0.016
	Gd	11	0.016

**Complex TCC**

	Disk Reset Coeff.
TCC1	1e-006
TCC2	1e-006

**Cold Load Pickup**

	TCC	Min Trip	Time Mult.	Time Adder	Min Rsp Time
Ph	111	233	0.15	0	0.013
Gd	115	40	0.2	0.1	0.013
<input type="checkbox"/> Block Ops to L/O 1 Rcls Intrvl 2 Actv Time 2					

**System Configuration, PT/Bushing Connections**

Description **Pmgd Perales 1**

Connected... ☒ A/AB ☒ B/BC ☒ C/CA

PT Ratio [x:1] 2200 2200 2200

Adjust (deg) 4.8 4.8 4.8

V expected 13.2 1-2 3-4 5-6

CT Type 1Amp Wye-Connected PT's

CTR (1A) 1000 A-B-C Phase Sequence

CTR (5A) 1200 Disable Phantom Phase

☒ Pole Mounted System Frequency 50

**High Current Lockout**

	Pickup	Trip #1	Trip #2	Trip #3
Ph	20000	<input type="checkbox"/> En	<input type="checkbox"/> En	<input type="checkbox"/> En
Gd	20000	<input type="checkbox"/> En	<input type="checkbox"/> En	<input type="checkbox"/> En

**Reclose Retry**

☐ Enable Interval 60 # of Attempts 1

**Interrupter Duty**

100% Duty Factor Preset

	Ph A%	Ph B%	Ph C%
1111 [kA*10 <sup>-5</sup> ]	5.29709	0.302364	0.0458749

Operations Parameters - TCC2

Edit Group **Normal** Change Setting Group TCC Editor Help Cancel OK

**TCC2**

	Phase	Ground	Negative Sequence
Curve Type	Kyle 111	Kyle 115	Kyle 117
Time Multiplier	0.3	0.2	1
<input checked="" type="checkbox"/> TCC2 Mult Enable	<input checked="" type="checkbox"/> TCC2 Mult Enable	<input checked="" type="checkbox"/> TCC2 Mult Enable	<input type="checkbox"/> TCC2 Mult Enable
Time Adder	0 Seconds	0.1 Seconds	0 Seconds
<input type="checkbox"/> TCC2 Add Enable	<input checked="" type="checkbox"/> TCC2 Add Enable	<input type="checkbox"/> TCC2 Add Enable	<input type="checkbox"/> TCC2 Add Enable
Minimum Response Time	0.013 Seconds	0.013 Seconds	0.013 Seconds
<input type="checkbox"/> TCC2 MRTA Enable	<input type="checkbox"/> TCC2 MRTA Enable	<input type="checkbox"/> TCC2 MRTA Enable	<input type="checkbox"/> TCC2 MRTA Enable
High Current Trip	6.4 × Min Trip	11 × Min Trip	32 × Min Trip
HCT Time Delay	0.016 Seconds	0.016 Seconds	0.016 Seconds
<input type="checkbox"/> TCC2 HCT Enable	<input type="checkbox"/> TCC2 HCT Enable	<input type="checkbox"/> TCC2 HCT Enable	<input type="checkbox"/> TCC2 HCT Enable
Reset Coefficient	1e-006 Seconds	1e-006 Seconds	1e-006 Seconds
<input type="checkbox"/> TCC2 Disk Reset	<input type="checkbox"/> TCC2 Disk Reset	<input type="checkbox"/> TCC2 Disk Reset	<input type="checkbox"/> TCC2 Disk Reset

User Curves... Import Curve Parameters from TCC Editor

Import TCC2P Import TCC2G Import TCC2Q

Voltage

Edit Group **Normal** Change Setting Group Help Cancel OK

	Undervoltage	Overvoltage	Auto-Restoration from Under/Overvoltage Loadshed
Phase Pickup	11.96 kV (pri)	14.63 kV (pri)	<input type="checkbox"/> Enable Restoration
Phase Time Delay	2 Seconds	1 Seconds	Mode Any Single Phase
Three-Phase Pickup	6.64 kV (pri)	15.95 kV (pri)	Voltage High Limit 15.12 kV (pri)
Three-Phase Time Delay	0.16 Seconds	0.16 Seconds	Voltage Low Limit 13.68 kV (pri)
Alarm Pickup	10 kV (pri)	17 kV (pri)	Schedule Time 300 Seconds
AlarmTime Delay	100 Seconds	100 Seconds	Restoration Abort Time 600 Seconds
<input type="checkbox"/> Enable 1P UV Trips	<input type="checkbox"/> Enable OV Trips	Transient Time 0.3 Seconds	<input type="checkbox"/> Supervise Using BOTH Voltage and Frequency Restoration Limits
<input type="checkbox"/> with 3P Inhibit			
<input type="checkbox"/> Enable 3P UV Trips			

Undervoltage Pickup (kVpri), MIN = 0, MAX = 200

Frequency

Edit Group **Normal** **Change Setting Group**

	Underfrequency Tripping	Overfrequency Tripping
Stage 1 Pickup	49 Hz	51.6 Hz
Stage 1 Time Delay	90 Seconds	0.1 Seconds
Stage 2 Pickup	47.9 Hz	51 Hz
Stage 2 Time Delay	0.1 Seconds	90 Seconds
	<input type="checkbox"/> Enable UFreq Trips	<input type="checkbox"/> Enable OFreq Trips

	Underfrequency Alarm	Overfrequency Alarm
Frequency Alarm	48.9 Hz	60.1 Hz
Alarm Time Delays	10 Seconds	10 Seconds

Minimum Voltage for Frequency Tripping  
3.6 kV (pri)

Auto-Restoration from Underfrequency Loadshed

☐ Enable Restoration

Restoration Frequency 60.05 Hz      Schedule Time 300 Seconds

Restoration Abort Time 600 Seconds      Transient Time 0.3 Seconds

☐ Supervise Using BOTH Voltage and Frequency Restoration Limits

Underfrequency pickup [seeHelp for specified range per system frequency, Hz]

Sin otro particular, se despide atentamente,



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Bruno Badillo Zúñiga  
Jefe de Planta  
PMGD SOLAR LOS PERALES I SpA