

ANEXO I

(Observación N° 24) PARAMETROS DE EQUIPOS DE TRANSMISION Y TRANSFORMACION

- Modificación de parámetros de equipos de transmisión y transformación.
- Carta COES-SINAC/ D-091-2003 de fecha 04.01.2003.
 - Cuadro I-1: Modificación de parámetros de equipos de transmisión y transformación.

Se adjunta en medio magnético archivo Cuadro I-1.xls.

**CUADRO I-1
MODIFICACION DE PARAMETROS DE EQUIPOS DE TRANSMISION Y TRANSFORMACION**

CODIGO	SALIDA	LLEGADA	Nov-02 KM	May-03 KM	VARIACION %	Nov-02 r/KM	May-03 r/KM	VARIACION %	Nov-02 NORMAL	May-03 NORMAL	VARIACION %	Nov-02 EMERG	May-03 EMERG	VARIACION %	Nov-02 MVA NOMINALES	May-03 MVA NOMINALES	VARIACION %
LINE-001	Talara 220KV	Piura 220KV	103.9	103.8	-0.10%	0.0814	0.0711	-12.85%	130.6634	130.6634	0.00%	156.7961	156.7961	0.00%	133.3	133.3	0.00%
LINE-002	Piura 220KV	Chiclayo 220KV	211.2	211.19	0.00%	0.0841	0.0768	-8.68%	149.9520	149.9520	0.00%	178.2224	178.2224	0.00%	152.4	152.4	-0.26%
LINE-003	Chiclayo 220KV	Carnaguero 220KV	83	83	0.00%	0.0900	0.0900	0.00%	112.0140	112.0140	0.00%	134.4168	134.4168	0.00%	114.3	114.3	0.00%
LINE-004	Chiclayo 220KV	Guadalupe 220KV	83.74	83.618	-0.15%	0.0804	0.0931	15.80%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-005	Trujillo 220KV	Guadalupe 220KV	103.35	103.213	-0.13%	0.0791	0.0931	17.70%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-006	Chimbote 220KV	Trujillo 220KV	132.81	134	0.90%	0.0577	0.0670	16.12%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-007	Chimbote 220KV	Chimbote 220KV	133.75	134	0.19%	0.0591	0.0670	2.37%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-008	Paramonga Nueva 220KV	Chimbote 220KV	221.17	221.167	0.00%	0.0810	0.0900	11.11%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-009	Paramonga Nueva 220KV	Huacho 220KV	53.98	55.63	5.85%	0.0921	0.0899	-9.50%	224.0280	224.0280	0.00%	268.8336	268.8336	0.00%	228.6	228.6	0.00%
LINE-010	Zapallal 220KV	Huacho 220KV	110	103.86	-5.51%	0.0821	0.0502	-38.51%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-011	Ventanilla 220KV	Zapallal 220KV	18.02	18	-0.11%	0.0772	0.0892	15.90%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-012	Ventanilla 220KV	Chavarría 220KV	10.58	10.56	-0.19%	0.0871	0.0882	0.12%	224.0280	224.0280	0.00%	268.8336	268.8336	0.00%	228.6	228.6	0.00%
LINE-013	Ventanilla 220KV	Chavarría 220KV	10.58	11.08	4.73%	0.0782	0.0871	12.82%	224.0280	224.0280	0.00%	268.8336	268.8336	0.00%	228.6	228.6	0.00%
LINE-014	Ventanilla 220KV	Chavarría 220KV	8.46	8.348	-1.32%	0.0619	0.0733	18.42%	224.0280	224.0280	0.00%	268.8336	268.8336	0.00%	228.6	228.6	0.00%
LINE-015	Chavarría 220KV	Santa Rosa 220KV	8.46	8.348	-1.32%	0.0619	0.0733	18.42%	224.0280	224.0280	0.00%	268.8336	268.8336	0.00%	228.6	228.6	0.00%
LINE-016	Chavarría 220KV	Santa Rosa 220KV	26.37	26.285	-0.32%	0.0602	0.0725	20.43%	224.0280	224.0280	0.00%	268.8336	268.8336	0.00%	228.6	228.6	0.00%
LINE-017	Santa Rosa 220KV	San Juan 220KV	26.37	26.285	-0.32%	0.0602	0.0725	20.43%	224.0280	224.0280	0.00%	268.8336	268.8336	0.00%	228.6	228.6	0.00%
LINE-018	San Juan 220KV	Baños 220KV	9.831	9.83	-0.01%	0.0740	0.0733	-0.95%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-019	San Juan 220KV	Baños 220KV	214.748	214.748	0.00%	0.0830	0.0880	6.00%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-020	San Juan 220KV	Independencia 220KV	216.24	216.24	0.00%	0.0900	0.0900	0.00%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-021	San Juan 220KV	Independencia 220KV	216.24	216.24	0.00%	0.0900	0.0900	0.00%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-022	San Juan 220KV	Independencia 220KV	216.24	216.24	0.00%	0.0900	0.0900	0.00%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-023	Independencia 220KV	Ica 220KV	55.19	55.19	0.00%	0.0830	0.0830	0.00%	138.1800	138.1800	0.00%	165.8160	165.8160	0.00%	141.0	141.0	0.00%
LINE-024	Ica 220KV	Marcona 220KV	155	155	0.00%	0.0830	0.0830	0.00%	138.1800	138.1800	0.00%	165.8160	165.8160	0.00%	141.0	141.0	0.00%
LINE-025	Pomacocha 220KV	Pomacocha 220KV	113.497	113.497	0.00%	0.0610	0.0610	0.00%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-026	Pomacocha 220KV	San Juan 220KV	113.497	113.497	0.00%	0.0610	0.0610	0.00%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-027	Pachacocha 220KV	Pachacocha 220KV	13.5	13.458	-0.31%	0.0580	0.0602	3.79%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-028	Pachacocha 220KV	Pachacocha 220KV	72.8	72.64	-0.22%	0.0600	0.0563	-6.17%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-029	Matucana 220KV	Callahuana 220KV	22.502	22.5	-0.01%	0.0750	0.0750	0.00%	224.0280	224.0280	0.00%	268.8336	268.8336	0.00%	228.6	228.6	0.00%
LINE-030	Matucana 220KV	Callahuana 220KV	22.502	22.5	-0.01%	0.0750	0.0750	0.00%	224.0280	224.0280	0.00%	268.8336	268.8336	0.00%	228.6	228.6	0.00%
LINE-031	Rizco 220KV	Callahuana 220KV	36.354	36.4	0.11%	0.0750	0.0736	-1.87%	362.9920	362.9920	0.00%	435.5904	435.5904	0.00%	370.4	370.4	0.00%
LINE-032	Callahuana 220KV	Callahuana 220KV	55.373	55.4	0.05%	0.0750	0.0736	-1.87%	362.9920	362.9920	0.00%	435.5904	435.5904	0.00%	370.4	370.4	0.00%
LINE-033	Callahuana 220KV	Callahuana 220KV	55.373	55.4	0.05%	0.0750	0.0736	-1.87%	362.9920	362.9920	0.00%	435.5904	435.5904	0.00%	370.4	370.4	0.00%
LINE-034	Manara 220KV	Pomacocha 220KV	192.328	192.328	0.00%	0.0580	0.0610	5.17%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-035	Manara 220KV	Pomacocha 220KV	248.5	248.528	0.01%	0.0580	0.0610	5.17%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-036	Manara 220KV	Huancavelica 220KV	67.5	67	-0.74%	0.0580	0.0610	5.17%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-037	Manara 220KV	Huancavelica 220KV	181.4	180.78	-0.34%	0.0580	0.0610	5.17%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-038	Huancavelica 220KV	Pachacocha 220KV	195.128	195.128	0.00%	0.0580	0.0601	3.62%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-039	Huancavelica 220KV	Pachacocha 220KV	195.128	195.128	0.00%	0.0580	0.0601	3.62%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-040	Manara 220KV	Huancavelica 220KV	76.7	75.99	-3.77%	0.0580	0.0556	-4.14%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-041	Manara 220KV	Huancavelica 220KV	76.7	75.99	-3.77%	0.0580	0.0556	-4.14%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-042	Huayucachi 220KV	Zapallal 220KV	238.3	244.4	2.56%	0.0580	0.0579	-0.17%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-043	Huayucachi 220KV	Zapallal 220KV	238.3	244.4	2.56%	0.0580	0.0579	-0.17%	148.9600	148.9600	-0.26%	178.7520	178.7520	-0.26%	152.4	152.4	-0.26%
LINE-044	Pachacocha 220KV	Oroya 220KV	21.633	21.633	0.00%	0.0527	0.0527	0.00%	252.9380	252.9380	0.00%	303.5256	303.5256	0.00%	258.1	258.1	0.00%
LINE-045	Aguyavia 220KV	Tingo Maria 220KV	73.2	73.267	0.09%	0.0643	0.0575	-10.58%	186.7096	186.7096	0.00%	224.0515	224.0515	0.00%	190.5	190.5	-0.27%
LINE-046	Tingo Maria 220KV	Vizcarra 220KV	147.4	145.289	-1.43%	0.0643	0.0575	-10.58%	186.7096	186.7096	0.00%	224.0515	224.0515	0.00%	190.5	190.5	-0.27%
LINE-047	Vizcarra 220KV	Paramonga Nueva 220KV	23.53	23.5	-0.13%	0.0300	0.0300	0.00%	39.7194	39.7194	29.90%	36.6912	36.6912	0.00%	40.5	40.5	0.00%
LINE-048	Huampantani 60KV	Nana	7.912	7.98	1.00%	0.1750	0.1388	-20.54%	39.7194	39.7194	29.90%	36.6912	36.6912	0.00%	40.5	40.5	0.00%
LINE-049	Huampantani 60KV	Nana	13.082	17.98	36.69%	0.1750	0.1388	-20.54%	39.7194	39.7194	29.90%	36.6912	36.6912	0.00%	40.5	40.5	0.00%
LINE-050	Callahuana 60KV	Huachipa 60KV	41.2	40.8	-0.97%	0.3000	0.1700	-43.33%	61.1520	61.1520	0.00%	73.3824	73.3824	0.00%	62.4	62.4	0.00%
LINE-051	Huachipa 60KV	Santa Rosa 60KV	15	15	0.00%	0.3000	0.1700	-43.33%	61.1520	61.1520	0.00%	73.3824	73.3824	0.00%	62.4	62.4	0.00%
LINE-052	Huachipa 60KV	Santa Rosa 60KV	15	15	0.00%	0.3000	0.1700	-43.33%	61.1520	61.1520	0.00%	73.3824	73.3824	0.00%	62.4	62.4	0.00%
LINE-053	Huachipa 60KV	Puente 60KV	6.713	7.05	5.02%	0.1220	0.1100	-9.84%	61.1520	61.1520	0.00%	73.3824	73.3824	0.00%	62.4	62.4	0.00%
LINE-054	Santa Rosa 60KV	Puente 60KV	6.713	7.05	5.02%	0.1220	0.1100	-9.84%	61.1520	61.1520	0.00%	73.3824	73.3824	0.00%	62.4	62.4	0.00%
LINE-055	Santa Rosa 60KV	Baños 60KV	6.713	7.09	5.62%	0.1220	0.1100	-9.84%	61.1520	61.1520	0.00%	73.3824	73.3824	0.00%	62.4	62.4	0.00%
LINE-056	Puente 60KV	Baños 60KV	6.713	7.09	5.62%	0.1220	0.1100	-9.84%	61.1520	61.1520	0.00%	73.3824	73.3824	0.00%	62.4	62.4	0.00%
LINE-057	Baños 60KV	Baños 60KV	4.455	4.46	0.11%	0.1100	0.1096	-0.16%	49.7840	49.7840	0.00%	59.7408	59.7408	0.00%	50.8	50.8	0.00%
LINE-058	Baños 60KV	Salamanca 60KV	46.346	46.35	0.01%	0.1100	0.1051	-4.45%	45.8640	45.8640	0.00%	55.0368	55.0368	0.00%	46.8	46.8	0.00%
LINE-059	Baños 60KV	Salamanca 60KV	46.346	46.35	0.01%	0.1100	0.1051	-4.45%	45.8640	45.8640	0.00%	55.0368	55.0368	0.00%	46.8	46.8	0.00%
LINE-060	Callahuana 60KV	Moyopampa 60KV	12.865	12.9	0.27%	0.1500	0.1490	-0.67%	45.8640	45.8640	0.00%	55.0368	55.0368	0.00%	46.8	46.8	0.00%
LINE-061	Moyopampa 60KV	Moyopampa 60KV	39.8	39.8	0.00%	0.1185	0.1185	0.00%	27.5380	27.5380	0.00%	33.0456	33.0456	0.00%	28.1</		

**CUADRO I-1 (Continuación)
MODIFICACION DE PARAMETROS DE EQUIPOS DE TRANSMISION Y TRANSFORMACION**

CODIGO	¡ SALIDA	LLEGADA	Nov-02 MVA	May-03 MVA	VARIACION %	Nov-02 X/MVA	May-03 X/MVA	VARIACION %	Nov-02 NORMAL	May-03 NORMAL	VARIACION %	NOY-02 EMERG	May-03 EMERG	VARIACION %	MVA NOMINALES	May-03 NOMINALES	VARIACION %
LNE-075	Carhuaymayo 50KV	Malpaso 50KV	64.682	64.682	0.00%	0.3397	0.3397	0.00%	19.7570	19.7570	0.00%	23.7084	23.7084	0.00%	20.2	20.2	0.00%
LNE-076	Carhuaymayo 50KV	Malpaso 50KV	20.356	20.078	-1.37%	0.4843	0.5269	8.80%	19.7570	19.7570	0.00%	23.7084	23.7084	0.00%	20.2	20.2	0.00%
LNE-077	Oroya 50KV	Oroya 50KV	18.645	18.714	0.37%	0.1698	0.1708	0.62%	31.0270	31.0270	0.00%	37.2324	37.2324	0.00%	81.7	81.7	0.00%
LNE-078	Oroya CH 50KV	Malpaso 50KV	2.989	2.969	-0.67%	0.4981	0.4888	-2.27%	31.0270	31.0270	0.00%	37.2324	37.2324	0.00%	81.7	81.7	0.00%
LNE-079	Oroya CH 50KV	Pzinc 50KV	2.679	2.679	0.00%	0.4651	0.4651	0.00%	34.9660	34.9660	0.00%	41.9992	41.9992	0.00%	35.7	35.7	0.00%
LNE-080	Oroya 50KV	Pzinc 50KV	2.438	2.438	0.00%	0.4577	0.4577	0.00%	39.0430	39.0430	0.00%	46.8516	46.8516	0.00%	39.8	39.8	0.00%
LNE-081	Oroya 50KV	Pzinc 50KV	81	81	0.00%	0.1450	0.1450	0.00%	39.0430	39.0430	0.00%	46.8516	46.8516	0.00%	39.8	39.8	0.00%
LNE-082	Chimbote 138KV	Huallanca 138KV	83.97	83.97	0.00%	0.1350	0.1350	0.00%	78.4000	78.4000	0.00%	94.0800	94.0800	0.00%	80.0	80.0	0.00%
LNE-083	Chimbote 138KV	Huallanca 138KV	83.97	83.97	0.00%	0.1350	0.1350	0.00%	78.4000	78.4000	0.00%	94.0800	94.0800	0.00%	80.0	80.0	0.00%
LNE-084	Chimbote 138KV	Huallanca 138KV	83.97	83.97	0.00%	0.1350	0.1350	0.00%	78.4000	78.4000	0.00%	94.0800	94.0800	0.00%	80.0	80.0	0.00%
LNX-001	Mantaro 220KV	Socabaya 220KV	609	609	0.00%	0.0415	0.0415	0.00%	150.0000	150.0000	0.00%	180.0000	180.0000	0.00%	153.0	153.0	0.00%
LNX-002	Mantaro 220KV	Socabaya 220KV	609	609	0.00%	0.0415	0.0415	0.00%	150.0000	150.0000	0.00%	180.0000	180.0000	0.00%	153.0	153.0	0.00%
LNX-003	Venania 220KV	Zapallta 220KV	182	182	-1.11%	0.0761	0.0761	0.00%	250.0574	250.0574	0.00%	268.8689	268.8689	-33.52%	152.0	152.0	-33.52%
LNX-004	Carhuaymayo 220KV	Carhuaymayo 220KV	123.9	123.9	0.00%	0.0952	0.0952	0.00%	181.4960	181.4960	0.00%	217.7952	217.7952	0.00%	185.2	185.2	0.00%
LNX-005	Carhuaymayo 220KV	Carhuaymayo 220KV	123.9	123.9	0.00%	0.0952	0.0952	0.00%	181.4960	181.4960	0.00%	217.7952	217.7952	0.00%	185.2	185.2	0.00%
LNX-006	Carhuaymayo 220KV	Carhuaymayo 220KV	123.9	123.9	0.00%	0.0952	0.0952	0.00%	181.4960	181.4960	0.00%	217.7952	217.7952	0.00%	185.2	185.2	0.00%
LNX-007	Carhuaymayo 220KV	Carhuaymayo 220KV	123.9	123.9	0.00%	0.0952	0.0952	0.00%	181.4960	181.4960	0.00%	217.7952	217.7952	0.00%	185.2	185.2	0.00%
LNX-008	Carhuaymayo 220KV	Carhuaymayo 220KV	123.9	123.9	0.00%	0.0952	0.0952	0.00%	181.4960	181.4960	0.00%	217.7952	217.7952	0.00%	185.2	185.2	0.00%
LNE-001	Callahuana 60 KV	Baños de 60KV	1	1	0.00%	1.4460	1.4460	0.00%	83.3000	83.3000	0.00%	99.8600	99.8600	0.00%	85.0	85.0	0.00%
LNE-002	Callahuana 60 KV	Baños de 60KV	1	1	0.00%	1.4460	1.4460	0.00%	83.3000	83.3000	0.00%	99.8600	99.8600	0.00%	85.0	85.0	0.00%
LNE-003	Callahuana 60 KV	Baños de 60KV	1	1	0.00%	1.4460	1.4460	0.00%	83.3000	83.3000	0.00%	99.8600	99.8600	0.00%	85.0	85.0	0.00%
LNE-004	Callahuana 60 KV	Baños de 60KV	1	1	0.00%	1.4460	1.4460	0.00%	83.3000	83.3000	0.00%	99.8600	99.8600	0.00%	85.0	85.0	0.00%
LNE-005	Callahuana 60 KV	Baños de 60KV	1	1	0.00%	1.4460	1.4460	0.00%	83.3000	83.3000	0.00%	99.8600	99.8600	0.00%	85.0	85.0	0.00%
LNE-006	Oroya 50KV	Oroya 50KV	1	1	0.00%	0.9170	0.9170	0.00%	29.4000	29.4000	0.00%	32.3400	32.3400	0.00%	30.0	30.0	0.00%
LNE-007	Oroya 50KV	Oroya 50KV	1	1	0.00%	0.9170	0.9170	0.00%	29.4000	29.4000	0.00%	32.3400	32.3400	0.00%	30.0	30.0	0.00%
LNE-008	Oroya 50KV	Oroya 50KV	1	1	0.00%	0.9170	0.9170	0.00%	29.4000	29.4000	0.00%	32.3400	32.3400	0.00%	30.0	30.0	0.00%
LNE-009	Carhuaymayo 50KV	Carhuaymayo 50KV	1	1	0.00%	1.2700	1.2700	0.00%	130.0000	130.0000	0.00%	156.0000	156.0000	0.00%	132.6	132.6	0.00%
LNE-010	Carhuaymayo 50KV	Carhuaymayo 50KV	1	1	0.00%	1.2700	1.2700	0.00%	130.0000	130.0000	0.00%	156.0000	156.0000	0.00%	132.6	132.6	0.00%
LNE-011	Carhuaymayo 50KV	Carhuaymayo 50KV	1	1	0.00%	1.2700	1.2700	0.00%	130.0000	130.0000	0.00%	156.0000	156.0000	0.00%	132.6	132.6	0.00%
LNE-012	Carhuaymayo 50KV	Carhuaymayo 50KV	1	1	0.00%	1.2700	1.2700	0.00%	130.0000	130.0000	0.00%	156.0000	156.0000	0.00%	132.6	132.6	0.00%
LNE-013	Carhuaymayo 50KV	Carhuaymayo 50KV	1	1	0.00%	1.2700	1.2700	0.00%	130.0000	130.0000	0.00%	156.0000	156.0000	0.00%	132.6	132.6	0.00%
LSE-001	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-002	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-003	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-004	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-005	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-006	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-007	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-008	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-009	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-010	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-011	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-012	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-013	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-014	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-015	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-016	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-017	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-018	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-019	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-020	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-021	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-022	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-023	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-024	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-025	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-026	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-027	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-028	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-029	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-030	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.1570	0.1570	0.00%	103.8800	103.8800	0.00%	117.6600	117.6600	-5.66%	100.0	100.0	-5.66%
LSE-031	Yuncán 138KV	Yuncán 138KV	10.98	10.98	-1.64%	0.157											



COMITE DE OPERACION ECONOMICA DEL SISTEMA
INTERCONECTADO NACIONAL

San Isidro, 04 de enero de 2003

COES-SINAC/D- 091-2003

Señor Ingeniero
Danilo Valenzuela Oblitas
Gerente de Fiscalización Eléctrica
OSINERG
Presente.-

Asunto: Solicitud de información técnica de equipos para el ESTUDIO DE
COORDINACIÓN DE PROTECCIONES DEL SEIN

De mi mayor consideración:

Con la finalidad de complementar la información técnica de los equipos de las subestaciones comprendidas en el ámbito del Estudio de Coordinación de las Protecciones del SEIN que estamos desarrollando en el COES, solicitamos por su intermedio se nos proporcione la información contenida en los FORMATOS TÉCNICOS con que cuentan su institución:

1. Interruptores de Potencia.
2. Seccionadores.
3. Pararrayos.
4. Transformadores de Tensión.
5. Transformadores de Corriente.
6. Transformadores de medida combinados.
7. Equipos de comunicaciones (teleprotección)
8. Relés de Protección.

Una vez consolidada la información de los equipos principales y complementarios del SEIN, la base de datos será publicada en nuestra Pagina Web, para su utilización en estudios de sistemas de potencia que se efectúen.

Hemos designado a nuestro consultor, Ing. Luis Hernández Cevallos para el recojo de la información y las coordinaciones de detalle que se requieran.

Agradecemos su atención y quedamos de usted,

Atentamente,

Ing. JAIME GUERRA MORTES DE OCA
DIRECTOR DE OPERACIONES
COES-SINAC

CC DOA, DEV, Ing. Luis Hernández