

Project: Sistema Eléctrico Oriental
 Location: QQR - Maturin
 Contract:
 Engineer: E. VARGAS
 Filename: SEN_ORIENTAL

ETAP PowerStation
 4.7.6C

Study Case: EST_CC_2006

Page: 1
 Date: 21-08-2006
 SN: PDVSACORP3
 Revision: BASE_2006
 Config.: BASE_2006

PLAN SIEMBRA DE PETRÓLEO 2006-2012

SHORT- CIRCUIT REPORT

Fault at bus: **Crig. Sn. Jq**

Nominal kV = 69.000 Prefault Voltage = 100.00 % of nominal bus kV
 Base kV = 69.000 = 100.00 % of base kV

Contribution		3-Phase Fault		Line-To-Ground Fault					Positive & Zero Sequence Impedances Looking into "From Bus"			
From Bus ID	To Bus ID	% V From Bus	kA Symm. rms	% Voltage at From Bus			kA Symm. rms		% Impedance on 100 MVA base			
				Va	Vb	Vc	Ia	3I0	R1	X1	R0	X0
Crig. Sn. Jq	Total	0.00	6.557	0.00	96.86	91.82	7.386	7.386	2.41E+000	1.25E+001	7.86E-001	8.46E+000
C.O .S J- B1	Crig. Sn. Jq	4.04	1.405	4.56	96.56	92.07	1.229	0.527	1.65E+001	5.72E+001	3.81E+001	1.13E+002
Mapiri	Crig. Sn. Jq	62.50	1.132	63.69	96.87	97.35	0.949	0.299	2.71E+001	6.88E+001	7.56E+001	1.95E+002
Sn. Jqn Btr	Crig. Sn. Jq	9.29	1.292	10.30	96.23	92.49	1.122	0.460	1.76E+001	6.23E+001	4.37E+001	1.29E+002
Der. San Roque- Kaki	Crig. Sn. Jq	0.37	0.043	0.28	96.88	91.91	0.033	0.000	2.91E+002	1.91E+003		
Gen S.Jqn	Crig. Sn. Jq	33.58	0.917	65.66	66.78	100.00	1.369	2.048 *	2.57E+000	9.12E+001	1.29E+000	3.06E+001
Gen S.Jqn	Crig. Sn. Jq	33.58	0.917	65.66	66.78	100.00	1.369	2.048 *	2.57E+000	9.12E+001	1.29E+000	3.06E+001
Gen S.Jqn	Crig. Sn. Jq	33.58	0.917	65.66	66.78	100.00	1.369	2.048 *	2.57E+000	9.12E+001	1.29E+000	3.06E+001
Sta.Rosa 69	C.O .S J- B1	55.56	1.405	62.71	92.79	95.30	1.229	0.527	1.55E+001	5.50E+001	3.54E+001	1.06E+002
Cachama	Mapiri	82.54	0.607	84.49	97.50	98.38	0.508	0.158	8.39E+000	5.14E+001	4.18E+001	1.22E+002
Soto Este	Mapiri	72.37	0.525	74.19	97.14	97.68	0.442	0.141	2.42E+001	5.51E+001	5.19E+001	1.34E+002
Mapiri Carga	Mapiri	100.00	0.008	100.00	100.00	100.00	0.006	0.000	5.52E+002	3.68E+003		
Sta.Rosa 69	Sn. Jqn Btr	55.56	1.214	62.71	92.79	95.30	1.064	0.460	1.65E+001	6.04E+001	3.69E+001	1.12E+002
Sn Jqn Btr Carga	Sn. Jqn Btr	100.00	0.078	100.00	100.00	100.00	0.059	0.000	1.44E+002	9.64E+002		
Kaki/Bucaral	Der. San Roque- Kaki	0.98	0.043	0.74	96.91	92.06	0.033	0.000	2.88E+002	1.90E+003		
Sn.Roque_69	Der. San Roque- Kaki	0.37	0.000	0.28	96.88	91.91	0.000	0.000				
Gen 2 S. JQ	Gen S.Jqn	100.00	7.265	100.00	100.00	100.00	4.724	0.000	3.83E-001	3.83E+001	1.28E-001	1.28E+001
Gen_cri_1	Gen S.Jqn	100.00	5.448	100.00	100.00	100.00	3.542	0.000	1.06E+000	5.10E+001	1.06E+000	5.10E+001
San Joaquin Carga	Gen S.Jqn	104.55	1.047	104.55	104.55	104.55	0.681	0.000	2.64E+001	2.64E+002		

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Indicates fault current contribution is from three-winding transformers

* Indicates a zero sequence fault current contribution (3I0) from a grounded Delta-Y transformer