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I	L	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
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AFLUENTE GUANILLO INF

66	50.0	1175.0	0.2	0.0							
					15.0	525.0	3.50	0.17	0.85	0.06	0.00
67	35.0	650.0	0.2	0.0							
					15.0	147.0	0.98	0.19	0.28	0.02	0.85
68	20.0	503.0	0.2	0.0							
					20.0	233.0	1.16	0.21	0.48	0.02	1.13
69	0.0	270.0	0.2	0.0							
											1.60
SUBTOTAL					50.0	905.0			1.60	0.03	

AFLUENTE CARRIZAL SUP

70	102.0	3900.0	0.0	0.0							
					7.0	250.0	3.57	0.00	0.01	0.00	0.00
71	95.0	3650.0	0.0	0.0							
					10.0	330.0	3.30	0.01	0.03	0.00	0.01
72	85.0	3320.0	0.0	0.0							
					10.0	495.0	4.95	0.01	0.06	0.01	0.03
73	75.0	2825.0	0.0	0.0							
					10.0	1025.0	10.25	0.02	0.18	0.02	0.09
74	65.0	1800.0	0.0	0.0							
					10.0	590.0	5.90	0.02	0.14	0.01	0.28
75	55.0	1210.0	0.0	0.0							
					10.0	395.0	3.95	0.03	0.11	0.01	0.42
76	45.0	815.0	0.0	0.0							
					10.0	230.0	2.30	0.03	0.07	0.01	0.53
77	35.0	585.0	0.0	0.0							
											0.59
SUBTOTAL					67.0	3315.0			0.59	0.01	

AFLUENTE CARRIZAL INF

77	35.0	585.0	0.0	0.0							
					5.0	49.0	0.98	0.03	0.01	0.00	0.00
78	30.0	536.0	0.0	0.0							
					10.0	81.0	0.81	0.03	0.03	0.00	0.01
79	20.0	455.0	0.0	0.0							
					10.0	77.0	0.77	0.04	0.03	0.00	0.04
80	10.0	378.0	0.0	0.0							
					10.0	92.0	0.92	0.04	0.04	0.00	0.07
81	0.0	286.0	0.0	0.0							
											0.11
SUBTOTAL					35.0	299.0			0.11	0.00	

AFLUENTE TRANCA SUPER

82	131.0	4000.0	0.0	0.0							
					11.0	115.0	1.05	0.04	0.04	0.00	0.00
83	120.0	3885.0	0.1	0.0							
					10.0	175.0	1.75	0.21	0.35	0.04	0.00
84	110.0	3710.0	0.3	0.0							
					10.0	500.0	5.00	0.36	1.78	0.18	0.00
85	100.0	3210.0	0.4	0.0							
					10.0	610.0	6.10	0.39	2.36	0.24	2.17
86	90.0	2600.0	0.4	0.0							
					10.0	650.0	6.50	0.43	2.71	0.27	4.53
87	80.0	1950.0	0.4	0.0							
					10.0	780.0	7.80	0.48	5.64	0.36	7.24
88	70.0	1170.0	0.5	0.0							
					10.0	350.0	3.50	0.47	1.60	0.16	10.88
89	60.0	820.0	0.4	0.0							
					10.0	180.0	1.80	0.45	0.79	0.08	12.48
90	50.0	640.0	0.5	0.0							
											13.27
SUBTOTAL					81.0	3360.0			13.27	0.16	

AFLUENTE TRANCA INFER

90	50.0	640.0	0.5	0.0							
					5.0	65.0	1.30	0.48	0.30	0.06	0.00
91	45.0	575.0	0.5	0.0							
					10.0	85.0	0.85	0.50	0.42	0.04	0.50
92	35.0	490.0	0.5	0.0							
					10.0	70.0	0.70	0.52	0.36	0.04	0.72
93	25.0	420.0	0.5	0.0							
					10.0	80.0	0.80	0.57	0.45	0.04	1.08
94	15.0	340.0	0.6	0.0							
					10.0	54.0	0.54	0.63	0.34	0.03	1.52
95	5.0	286.0	0.7	0.0							
					5.0	21.0	0.42	0.70	0.15	0.03	1.86
96	0.0	265.0	0.7	0.0							
											2.01
SUBTOTAL					50.0	375.0			2.03	0.04	

I	L	M	Q	AFQ	DL	OH	PE	GC	PGT	ESP	COM
=====											
AFLUENTE NAZCA SUPER											
97	121.0	4125.0	0.0	0.0	10.0	555.0	5.35	0.09	0.28	0.03	0.00
98	111.0	3790.0	0.2	0.0	10.0	130.0	1.30	0.31	0.39	0.04	0.28
99	101.0	3660.0	0.4	0.0	10.0	470.0	4.70	0.59	2.70	0.27	0.68
100	91.0	3190.0	0.7	0.0	10.0	865.0	8.65	0.83	7.04	0.70	3.38
101	81.0	2325.0	0.9	0.0	10.0	855.0	8.55	0.90	8.24	0.82	10.42
102	71.0	1470.0	1.0	0.0	10.0	585.0	5.85	1.00	5.74	0.57	18.65
103	61.0	885.0	1.0	0.0	5.0	143.0	2.86	0.94	1.31	0.26	24.39
104	56.0	742.0	0.9	0.0							25.70
SUBTOTAL					65.0	3383.0			25.70	0.40	
=====											
AFLUENTE NAZCA INFER											
104	56.0	742.0	0.9	0.0	5.0	112.0	2.24	0.91	1.00	0.20	0.00
105	51.0	630.0	0.9	0.3	6.0	133.0	2.22	1.23	1.60	0.27	1.00
106	45.0	497.0	1.2	0.0	5.0	61.0	1.22	1.24	0.74	0.15	2.60
107	40.0	436.0	1.2	0.1	18.0	166.0	0.92	1.38	2.24	0.12	3.34
108	22.0	270.0	1.5	0.2	3.0	5.0	0.17	1.67	0.08	0.03	5.59
109	19.0	265.0	1.7	0.7	9.0	55.0	0.61	2.42	1.30	0.14	5.67
110	10.0	210.0	2.5	0.0	10.0	70.0	0.70	2.46	1.69	0.17	6.97
111	0.0	140.0	2.5	0.0							8.66
SUBTOTAL					56.0	602.0			8.66	0.15	
=====											
AFLUENTE GRANDE SUPER											
112	174.0	4250.0	0.0	0.0	11.0	545.0	4.95	0.35	1.85	0.17	0.00
113	163.0	3705.0	0.7	0.0	10.0	535.0	5.35	1.27	6.66	0.67	1.85
114	153.0	3170.0	1.9	0.0	10.0	700.0	7.00	3.82	26.26	2.63	8.51
115	143.0	2470.0	5.8	0.0	10.0	795.0	7.95	6.35	49.50	4.95	34.76
116	133.0	1675.0	6.9	0.0	10.0	350.0	3.50	7.27	24.97	2.50	84.26
117	123.0	1325.0	7.6	0.0	10.0	200.0	2.00	7.77	15.24	1.52	109.23
118	113.0	1125.0	7.9	0.0	10.0	230.0	2.30	8.23	18.56	1.86	124.47
119	103.0	895.0	8.5	0.0	10.0	265.0	2.65	8.59	22.52	2.23	143.04
120	93.0	630.0	8.6	0.0	10.0	190.0	1.90	8.47	15.78	1.58	165.36
121	83.0	440.0	8.3	0.0	10.0	110.0	1.10	7.97	8.60	0.86	181.14
122	73.0	330.0	7.6	0.0							189.74
SUBTOTAL					101.0	3920.0			189.74	1.88	
=====											
AFLUENTE GRANDE INFER											
122	73.0	330.0	7.6	0.0	5.0	63.0	1.26	7.64	4.72	0.94	0.00
123	68.0	267.0	7.6	1.0	2.0	7.0	0.35	8.65	0.59	0.30	4.72
124	66.0	260.0	8.6	1.2	10.0	50.0	0.50	9.90	4.85	0.49	5.32
125	56.0	210.0	9.9	2.2	8.0	45.0	0.56	12.13	5.35	0.67	10.17
126	48.0	165.0	12.1	0.4	4.0	25.0	0.62	12.51	3.07	0.77	15.53
127	44.0	140.0	12.5	2.5	14.0	55.0	0.39	14.98	8.08	0.58	18.59
128	30.0	85.0	15.0	0.0	10.0	25.0	0.25	15.00	3.68	0.37	26.67
129	20.0	60.0	15.0	0.0	10.0	33.0	0.33	15.01	4.86	0.49	30.35
130	10.0	27.0	15.0	0.0	10.0	27.0	0.27	15.04	3.98	0.40	35.21
131	0.0	0.0	15.1	0.0							39.19
SUBTOTAL					73.0	330.0			39.19	0.54	

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*****
* EL POTENCIAL TEORICO TOTAL DEL RIO ACARI      ES DE 660.4 MW
*
* Y TIENE UNA LONGITUD ACUMULADA DE 339.0 KM
*
* Y UN POTENCIAL ESPECIFICO DE 1.95 MW/KM
*
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POTENCIAL TEORICO DEL RIO ACARI 1/ 9/79

I	L	H	Q	AFQ	OL	OH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE YAURIHUIRI											
1	20.0	4400.0	0.3	0.0							0.00
2	10.0	3900.0	0.6	0.0	10.0	500.0	5.00	0.48	2.38	0.24	2.38
3	0.0	3250.0	0.9	0.0	10.0	650.0	6.50	0.78	4.98	0.50	7.36
SUBTOTAL					20.0	1150.0			7.36	0.37	
=====											
AFLUENTE JOCHANGAY											
4	23.0	4150.0	0.0	0.0							0.00
5	10.0	3575.0	0.6	0.0	13.0	575.0	4.42	0.31	1.74	0.13	1.74
6	0.0	2550.0	1.9	0.0	10.0	1025.0	10.25	1.25	12.58	1.26	14.31
SUBTOTAL					23.0	1600.0			14.31	0.62	
=====											
AFLUENTE SNPEDRO SUP.											
7	38.0	4325.0	0.1	0.0							0.00
8	30.0	4080.0	0.8	0.0	8.0	245.0	3.06	0.46	1.10	0.14	1.10
9	18.0	3800.0	3.0	0.0	12.0	280.0	2.33	1.92	5.26	0.44	6.36
SUBTOTAL					20.0	525.0			6.36	0.32	
=====											
AFLUENTE SNPEDRO INF.											
9	18.0	3800.0	3.0	0.0							0.00
10	10.0	3600.0	3.3	0.0	8.0	200.0	2.50	3.13	6.14	0.77	6.14
11	0.0	2280.0	3.4	0.0	10.0	1320.0	13.20	3.33	43.15	4.31	49.28
SUBTOTAL					18.0	1520.0			49.28	2.74	
=====											
AFLUENTE CHONTAY											
12	17.0	4250.0	0.0	0.0							0.00
13	10.0	3920.0	0.2	0.0	7.0	330.0	4.71	0.13	0.43	0.06	0.43
14	0.0	3310.0	2.5	0.0	10.0	610.0	6.10	1.37	8.19	0.82	8.62
SUBTOTAL					17.0	940.0			8.62	0.51	
=====											
AFLUENTE IRURO A											
15	70.0	4250.0	0.2	0.0							0.00
16	64.0	4225.0	0.8	0.0	6.0	25.0	0.42	0.49	0.12	0.02	0.12
17	54.0	4000.0	2.2	0.0	10.0	225.0	2.25	1.48	3.27	0.33	3.39
18	44.0	3670.0	2.7	0.0	10.0	330.0	3.30	2.46	7.95	0.80	11.34
19	34.0	3310.0	4.8	2.5	10.0	360.0	3.60	3.77	13.31	1.33	24.65
20	27.0	3200.0	7.8	0.0	7.0	110.0	1.57	7.54	8.14	1.16	32.79
SUBTOTAL					43.0	1050.0			32.79	0.76	
=====											
AFLUENTE IRURO B											
20	27.0	3200.0	7.8	0.0							0.00
21	20.0	3175.0	8.9	0.0	7.0	25.0	0.36	8.34	2.04	0.29	2.04
22	10.0	2500.0	9.5	0.0	10.0	675.0	6.75	9.21	60.97	6.10	63.01
23	0.0	2075.0	9.8	0.0	10.0	425.0	4.25	9.67	40.34	4.03	103.35
SUBTOTAL					27.0	1125.0			103.35	3.83	
=====											

POTENCIAL TEORICO DEL RIO ACARI

1/ 9/79

=====
 I L H Q AFG DL DM PE GC POT ESP CUM
 =====

AFLUENTE ACARI A

I	L	H	Q	AFG	DL	DM	PE	GC	POT	ESP	CUM
24	171.0	4400.0	0.4	0.0							0.00
25	164.0	4312.0	0.8	0.0	7.0	88.0	1.26	0.58	0.50	0.07	0.50
26	154.0	3865.0	1.1	0.0	10.0	447.0	4.47	0.92	4.05	0.41	4.55
27	144.0	3250.0	1.6	0.9	10.0	615.0	6.15	1.35	8.12	0.81	12.67
28	139.0	2550.0	2.8	1.9	5.0	700.0	14.00	2.66	18.29	3.66	30.96
29	136.0	2280.0	4.7	3.4	3.0	270.0	9.00	4.73	12.53	4.18	43.49
30	131.0	2075.0	8.2	9.8	5.0	205.0	4.10	8.18	16.45	3.29	59.94
31	119.0	1775.0	19.2	0.0	12.0	300.0	2.50	18.60	54.74	4.56	114.68
32	109.0	1585.0	19.7	0.0	10.0	190.0	1.90	19.42	36.20	3.62	150.87
33	99.0	1370.0	19.9	0.0	10.0	215.0	2.15	19.79	41.75	4.18	192.62
34	89.0	1104.0	20.1	0.0	10.0	266.0	2.66	20.04	52.30	5.23	244.92
35	79.0	870.0	20.8	0.0	10.0	234.0	2.34	20.48	47.01	4.70	291.94
36	69.0	695.0	19.5	0.0	10.0	175.0	1.75	20.15	34.60	3.46	326.53
37	59.0	515.0	17.9	0.0	10.0	180.0	1.80	18.67	32.97	3.30	359.50
38	49.0	350.0	16.0	0.0	10.0	165.0	1.65	16.90	27.36	2.74	386.87
39	39.0	235.0	14.6	0.0	10.0	115.0	1.15	15.28	17.23	1.72	404.10
40	25.0	125.0	14.9	0.0	14.0	110.0	0.79	14.75	15.92	1.14	420.02
SUBTOTAL					146.0	4275.0			420.02	2.88	

AFLUENTE ACARI B

40	25.0	125.0	14.9	0.0							0.00
41	5.0	20.0	14.9	0.0	20.0	105.0	0.52	14.92	15.37	0.77	15.37
42	0.0	0.0	15.0	0.0	5.0	20.0	0.40	14.95	2.93	0.59	18.31
SUBTOTAL					25.0	125.0			18.31	0.73	

 * EL POTENCIAL TEORICO TOTAL DEL RIO YAUCA ES DE 298.3 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 357.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 0.84 MW/KM *

POTENCIAL TEORICO DEL RIO YAUCA 1/ 4/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
AFLUENTE PARARMAYO											
1	55.0	4450.0	0.0	0.0	5.0	815.0	16.30	0.12	1.00	0.20	0.00
2	50.0	3635.0	0.2	0.0	10.0	305.0	3.05	0.52	1.55	0.15	1.00
3	40.0	3330.0	0.8	0.0	10.0	160.0	1.60	0.90	1.41	0.14	2.55
4	30.0	3170.0	1.0	0.0	10.0	335.0	3.35	1.37	4.50	0.45	3.96
5	20.0	2835.0	1.8	0.0	10.0	1305.0	13.05	1.87	23.97	2.40	8.46
6	10.0	1530.0	2.0	0.0	10.0	623.0	6.23	2.04	12.49	1.25	32.43
7	0.0	907.0	2.1	0.0							44.92
SUBTOTAL					55.0	3543.0			44.92	0.82	
AFLUENTE LANGUIRE											
8	62.0	3760.0	0.0	0.0	12.0	367.0	3.06	0.10	0.37	0.03	0.00
9	50.0	3393.0	0.2	0.0	10.0	321.0	3.21	0.23	0.73	0.07	0.37
10	40.0	3072.0	0.3	0.0	10.0	414.0	4.14	0.33	1.32	0.13	1.09
11	30.0	2658.0	0.4	0.0	10.0	541.0	5.41	0.43	2.29	0.23	2.42
12	20.0	2117.0	0.5	0.0	10.0	797.0	7.97	0.52	4.03	0.40	4.71
13	10.0	1320.0	0.6	0.0	10.0	779.0	7.79	0.60	4.56	0.46	8.74
14	0.0	541.0	0.6	0.0							13.30
SUBTOTAL					62.0	3219.0			13.30	0.21	
AFLUENTE ACAVILLE											
15	63.0	3920.0	0.0	0.0	13.0	820.0	6.31	0.05	0.41	0.03	0.00
16	50.0	3100.0	0.1	0.0	10.0	658.0	6.58	0.19	1.23	0.12	0.41
17	40.0	2442.0	0.3	0.0	10.0	609.0	6.09	0.35	2.12	0.21	1.64
18	30.0	1833.0	0.4	0.0	10.0	593.0	5.93	0.50	2.92	0.29	3.76
19	20.0	1240.0	0.6	0.0	10.0	405.0	4.05	0.62	2.45	0.25	6.68
20	10.0	835.0	0.7	0.0	10.0	510.0	5.10	0.66	3.30	0.33	9.13
21	0.0	325.0	0.7	0.0							12.43
SUBTOTAL					63.0	3595.0			12.43	0.20	

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I	L	H	Q	AFQ	DL	QH	PE	QC	POT	ESP	CUM
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AFLUENTE YAUCA A

22	177.0	4540.0	0.1	0.0							0.00
23	168.0	4310.0	0.7	0.0	9.0	230.0	2.56	0.41	0.92	0.10	0.92
24	158.0	3835.0	1.2	0.0	10.0	475.0	4.75	0.97	4.54	0.45	5.46
25	148.0	3490.0	1.5	0.0	10.0	345.0	3.45	1.40	4.72	0.47	10.19
26	138.0	3340.0	2.3	0.0	10.0	150.0	1.50	1.94	2.86	0.29	13.05
27	128.0	2491.0	4.2	0.0	10.0	849.0	8.49	3.25	27.08	2.71	40.12
28	118.0	2091.0	5.2	0.0	10.0	400.0	4.00	4.69	18.41	1.84	58.53
29	108.0	1788.0	5.6	0.0	10.0	305.0	3.03	5.41	16.08	1.61	74.61
30	98.0	1615.0	7.0	0.0	10.0	173.0	1.73	6.28	10.66	1.07	85.27
31	88.0	1470.0	7.3	0.0	10.0	245.0	2.45	7.14	17.16	1.72	102.43
32	78.0	1150.0	7.5	0.0	10.0	220.0	2.20	7.41	15.99	1.60	118.42
33	68.0	907.0	7.8	2.1	6.0	159.0	2.52	9.91	18.22	1.82	136.64
34	62.0	768.0	9.9	0.0	10.0	198.0	1.98	9.96	13.51	2.25	150.15
35	52.0	570.0	10.0	0.0					19.35	1.94	169.50
SUBTOTAL					125.0	3970.0			169.50	1.36	

AFLUENTE YAUCA B

35	52.0	570.0	10.0	0.0							0.00
36	49.0	541.0	10.0	0.6	3.0	29.0	0.97	10.00	2.85	0.95	2.85
37	43.0	466.0	10.7	0.0	6.0	75.0	1.25	10.67	7.85	1.31	10.69
38	33.0	325.0	9.5	0.7	10.0	141.0	1.41	10.10	13.97	1.40	24.66
39	25.0	205.0	10.4	0.0	8.0	120.0	1.50	10.29	12.11	1.51	36.78
SUBTOTAL					27.0	365.0			36.78	1.36	

AFLUENTE YAUCA C

39	25.0	205.0	10.4	0.0							0.00
40	20.0	130.0	10.5	0.0	5.0	75.0	1.50	10.44	7.68	1.54	7.68
41	10.0	46.0	10.8	0.0	10.0	84.0	0.84	10.64	8.77	0.88	16.45
42	0.0	0.0	10.9	0.0	10.0	46.0	0.46	10.83	4.89	0.49	21.34
SUBTOTAL					25.0	205.0			21.34	0.85	

 * EL POTENCIAL TEORICO TOTAL DEL RIO CHALA ES DE 42.2 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 161.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 0.26 MW/KM *

POTENCIAL TEORICO DEL RIO CHALA 1/ 4/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE HUICHO											
1	22.0	4255.0	0.0	0.0							0.00
2	10.0	2475.0	0.2	0.0	12.0	1780.0	14.83	0.12	2.03	0.17	2.03
3	0.0	1640.0	0.3	0.0	10.0	835.0	8.35	0.23	1.67	0.19	3.90
SUBTOTAL					22.0	2615.0			3.90	0.18	
=====											
AFLUENTE HUANUJUANU											
4	30.0	3800.0	0.0	0.0							0.00
5	20.0	2425.0	0.2	0.0	10.0	1375.0	13.75	0.12	1.62	0.16	1.62
6	10.0	1640.0	0.4	0.3	10.0	785.0	7.85	0.30	2.32	0.23	3.94
7	0.0	1080.0	0.7	0.0	10.0	560.0	5.60	0.64	3.54	0.35	7.48
SUBTOTAL					30.0	2720.0			7.48	0.25	
=====											
AFLUENTE SAN ANDRES											
8	34.0	2860.0	0.0	0.0							0.00
9	20.0	2200.0	0.2	0.0	14.0	660.0	4.71	0.09	0.55	0.04	0.55
10	10.0	1250.0	0.3	0.0	10.0	950.0	9.50	0.23	2.19	0.22	2.74
11	0.0	680.0	0.3	0.0	10.0	570.0	5.70	0.33	1.86	0.19	4.60
SUBTOTAL					34.0	2180.0			4.60	0.14	
=====											
AFLUENTE CHALA											
12	75.0	3950.0	0.0	0.0							0.00
13	63.0	2950.0	0.3	0.0	12.0	1000.0	8.33	0.17	1.64	0.14	1.64
14	53.0	2150.0	0.4	0.0	10.0	800.0	8.00	0.38	2.97	0.30	4.61
15	43.0	1600.0	0.6	0.0	10.0	550.0	5.50	0.50	2.67	0.27	7.28
16	33.0	1080.0	0.6	0.7	10.0	520.0	5.20	0.57	2.90	0.29	10.19
17	23.0	680.0	1.3	0.3	10.0	400.0	4.00	1.25	4.92	0.49	15.11
18	20.0	548.0	1.6	0.0	3.0	132.0	4.40	1.62	2.10	0.70	17.21
19	10.0	270.0	1.7	0.0	10.0	278.0	2.78	1.65	4.51	0.45	21.72
20	0.0	0.0	1.7	0.0	10.0	270.0	2.70	1.68	4.46	0.45	26.18
SUBTOTAL					75.0	3950.0			26.18	0.35	
=====											

 * EL POTENCIAL TEORICO TOTAL DEL RIO CHAPARRA . ES DE 67.2 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 141.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 0.48 MW/KM *

POTENCIAL TEORICO DEL RIO CHAPARRA 1/ 4/79

I	L	H	Q	AFQ	DL	DH	PE	OC	POT	ESP	CUM
=====											
AFLUENTE VIUCO											
1	20.0	3750.0	0.0	0.0	10.0	550.0	5.50	0.04	0.24	0.02	0.00
2	10.0	3200.0	0.1	0.0	10.0	850.0	8.50	0.14	1.15	0.12	0.24
3	0.0	2350.0	0.2	0.0							1.39
SUBTOTAL					20.0	1400.0			1.39	0.07	
=====											
AFLUENTE PUICUTO											
4	30.0	3750.0	0.0	0.0	10.0	250.0	2.50	0.31	0.77	0.08	0.00
5	20.0	3500.0	0.6	0.0	10.0	230.0	2.30	0.70	1.58	0.16	0.77
6	10.0	3270.0	0.8	0.0	10.0	1345.0	13.45	0.89	11.76	1.18	2.35
7	0.0	1925.0	1.0	0.0							14.12
SUBTOTAL					30.0	1825.0			14.12	0.47	
=====											
AFLUENTE CHAPARRA											
8	91.0	3925.0	0.0	0.0	5.0	295.0	5.90	0.03	0.08	0.02	0.00
9	86.0	3630.0	0.0	0.0	10.0	530.0	5.30	0.16	0.86	0.09	0.08
10	76.0	3100.0	0.3	0.0	10.0	750.0	7.50	0.45	3.31	0.33	0.93
11	66.0	2350.0	0.6	0.2	10.0	425.0	4.25	0.89	3.69	0.37	4.24
12	56.0	1925.0	1.0	1.0	6.0	275.0	4.58	2.01	5.43	0.91	7.93
13	50.0	1650.0	2.1	0.0	10.0	450.0	4.50	2.15	9.50	0.95	13.36
14	40.0	1200.0	2.2	0.0	10.0	380.0	3.80	2.34	8.72	0.87	22.86
15	30.0	820.0	2.4	0.0	10.0	290.0	2.90	2.46	6.99	0.70	31.58
16	20.0	530.0	2.5	0.0	10.0	275.0	2.75	2.48	6.70	0.67	38.57
17	10.0	255.0	2.5	0.0	10.0	255.0	2.55	2.55	6.39	0.64	45.27
18	0.0	0.0	2.6	0.0							51.66
SUBTOTAL					91.0	3925.0			51.66	0.57	
=====											

 * EL POTENCIAL TEORICO TOTAL DEL RIO ATICO ES DE 31.7 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 151.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 0.21 MW/KM *

POTENCIAL TEORICO DEL RIO ATICO 1/ 4/79

L	H	Q	AFQ	DL	DH	PE	PC	POT	ESP	CUM	
AFLUENTE HOINLLU											
1	52.0	3250.0	0.0	0.0	12.0	495.0	4.12	0.05	0.26	0.02	0.00
2	20.0	2755.0	0.1	0.0	10.0	450.0	4.30	0.21	0.88	0.09	0.26
3	10.0	2325.0	0.3	0.0	10.0	700.0	7.00	0.45	3.06	0.31	1.14
4	0.0	1625.0	0.6	0.0							4.20
SUBTOTAL					32.0	1625.0			4.20	0.13	
AFLUENTE SANURRIAS											
5	29.0	2055.0	0.0	0.0	9.0	322.0	3.58	0.01	0.03	0.00	0.00
6	20.0	1753.0	0.0	0.0	10.0	396.0	3.96	0.03	0.11	0.01	0.03
7	10.0	1337.0	0.0	0.0	10.0	964.0	9.64	0.05	0.45	0.04	0.14
8	0.0	373.0	0.1	0.0							0.58
SUBTOTAL					29.0	1682.0			0.58	0.02	
AFLUENTE ATICO											
9	90.0	3582.0	0.0	0.0	9.0	357.0	3.97	0.04	0.13	0.01	0.00
10	81.0	3225.0	0.1	0.0	10.0	180.0	1.80	0.11	0.20	0.02	0.13
11	71.0	3045.0	0.2	0.0	10.0	495.0	4.95	0.24	1.16	0.12	0.32
12	61.0	2550.0	0.3	0.0	10.0	925.0	9.25	0.40	3.61	0.36	1.48
13	51.0	1625.0	0.5	0.6	10.0	575.0	5.75	1.11	4.07	0.41	5.09
14	41.0	1250.0	1.2	0.0	10.0	314.0	3.14	1.30	4.00	0.40	9.16
15	31.0	956.0	1.4	0.0	10.0	267.0	2.67	1.44	3.76	0.38	13.16
16	21.0	669.0	1.5	0.0	10.0	296.0	2.96	1.47	4.27	0.43	16.93
17	11.0	373.0	1.5	0.1	11.0	373.0	3.39	1.55	5.68	0.52	21.20
18	0.0	0.0	1.6	0.0							26.88
SUBTOTAL					90.0	3582.0			26.88	0.30	

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* EL POTENCIAL TEORICO TOTAL DEL RIO CARAVELI ES DE 75.2 MW *
* Y TIENE UNA LONGITUD ACUMULADA DE 196.0 KM *
* Y UN POTENCIAL ESPECIFICO DE 0.38 MW/KM *
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POTENCIAL TEORICO DEL RIO CARAVELI 1/ 4/79

I	L	H	Q	AFQ	DL	DM	PE	QC	POT	ESP	CUM
=====											
AFLUENTE GRND OCORURO											
1	28.0	4200.0	0.0	0.0	8.0	885.0	11.06	0.02	0.19	0.02	0.00
2	20.0	3315.0	0.0	0.0	10.0	320.0	3.20	0.13	0.40	0.04	0.19
3	10.0	2995.0	0.2	0.0	10.0	415.0	4.15	0.27	1.08	0.11	0.59
4	0.0	2580.0	0.3	0.0							1.67
SUBTOTAL					28.0	1620.0			1.67	0.06	
=====											
AFLUENTE CHUICANE											
5	28.0	4500.0	0.0	0.0	8.0	1270.0	15.87	0.03	0.36	0.05	0.00
6	20.0	3230.0	0.1	0.0	10.0	636.0	6.36	0.12	0.77	0.08	0.36
7	10.0	2594.0	0.2	0.0	10.0	937.0	9.37	0.29	2.71	0.27	1.13
8	0.0	1657.0	0.4	0.0							3.84
SUBTOTAL					28.0	2843.0			3.84	0.14	
=====											
AFLUENTE CARAVELI											
9	140.0	4520.0	0.0	0.0	5.0	570.0	11.40	0.04	0.23	0.05	0.00
10	135.0	3950.0	0.1	0.0	10.0	559.0	5.59	0.11	0.61	0.06	0.23
11	125.0	3391.0	0.1	0.0	10.0	191.0	1.91	0.34	0.64	0.06	0.84
12	115.0	3200.0	0.5	0.0	10.0	225.0	2.25	0.57	1.26	0.13	1.49
13	105.0	2975.0	0.6	0.0	10.0	395.0	3.95	0.69	2.67	0.27	2.74
14	95.0	2580.0	0.8	0.3	9.0	705.0	7.83	1.51	10.42	1.16	5.41
15	86.0	1875.0	1.9	0.0	10.0	218.0	2.18	2.15	4.60	0.46	15.84
16	76.0	1657.0	2.4	0.4	6.0	82.0	1.37	2.80	2.25	0.38	20.44
17	70.0	1575.0	2.8	0.0	10.0	117.0	1.17	2.85	3.27	0.33	22.70
18	60.0	1458.0	2.9	0.0	10.0	186.0	1.86	2.94	5.36	0.54	25.97
19	50.0	1272.0	3.0	0.0	10.0	192.0	1.92	3.01	5.66	0.57	31.33
20	40.0	1080.0	3.0	0.0	10.0	400.0	4.00	3.05	11.98	1.20	36.99
21	30.0	680.0	3.1	0.0	10.0	290.0	2.90	3.08	8.77	0.88	48.96
22	20.0	390.0	3.1	0.0	10.0	310.0	3.10	3.12	9.48	0.95	57.74
23	10.0	80.0	3.1	0.0	10.0	80.0	0.80	3.14	2.47	0.25	67.22
24	0.0	0.0	3.1	0.0							69.69
SUBTOTAL					140.0	4520.0			69.69	0.50	
=====											

 * EL POTENCIAL TEORICO TOTAL DEL RIO OCUNTA ES DE 5248.4 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 1430.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 2.27 MW/KM *

POTENCIAL TEORICO DEL RIO OCUNTA 1/ 4/79

I	L	H	Q	AFQ	DL	DH	PE	GC	POT	ESP	CUM
=====											
AFLUENTE PARARANI											
1	16.0	4650.0	0.0	0.0							0.00
2	10.0	4350.0	0.3	0.0	6.0	300.0	5.00	0.19	0.57	0.09	0.57
3	0.0	3900.0	0.8	0.0	10.0	450.0	4.50	0.59	2.61	0.26	3.17
SUBTOTAL					16.0	750.0			3.17	0.20	
=====											
AFLUENTE HUACSAPALLCA											
4	37.0	4600.0	0.0	0.0							0.00
5	30.0	4350.0	0.4	0.0	7.0	270.0	3.86	0.21	0.57	0.08	0.57
6	20.0	4150.0	0.8	0.0	10.0	180.0	1.80	0.63	1.11	0.11	1.67
7	10.0	3850.0	2.0	0.0	10.0	300.0	3.00	1.42	4.18	0.42	5.85
8	0.0	3380.0	2.1	0.0	10.0	470.0	4.70	2.08	9.57	0.96	15.42
SUBTOTAL					37.0	1220.0			15.42	0.42	
=====											
AFLUENTE PAUCACORRAL											
9	23.0	4475.0	0.0	0.0							0.00
10	10.0	4140.0	0.6	0.0	13.0	335.0	2.58	0.28	0.93	0.07	0.93
11	0.0	3775.0	1.1	0.0	10.0	365.0	3.65	0.85	3.05	0.30	3.97
SUBTOTAL					23.0	700.0			3.97	0.17	
=====											
AFLUENTE PISQUICOCHA											
12	36.0	4500.0	0.1	0.0							0.00
13	30.0	4365.0	0.2	0.0	6.0	135.0	2.25	0.15	0.20	0.03	0.20
14	21.0	4140.0	0.6	0.0	9.0	225.0	2.50	0.45	0.95	0.11	1.14
15	11.0	3775.0	0.8	1.1	10.0	365.0	3.65	0.71	2.53	0.25	3.67
16	0.0	3150.0	2.1	0.0	11.0	625.0	5.68	2.03	12.42	1.13	16.09
SUBTOTAL					36.0	1350.0			16.09	0.45	
=====											
AFLUENTE LULLOTA											
17	23.0	4550.0	0.0	0.0							0.00
18	10.0	3900.0	0.5	0.0	13.0	650.0	5.00	0.26	1.67	0.13	1.67
19	0.0	3040.0	1.1	0.0	10.0	860.0	8.60	0.81	6.82	0.68	8.49
SUBTOTAL					23.0	1510.0			8.49	0.37	
=====											
AFLUENTE PACCHICHACA											
20	30.0	4250.0	0.0	0.0							0.00
21	20.0	3980.0	0.2	0.0	10.0	270.0	2.70	0.12	0.32	0.03	0.32
22	10.0	3750.0	1.0	0.0	10.0	230.0	2.30	0.59	1.33	0.13	1.64
23	0.0	2980.0	1.2	0.0	10.0	770.0	7.70	1.10	8.31	0.83	9.95
SUBTOTAL					30.0	1270.0			9.95	0.33	
=====											

POTENCIAL TEORICO DEL RIO OCONA

1/ 4/79

I	L	H	Q	AFO	DL	DM	PE	UC	POT	ESP	CUM	
=====												
AFLUENTE CALPAMAYO												
24	64.0	4500.0	0.0	0.0							0.00	
25	56.0	4180.0	0.3	0.0	8.0	320.0	4.00	0.18	0.56	0.07	0.56	
26	46.0	4100.0	0.7	0.0	10.0	80.0	0.80	0.53	0.42	0.04	0.97	
27	36.0	3950.0	2.0	0.0	10.0	150.0	1.50	1.38	2.03	0.20	3.00	
28	26.0	3650.0	2.3	0.0	10.0	300.0	3.00	2.18	6.42	0.64	9.42	
29	16.0	3380.0	3.4	2.1	5.0	230.0	4.60	5.72	12.91	2.58	17.05	
30	11.0	3150.0	5.9	2.1	9.0	110.0	1.22	8.09	8.73	0.97	29.96	
31	2.0	3040.0	8.2	1.1	1.0	60.0	6.00	9.31	5.48	5.48	38.70	
32	1.0	2980.0	9.3	1.2	1.0	30.0	3.00	10.57	3.11	3.11	44.18	
33	0.0	2950.0	10.6	0.0							47.29	
=====												
SUBTOTAL					64.0	1550.0				47.29	0.74	
=====												
AFLUENTE BREAMAYO												
34	30.0	4300.0	0.1	0.0							0.00	
35	20.0	4100.0	0.3	0.0	10.0	200.0	2.00	0.20	0.40	0.04	0.40	
36	10.0	3650.0	0.9	0.0	10.0	450.0	4.50	0.62	2.74	0.27	3.14	
37	0.0	3550.0	1.2	0.0	10.0	100.0	1.00	1.04	1.02	0.10	4.16	
=====												
SUBTOTAL					30.0	750.0				4.16	0.14	
=====												
AFLUENTE PARARCA												
38	74.0	4380.0	0.0	0.0							0.00	
39	70.0	4180.0	0.2	0.0	4.0	200.0	5.00	0.10	0.20	0.05	0.20	
40	60.0	3800.0	0.6	0.0	10.0	380.0	3.80	0.39	1.45	0.14	1.65	
41	50.0	3550.0	0.8	1.2	10.0	250.0	2.50	0.69	1.68	0.17	3.33	
42	40.0	3500.0	2.3	0.0	10.0	50.0	0.50	2.15	1.05	0.11	4.38	
43	30.0	3350.0	3.6	0.0	10.0	150.0	1.50	2.96	4.35	0.44	8.73	
44	20.0	3150.0	6.8	0.0	10.0	200.0	2.00	5.19	10.18	1.02	18.91	
45	10.0	2600.0	7.2	0.0	10.0	550.0	5.50	7.02	37.86	3.79	56.78	
46	0.0	1800.0	7.4	0.0	10.0	800.0	8.00	7.53	57.52	5.75	114.30	
=====												
SUBTOTAL					74.0	2580.0				114.30	1.54	

POTENCIAL TEORICO DEL RIO OCONA

1/ 4/19

=====											
I	L	H	Q	AFG	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE HUANCARAMA											
47	22.0	4650.0	0.0	0.0							0.00
48	10.0	4550.0	0.3	0.0	12.0	100.0	0.83	0.18	0.15	0.01	0.18
49	0.0	4400.0	2.1	0.0	10.0	150.0	1.50	1.24	1.82	0.18	2.00
SUBTOTAL					22.0	250.0			2.00	0.09	
AFLUENTE HUANIPACO											
50	9.0	4650.0	0.3	0.0							0.00
51	0.0	3800.0	0.6	0.0	9.0	850.0	9.44	0.45	3.78	0.42	3.78
SUBTOTAL					9.0	850.0			3.78	0.42	
AFLUENTE OYOLU											
52	64.0	4700.0	0.0	0.0							0.00
53	51.0	4555.0	0.8	0.0	13.0	145.0	1.12	0.42	0.60	0.05	0.60
54	41.0	4550.0	2.0	0.0	10.0	5.0	0.05	1.42	0.07	0.01	0.67
55	31.0	4400.0	3.7	2.1	10.0	150.0	1.50	2.83	4.16	0.42	4.84
56	23.0	3800.0	6.0	0.6	8.0	600.0	7.50	5.92	34.83	4.35	39.67
57	10.0	2300.0	8.0	0.0	13.0	1500.0	11.54	7.35	108.10	8.32	147.77
58	0.0	1550.0	8.5	0.0	10.0	750.0	7.50	8.23	60.57	8.06	208.54
SUBTOTAL					64.0	3150.0			208.34	3.26	
AFLUENTE CONDORILLO											
59	15.0	5000.0	0.0	0.0							0.00
60	10.0	4700.0	0.1	0.0	5.0	300.0	6.00	0.06	0.16	0.03	0.16
61	0.0	4555.0	0.8	0.0	10.0	145.0	1.45	0.45	0.64	0.06	0.80
SUBTOTAL					15.0	445.0			0.80	0.05	
AFLUENTE ECMA											
62	14.0	4900.0	0.2	0.0							0.00
63	10.0	4850.0	0.3	0.0	4.0	50.0	1.25	0.25	0.12	0.03	0.12
64	0.0	4350.0	0.3	0.0	10.0	500.0	5.00	0.29	1.44	0.14	1.57
SUBTOTAL					14.0	550.0			1.57	0.11	
AFLUENTE CACHAYCO											
65	24.0	4900.0	0.1	0.0							0.00
66	20.0	4700.0	0.2	0.0	4.0	200.0	5.00	0.14	0.27	0.07	0.27
67	10.0	4500.0	1.3	0.0	10.0	200.0	2.00	0.74	1.44	0.14	1.72
68	0.0	4100.0	2.5	0.0	10.0	400.0	4.00	1.89	7.42	0.74	9.13
SUBTOTAL					24.0	800.0			9.13	0.38	
AFLUENTE AGUAS CALIEN											
69	34.0	4800.0	0.0	0.0							0.00
70	30.0	4700.0	0.2	0.0	4.0	100.0	2.50	0.13	0.13	0.03	0.13
71	20.0	4500.0	2.1	0.0	10.0	200.0	2.00	1.14	2.25	0.22	2.38
72	10.0	4300.0	2.8	0.0	10.0	200.0	2.00	2.42	4.76	0.48	7.15
73	0.0	4080.0	3.4	0.0	10.0	220.0	2.20	3.11	6.71	0.67	13.85
SUBTOTAL					34.0	720.0			13.85	0.41	
AFLUENTE JARHUAYOC											
74	27.0	4950.0	0.0	0.0							0.00
75	20.0	4600.0	0.5	0.0	7.0	350.0	5.00	0.28	0.95	0.14	0.95
76	10.0	4150.0	1.2	0.0	10.0	450.0	4.50	0.85	3.75	0.37	4.69
77	0.0	3700.0	1.9	0.0	10.0	450.0	4.50	1.55	6.82	0.68	11.52
SUBTOTAL					27.0	1250.0			11.52	0.43	

I	L	H	Q	AFLU	UL	OH	PE	UC	POT	ESP	CUM
=====											
AFLUENTE HUARCAYA											
78	56.0	4700.0	0.5	0.0	4.0	100.0	2.50	0.69	0.68	0.17	0.00
79	52.0	4600.0	0.8	0.0	10.0	100.0	1.00	1.54	1.51	0.15	0.68
80	42.0	4500.0	2.2	0.0	10.0	100.0	1.00	2.99	2.93	0.29	2.19
81	32.0	4400.0	3.8	0.0	10.0	300.0	3.00	3.99	11.75	1.17	5.12
82	22.0	4100.0	4.2	2.5	1.0	20.0	2.00	6.74	1.32	1.32	16.87
83	21.0	4080.0	6.7	3.4	6.0	380.0	6.33	10.26	38.23	6.37	18.19
84	15.0	3700.0	10.3	1.9	5.0	200.0	4.00	12.45	24.42	4.88	56.42
85	10.0	3500.0	12.6	0.0	10.0	500.0	5.00	12.74	62.49	6.25	80.84
86	0.0	3000.0	12.9	0.0							143.32
SUBTOTAL					56.0	1700.0			143.32	2.56	
=====											
AFLUENTE HUANCOCYOOC											
87	13.0	4950.0	0.0	0.0	13.0	700.0	5.38	0.06	0.42	0.03	0.00
88	0.0	4250.0	0.1	0.0							0.42
SUBTOTAL					13.0	700.0			0.42	0.03	
=====											
AFLUENTE CUNOCANEO											
89	11.0	4850.0	0.0	0.0	11.0	650.0	5.91	0.29	1.86	0.17	0.00
90	0.0	4200.0	0.6	0.0							1.86
SUBTOTAL					11.0	650.0			1.86	0.17	
=====											
AFLUENTE PAMPAMARCA											
91	54.0	4700.0	0.0	0.0	9.0	150.0	1.67	0.28	0.41	0.05	0.00
92	45.0	4550.0	0.6	0.0	10.0	100.0	1.00	1.16	1.14	0.11	0.41
93	35.0	4450.0	1.8	0.0	11.0	200.0	1.82	2.35	4.56	0.41	1.56
94	24.0	4250.0	2.9	0.1	2.0	50.0	2.50	2.99	1.47	0.73	6.12
95	22.0	4200.0	3.0	0.6	12.0	1050.0	8.75	4.33	44.55	3.71	7.59
96	10.0	3150.0	5.1	0.0	10.0	750.0	7.50	5.19	38.20	3.82	52.14
97	0.0	2400.0	5.3	0.0							90.33
SUBTOTAL					54.0	2300.0			90.33	1.67	
=====											
AFLUENTE CRUZPATA											
98	25.0	4800.0	0.0	0.0	5.0	200.0	4.00	0.09	0.18	0.04	0.00
99	20.0	4600.0	0.2	0.0	10.0	350.0	3.50	0.33	1.14	0.11	0.18
100	10.0	4250.0	0.5	0.0	10.0	2050.0	20.50	0.64	12.92	1.29	1.32
101	0.0	2200.0	0.8	0.0							14.24
SUBTOTAL					25.0	2600.0			14.24	0.57	
=====											
AFLUENTE CHUQUIBAMBA											
102	13.0	4400.0	0.0	0.0	13.0	2650.0	20.38	0.25	6.48	0.50	0.00
103	0.0	1750.0	0.5	0.0							6.48
SUBTOTAL					13.0	2650.0			6.48	0.50	
=====											
AFLUENTE PUCAMANTA											
104	17.0	5000.0	0.0	0.0	7.0	1400.0	20.00	0.09	1.17	0.17	0.00
105	10.0	3600.0	0.1	0.0	10.0	2000.0	20.00	0.21	4.11	0.41	1.17
106	0.0	1600.0	0.3	0.0							5.28
SUBTOTAL					17.0	3400.0			5.28	0.31	

POTENCIAL TEORICO DEL RIO OCONA

1/ 4/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM	
=====												
AFLUENTE COTAHUASI												
107	148.0	4900.0	0.0	0.0							0.00	
108	137.0	4555.0	1.1	0.8	11.0	345.0	3.14	0.57	1.92	0.17	1.92	
109	133.0	4550.0	2.3	0.0	4.0	5.0	0.12	2.11	0.10	0.03	2.03	
110	123.0	4450.0	3.4	0.0	10.0	100.0	1.00	2.88	2.82	0.28	4.85	
111	113.0	4350.0	4.0	0.3	10.0	100.0	1.00	3.73	3.66	0.37	8.51	
112	108.0	4200.0	4.7	0.0	5.0	150.0	3.00	4.51	6.64	1.33	15.15	
113	98.0	3750.0	6.3	0.0	10.0	450.0	4.50	5.48	24.19	2.42	39.33	
114	88.0	3000.0	7.1	12.9	10.0	750.0	7.50	6.69	49.26	4.93	88.59	
115	78.0	2750.0	21.5	0.0	10.0	250.0	2.50	20.76	50.91	5.09	139.50	
116	68.0	2600.0	22.6	0.0	10.0	150.0	1.50	22.08	32.49	3.25	171.99	
117	58.0	2400.0	22.8	5.3	10.0	200.0	2.00	22.71	44.56	4.46	216.56	
118	53.0	2200.0	28.9	0.8	5.0	200.0	4.00	28.50	55.91	11.18	272.47	
119	40.0	1750.0	31.6	0.5	13.0	450.0	3.46	30.66	135.34	10.41	407.81	
120	35.0	1600.0	32.1	0.3	5.0	150.0	3.00	32.10	47.23	9.45	455.04	
121	30.0	1500.0	32.9	0.0	5.0	100.0	2.00	32.63	32.01	6.40	487.05	
122	20.0	1300.0	33.1	0.0	10.0	200.0	2.00	33.01	64.76	6.48	551.81	
123	10.0	1100.0	33.4	0.0	10.0	200.0	2.00	33.27	65.27	6.53	617.08	
124	0.0	950.0	33.5	0.0	10.0	150.0	1.50	33.46	49.24	4.92	666.32	
=====												
SUBTOTAL					148.0	3950.0			666.32	4.50		
=====												
AFLUENTE CHORRILLOS												
125	15.0	4650.0	0.6	0.0							0.00	
126	10.0	4600.0	0.9	0.0	5.0	50.0	1.00	0.76	0.37	0.07	0.37	
127	0.0	4350.0	1.2	0.0	10.0	250.0	2.50	1.09	2.67	0.27	3.04	
=====												
SUBTOTAL					15.0	300.0			3.04	0.20		
=====												
AFLUENTE COLPAHUAICO												
128	15.0	4950.0	0.4	0.0							0.00	
129	10.0	4600.0	0.5	0.0	5.0	350.0	7.00	0.48	1.65	0.33	1.65	
130	0.0	4349.0	1.4	0.0	10.0	251.0	2.51	0.98	2.42	0.24	4.08	
=====												
SUBTOTAL					15.0	601.0			4.08	0.27		
=====												
AFLUENTE CELAMAYO												
131	19.0	4150.0	0.1	0.0							0.00	
132	10.0	2400.0	0.3	0.0	9.0	1750.0	19.44	0.22	3.75	0.42	3.75	
133	0.0	1550.0	0.7	0.0	10.0	850.0	8.50	0.53	4.40	0.44	8.15	
=====												
SUBTOTAL					19.0	2600.0			8.15	0.43		

I	L	H	G	AFG	DI	DH	PE	QC	POT	ESP	CI
=====											
AFLUENTE ARMA SUP											
134	85.0	4850.0	0.0	0.0	10.0	45.0	0.45	0.45	0.20	0.02	0.00
135	75.0	4805.0	0.9	0.0	10.0	355.0	3.55	1.01	3.53	0.35	0.20
136	65.0	4450.0	1.2	0.0	10.0	100.0	1.00	2.79	2.74	0.27	3.73
137	55.0	4350.0	4.4	1.2	2.0	1.0	0.05	5.70	0.06	0.03	6.47
138	53.0	4349.0	5.7	1.0	10.0	249.0	2.49	7.85	19.18	1.92	6.52
139	43.0	4100.0	8.5	0.0	10.0	800.0	8.00	9.34	73.34	7.33	25.70
140	33.0	3300.0	10.1	0.0	2.0	1.0	0.05	10.17	0.10	0.05	99.04
141	31.0	3299.0	10.2	0.0							99.14
SUBTOTAL					54.0	1551.0			99.14	1.84	
=====											
AFLUENTE ARMA INF											
141	31.0	3299.0	10.2	0.0	8.0	899.0	11.24	10.57	93.19	11.65	0.00
142	23.0	2400.0	10.9	0.0	10.0	850.0	8.50	11.17	93.13	9.31	93.19
143	13.0	1550.0	11.4	0.7	3.0	150.0	5.00	12.15	17.88	5.96	186.32
144	10.0	1400.0	12.2	0.0	10.0	482.0	4.82	12.20	58.03	5.80	204.20
145	0.0	915.0	12.2	0.0							262.22
SUBTOTAL					31.0	2304.0			262.22	8.46	
=====											
AFLUENTE CHALHUANE											
146	58.0	4650.0	0.0	0.0	8.0	450.0	5.62	0.06	0.25	0.03	0.00
147	50.0	4200.0	0.1	0.0	10.0	400.0	4.00	0.21	0.84	0.08	0.25
148	40.0	3800.0	0.3	0.0	10.0	430.0	4.30	0.43	1.82	0.18	1.09
149	30.0	3370.0	0.5	0.0	10.0	1170.0	11.70	0.62	7.12	0.71	2.91
150	20.0	2200.0	0.7	0.0	10.0	850.0	8.50	0.77	6.39	0.64	10.02
151	10.0	1350.0	0.8	0.0	10.0	370.0	3.70	0.89	3.23	0.32	16.41
152	0.0	980.0	0.9	0.0							19.65
SUBTOTAL					58.0	3670.0			19.65	0.34	
=====											
AFLUENTE CHURUNGA											
153	70.0	5000.0	0.1	0.0	5.0	350.0	7.00	0.14	0.49	0.10	0.00
154	65.0	4650.0	0.2	0.0	10.0	500.0	5.00	0.36	1.77	0.18	0.49
155	55.0	4150.0	0.5	0.0	10.0	550.0	5.50	0.80	4.32	0.43	2.27
156	45.0	3600.0	1.1	0.0	10.0	900.0	9.00	1.33	11.71	1.17	6.59
157	35.0	2700.0	1.6	0.0	10.0	1120.0	11.20	1.70	18.67	1.87	18.30
158	25.0	1580.0	1.8	0.0	10.0	600.0	6.00	1.85	10.90	1.09	36.96
159	15.0	980.0	1.9	0.9	5.0	230.0	4.60	2.82	6.37	1.27	47.86
160	10.0	750.0	2.8	0.0	10.0	300.0	3.00	2.95	8.68	0.87	54.23
161	0.0	450.0	3.1	0.0							62.92
SUBTOTAL					70.0	4550.0			62.92	0.90	

I	L	H	Q	AFI	DL	DM	PE	QL	PLI	PLP	CUM
AFLUENTE OCONA SUP											
162	289.0	4830.0	0.2	0.0	5.0	210.0	4.20	0.64	1.32	0.26	0.00
163	284.0	4620.0	1.1	0.0	10.0	220.0	2.20	1.33	2.87	0.29	1.32
164	274.0	4400.0	1.5	0.0	10.0	200.0	2.00	2.66	5.21	0.52	4.19
165	264.0	4200.0	3.8	0.0	10.0	200.0	2.00	4.46	8.74	0.87	9.40
166	254.0	4000.0	5.1	0.0	10.0	100.0	1.00	5.72	5.61	0.56	18.15
167	244.0	3900.0	6.3	0.8	10.0	300.0	3.00	7.24	21.45	2.15	23.75
168	234.0	3600.0	7.5	0.0	10.0	300.0	3.00	7.69	22.63	2.26	45.21
169	224.0	3300.0	7.9	0.0	10.0	350.0	3.50	7.93	27.23	2.72	67.84
170	214.0	2950.0	7.9	10.6	8.0	50.0	0.62	18.62	9.13	1.14	95.07
171	206.0	2900.0	18.7	0.0	10.0	300.0	3.00	19.28	56.75	5.67	104.21
172	196.0	2600.0	19.8	0.0	10.0	220.0	2.20	19.94	45.04	4.30	160.95
173	186.0	2380.0	20.1	0.0	10.0	305.0	3.05	20.40	61.04	6.10	203.99
174	176.0	2075.0	20.7	0.0	10.0	275.0	2.75	20.84	56.21	5.62	265.04
175	166.0	1800.0	20.9	7.4	7.0	250.0	3.57	28.42	69.69	9.96	321.25
176	159.0	1550.0	28.5	8.5	4.0	50.0	1.25	36.96	18.13	4.53	390.94
177	155.0	1500.0	37.0	0.0	10.0	200.0	2.00	37.25	73.08	7.31	409.07
178	145.0	1300.0	37.5	0.0	10.0	150.0	1.50	37.94	55.83	5.58	482.16
179	135.0	1150.0	38.4	0.0	10.0	150.0	1.50	38.76	57.03	5.70	537.98
180	125.0	1000.0	39.1	0.0	10.0	50.0	0.50	39.23	19.24	1.92	595.01
181	115.0	950.0	39.3	33.5	4.0	35.0	0.87	72.85	25.01	6.25	614.26
182	111.0	915.0	72.9	12.2	4.0	15.0	0.37	85.09	12.52	3.13	639.27
183	107.0	900.0	85.1	0.0	10.0	150.0	1.50	85.27	125.47	12.55	651.79
184	97.0	750.0	85.4	0.0	10.0	100.0	1.00	85.64	84.01	8.40	777.26
185	87.0	650.0	85.8	0.0	10.0	50.0	0.50	86.19	42.28	4.23	861.27
186	77.0	600.0	86.5	0.0	10.0	150.0	1.50	86.57	127.38	12.74	903.55
187	67.0	450.0	86.6	3.1	7.0	50.0	0.71	87.17	42.76	6.11	1030.93
188	60.0	400.0	84.7	0.0	10.0	50.0	0.50	84.73	41.56	4.16	1073.69
189	50.0	350.0	84.8	0.0	10.0	100.0	1.00	84.80	83.19	8.32	1115.25
190	40.0	250.0	84.8	0.0	10.0	100.0	1.00	82.37	80.80	8.08	1198.44
191	30.0	150.0	79.9	0.0	10.0	50.0	0.50	77.44	37.98	3.80	1279.24
192	20.0	100.0	75.0	0.0	10.0	50.0	0.50	72.47	35.55	3.55	1317.22
193	10.0	50.0	70.0	0.0	6.0	36.0	0.60	69.99	24.72	4.12	1352.77
194	4.0	14.0	70.0	0.0							1377.49
SUBTOTAL					285.0	4816.0			1377.49	4.83	
AFLUENTE OCONA INF											
194	4.0	14.0	70.0	0.0	4.0	14.0	0.35	70.00	9.61	2.40	0.00
195	0.0	0.0	70.0	0.0							9.61
SUBTOTAL					4.0	14.0			9.61	2.40	

 * EL POTENCIAL TEORICO TOTAL DEL RIO MAJES ES DE 2910.1 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 1039.0 KM *
 * UN POTENCIAL ESPECIFICO DE 2.80 MW/KM *

POTENCIAL TEORICO DEL RIO MAJES 1/ 9/79

I	L	H	W	AFQ	DL	DH	PE	UC	PUT	ESP	CUM
=====											
AFLUENTE ANTASALLA											
1	14.0	4725.0	0.0	0.0	13.0	275.0	2.12	0.29	0.78	0.06	0.00
2	1.0	4450.0	0.5	0.0	1.0	28.0	2.80	0.55	0.15	0.15	0.78
3	0.0	4422.0	0.6	0.0							0.93
SUBTOTAL					14.0	503.0			0.93	0.07	
=====											
AFLUENTE BLANQUILLO											
4	11.0	4500.0	0.0	0.0	10.0	52.0	0.52	0.32	0.16	0.02	0.00
5	11.0	4448.0	0.6	0.0	10.0	38.0	0.38	0.90	0.33	0.03	0.16
6	1.0	4410.0	1.2	0.0	1.0	10.0	1.00	1.18	0.12	0.12	0.50
7	0.0	4400.0	1.2	0.0							0.61
SUBTOTAL					21.0	100.0			0.61	0.03	
=====											
AFLUENTE OSCOLLO											
8	20.0	4450.0	1.8	0.0	10.0	50.0	0.50	1.09	0.53	0.05	0.00
9	10.0	4400.0	0.4	0.0	10.0	98.0	0.98	0.53	0.51	0.05	0.53
10	0.0	4302.0	0.7	0.0							1.04
SUBTOTAL					20.0	148.0			1.04	0.05	
=====											
AFLUENTE JAGUAY SUP											
11	49.0	5000.0	0.0	0.0	11.0	350.0	3.18	0.18	0.60	0.05	0.00
12	38.0	4610.0	0.3	0.0	10.0	40.0	0.40	0.53	0.21	0.02	0.60
13	28.0	4610.0	0.7	0.0	6.0	35.0	0.58	0.70	0.24	0.04	0.81
14	22.0	4575.0	0.7	0.0	10.0	258.0	2.58	0.96	2.44	0.24	1.05
15	12.0	4517.0	1.3	0.0	10.0	15.0	0.15	1.58	0.23	0.02	3.48
16	2.0	4302.0	1.9	0.0	2.0	2.0	0.10	2.64	0.05	0.03	3.72
17	0.0	4300.0	2.7	0.0							3.77
SUBTOTAL					49.0	700.0			3.77	0.08	
=====											
AFLUENTE CONDOROMA											
18	30.0	4750.0	0.1	0.0	10.0	130.0	1.30	0.40	0.51	0.05	0.00
19	20.0	4620.0	0.7	0.0	10.0	180.0	1.80	1.08	1.91	0.19	0.51
20	10.0	4440.0	1.5	0.0	10.0	290.0	2.90	1.62	4.61	0.46	2.41
21	0.0	4150.0	1.8	0.0							7.02
SUBTOTAL					30.0	600.0			7.02	0.23	
=====											
AFLUENTE CHALHUANCA											
22	37.0	4800.0	1.2	0.0	7.0	380.0	5.43	1.48	5.53	0.79	0.00
23	30.0	4420.0	1.8	0.0	10.0	170.0	1.70	1.83	3.04	0.30	5.53
24	20.0	4250.0	1.9	0.0	10.0	100.0	1.00	2.33	2.29	0.23	8.57
25	10.0	4150.0	2.8	0.0	10.0	200.0	2.00	3.21	6.29	0.63	10.86
26	0.0	3950.0	3.6	0.0							17.15
SUBTOTAL					37.0	850.0			17.15	0.46	
=====											
AFLUENTE PULPERA											
27	23.0	4500.0	0.0	0.0	3.0	200.0	6.67	0.02	0.03	0.01	0.00
28	20.0	4300.0	0.0	0.0	10.0	300.0	3.00	0.28	0.83	0.08	0.03
29	10.0	4000.0	0.5	0.0	10.0	100.0	1.00	0.68	0.67	0.07	0.86
30	0.0	3900.0	0.8	0.0							1.53
SUBTOTAL					23.0	600.0			1.53	0.07	

I	L	H	A	AFI	DL	DI	PE	UC	PDT	ESP	CUM
AFLUENTE LLAPA											
31	27.0	4425.0	0.0	0.0	10.0	365.0	3.65	0.32	1.16	0.12	0.00
32	17.0	4060.0	0.6	0.0	10.0	160.0	1.60	0.86	1.34	0.13	1.16
33	7.0	3900.0	1.1	0.8	7.0	102.0	1.46	2.11	2.11	0.30	2.51
34	0.0	3798.0	2.3	0.0							4.62
SUBTOTAL					27.0	627.0			4.62	0.17	
AFLUENTE AJANA SUP											
35	21.0	4743.0	0.0	0.0	6.0	113.0	1.88	0.24	0.27	0.05	0.00
36	15.0	4630.0	0.5	0.0	10.0	150.0	1.50	0.73	1.07	0.11	0.27
37	5.0	4480.0	1.0	0.0							1.34
SUBTOTAL					16.0	263.0			1.34	0.08	
AFLUENTE AJANA INF											
37	5.0	4480.0	1.0	0.0	5.0	70.0	1.40	1.10	0.76	0.15	0.00
38	0.0	4410.0	1.2	0.0							0.76
SUBTOTAL					5.0	70.0			0.76	0.15	
AFLUENTE HUARURO SUP											
39	73.0	4700.0	1.1	0.0	2.0	5.0	0.25	1.32	0.06	0.03	0.00
40	71.0	4695.0	1.5	0.0	10.0	105.0	1.05	2.97	3.06	0.31	0.06
41	61.0	4590.0	4.4	0.0	10.0	90.0	0.90	5.59	4.94	0.49	3.13
42	51.0	4500.0	6.8	0.0	10.0	90.0	0.90	7.57	6.69	0.67	8.07
43	41.0	4410.0	8.4	1.2	1.0	10.0	1.00	9.59	0.94	0.94	14.75
44	40.0	4400.0	9.6	0.0							15.69
SUBTOTAL					33.0	300.0			15.69	0.48	
AFLUENTE HUARURO INF											
44	40.0	4400.0	9.6	0.0	10.0	90.0	0.90	10.34	9.13	0.91	0.00
45	30.0	4310.0	11.1	0.0	10.0	75.0	0.75	13.86	10.20	1.02	9.13
46	20.0	4235.0	16.6	0.0	10.0	435.0	4.35	17.90	76.38	7.64	19.32
47	10.0	3800.0	19.2	0.0	10.0	1750.0	17.50	19.48	334.43	33.44	95.70
48	0.0	2050.0	19.8	0.0							430.13
SUBTOTAL					40.0	2350.0			430.13	10.75	
AFLUENTE HUAMBO											
49	35.0	4445.0	0.1	0.0	5.0	287.0	5.74	0.22	0.62	0.12	0.00
50	30.0	4158.0	0.3	0.0	10.0	658.0	6.58	0.80	5.18	0.52	0.62
51	20.0	3500.0	1.3	0.0	10.0	900.0	9.00	1.63	14.41	1.44	5.80
52	10.0	2600.0	2.0	0.0	10.0	1210.0	12.10	2.12	25.19	2.52	20.21
53	0.0	1390.0	2.3	0.0							45.40
SUBTOTAL					35.0	3055.0			45.40	1.30	
AFLUENTE ORCOPAMPA											
54	36.0	4550.0	0.0	0.0	6.0	150.0	2.50	0.20	0.29	0.05	0.00
55	30.0	4400.0	0.4	0.0	10.0	250.0	2.50	0.65	1.59	0.16	0.29
56	20.0	4150.0	0.9	0.0	10.0	325.0	3.25	1.29	4.11	0.41	1.88
57	10.0	3825.0	1.7	0.0	10.0	125.0	1.25	1.86	2.28	0.23	5.98
58	0.0	3700.0	2.1	0.0							8.26
SUBTOTAL					36.0	850.0			8.26	0.23	

POTENCIAL TEORICO DEL RIO MAJES

1/ 9/79

I	L	H	Q	AFO	DL	DM	PE	QC	POT	ESP	CUM
=====											
AFLUENTE ANDAGUA SUP											
59	112.0	4650.0	0.0	0.0							0.00
60	110.0	4590.0	0.1	0.0	2.0	60.0	3.00	0.04	0.03	0.01	0.03
61	100.0	4452.0	0.7	0.0	10.0	138.0	1.38	0.40	0.54	0.05	0.57
62	90.0	4400.0	1.5	0.0	10.0	52.0	0.52	1.13	0.58	0.06	1.15
63	80.0	4050.0	2.2	0.0	10.0	350.0	3.50	1.84	6.32	0.63	7.47
64	70.0	3850.0	4.4	2.1	10.0	200.0	2.00	3.26	6.40	0.64	13.87
65	60.0	3700.0	6.5	0.0	7.0	150.0	1.50	6.48	9.53	0.95	23.40
66	53.0	3680.0	6.9	0.0	10.0	20.0	0.29	6.69	1.31	0.19	24.71
67	43.0	3650.0	8.2	0.0	10.0	30.0	0.30	7.54	2.22	0.22	26.93
68	33.0	3400.0	8.3	0.0	10.0	250.0	2.50	8.27	20.28	2.03	47.21
69	23.0	3032.0	9.5	0.0	10.0	368.0	3.68	8.92	32.22	5.22	79.43
70	5.0	2000.0	10.0	0.0	18.0	1032.0	5.73	9.77	98.90	5.49	178.33
=====											
SUBTOTAL					107.0	2650.0			176.33	1.67	
=====											
AFLUENTE ANDAGUA INF											
70	5.0	2000.0	10.0	0.0							0.00
71	0.0	1360.0	10.0	0.0	5.0	640.0	12.80	10.00	62.81	12.56	62.81
=====											
SUBTOTAL					5.0	640.0			62.81	12.56	
=====											
AFLUENTE SIHUARPO											
72	30.0	4500.0	0.4	0.0							0.00
73	20.0	3250.0	1.4	0.0	10.0	1250.0	12.50	0.91	11.21	1.12	11.21
74	10.0	2580.0	1.7	0.0	10.0	670.0	6.70	1.58	10.39	1.04	21.60
75	0.0	1500.0	3.0	0.0	10.0	1080.0	10.80	2.37	25.11	2.51	46.71
=====											
SUBTOTAL					30.0	3000.0			46.71	1.56	
=====											
AFLUENTE TAPAZA											
76	37.0	4750.0	0.1	0.0							0.00
77	32.0	3750.0	0.5	0.0	5.0	1000.0	20.00	0.30	2.97	0.59	2.97
78	22.0	2270.0	2.1	0.0	10.0	1480.0	14.80	1.27	18.45	1.85	11.43
79	12.0	1500.0	3.0	3.0	10.0	770.0	7.70	2.52	19.02	1.90	40.45
80	0.0	900.0	6.2	0.0	12.0	600.0	5.00	6.07	35.76	2.98	76.21
=====											
SUBTOTAL					37.0	3850.0			76.21	2.06	
=====											
AFLUENTE BLANCO											
81	53.0	4350.0	0.0	0.0							0.00
82	50.0	4200.0	0.1	0.0	3.0	150.0	5.00	0.03	0.05	0.02	0.05
83	40.0	3930.0	0.1	0.0	10.0	370.0	3.70	0.10	0.36	0.04	0.41
84	30.0	2950.0	0.3	0.0	10.0	880.0	8.80	0.21	1.77	0.18	2.18
85	20.0	2000.0	0.5	0.0	10.0	950.0	9.50	0.36	3.40	0.34	5.58
86	10.0	1200.0	0.5	0.0	10.0	800.0	8.00	0.48	3.75	0.38	9.33
87	0.0	680.0	0.5	0.0	10.0	520.0	5.20	0.50	2.57	0.26	11.91
=====											
SUBTOTAL					53.0	3670.0			11.91	0.22	

POTENCIAL TEORICO DEL RIO MAJES

1/ 9/79

I	L	H	Q	AFQ	DL	DH	PE	GC	POT	ESP	CUM
=====											
AFLUENTE MAJES A											
88	421.0	4600.0	0.1	0.0	4.0	100.0	2.50	0.14	0.14	0.04	0.00
89	417.0	4500.0	0.2	0.0	10.0	25.0	0.25	0.51	0.13	0.01	0.14
90	407.0	4475.0	0.8	0.0	10.0	45.0	0.45	1.15	0.51	0.05	0.27
91	397.0	4430.0	1.5	0.0	5.0	8.0	0.16	1.47	0.12	0.02	0.77
92	392.0	4422.0	1.4	0.6	7.0	2.0	0.03	2.13	0.04	0.01	0.89
93	385.0	4420.0	2.3	0.0	5.0	20.0	0.40	2.32	0.45	0.09	0.93
94	380.0	4400.0	2.4	1.2	17.0	50.0	0.29	3.79	1.86	0.11	1.38
95	363.0	4350.0	4.0	0.0	10.0	50.0	0.50	4.39	2.15	0.22	3.24
96	353.0	4300.0	4.8	2.7	10.0	50.0	0.50	7.51	3.69	0.37	5.39
97	343.0	4250.0	7.6	0.0	11.0	50.0	0.45	7.96	3.91	0.36	9.08
98	332.0	4200.0	8.3	0.0	10.0	50.0	0.50	8.71	4.27	0.43	12.99
99	322.0	4150.0	9.1	1.8	10.0	50.0	0.50	11.59	5.68	0.57	17.26
100	312.0	4100.0	12.3	0.0	1.0	110.0	11.00	14.25	15.38	15.38	22.94
101	311.0	3990.0	16.2	0.0	10.0	40.0	0.40	16.45	6.46	0.65	38.32
102	301.0	3950.0	16.7	3.6	10.0	5.0	0.05	20.32	1.00	0.10	44.77
103	291.0	3945.0	20.3	0.0	10.0	45.0	0.45	21.08	9.31	0.93	45.77
104	281.0	3900.0	21.8	0.0	1.0	50.0	5.00	22.20	10.89	10.89	55.08
105	280.0	3850.0	22.6	0.0	1.0	50.0	5.00	22.88	11.22	11.22	65.97
106	279.0	3800.0	23.2	0.0							77.19
SUBTOTAL					142.0	800.0			77.19	0.54	
=====											
AFLUENTE MAJES B											
106	279.0	3800.0	23.2	0.0	10.0	2.0	0.02	23.21	0.46	0.05	0.00
107	269.0	3798.0	23.2	2.3	10.0	3.0	0.03	25.53	0.75	0.08	0.46
108	259.0	3795.0	25.5	0.0	10.0	75.0	0.75	27.07	14.92	1.99	1.21
109	249.0	3720.0	28.6	0.0	10.0	100.0	1.00	29.26	28.71	2.87	21.12
110	239.0	3620.0	29.9	0.0	10.0	220.0	2.20	30.89	66.66	6.67	49.83
111	229.0	3400.0	31.8	0.0	10.0	140.0	1.40	32.58	44.75	4.48	116.49
112	219.0	3260.0	33.3	0.0	10.0	110.0	1.10	34.55	57.29	3.73	161.24
113	209.0	3150.0	35.8	0.0	10.0	190.0	1.90	36.84	66.66	6.87	198.53
114	199.0	2960.0	37.9	0.0	2.0	660.0	33.00	38.06	246.41	123.21	267.19
115	197.0	2300.0	38.2	0.0	7.0	250.0	3.57	38.03	93.26	15.32	513.60
116	190.0	2050.0	37.8	19.8	10.0	50.0	0.50	57.66	28.28	2.83	606.86
117	180.0	2000.0	57.7	0.0							635.15
SUBTOTAL					99.0	1800.0			635.15	6.42	

AFLUENTE MAJES C

117	180.0	2000.0	57.7	0.0	10.0	120.0	1.20	58.90	69.34	6.93	0.00
118	170.0	1880.0	60.1	0.0	3.0	230.0	7.67	60.81	137.20	15.73	67.34
119	167.0	1650.0	61.5	0.0	3.0	260.0	8.67	61.61	157.14	52.38	120.55
120	164.0	1390.0	61.7	2.3	10.0	30.0	0.30	64.00	18.83	1.88	353.67
121	154.0	1360.0	64.0	10.0	10.0	155.0	1.55	74.62	113.47	11.35	382.51
122	144.0	1205.0	75.2	0.0	10.0	85.0	0.85	75.96	63.34	6.33	495.97
123	134.0	1120.0	76.7	0.0	5.0	130.0	2.60	77.24	98.51	19.70	559.31
124	129.0	990.0	77.8	0.0	10.0	90.0	0.90	77.86	68.74	6.87	657.82
125	119.0	900.0	77.9	6.2	6.0	20.0	0.33	80.86	15.86	2.64	726.56
126	113.0	880.0	77.6	0.0	5.0	150.0	3.00	77.76	114.42	22.88	742.43
127	108.0	730.0	77.9	0.0							856.85
SUBTOTAL					72.0	1270.0			856.85	11.90	

AFLUENTE MAJES D

127	108.0	730.0	77.9	0.0	10.0	50.0	0.50	74.17	36.38	3.64	0.00
128	98.0	680.0	70.4	0.5	10.0	50.0	0.50	69.21	33.95	3.39	36.38
129	88.0	630.0	67.5	0.0	10.0	80.0	0.80	65.76	51.61	5.16	70.33
130	78.0	550.0	64.1	0.0	10.0	95.0	0.95	62.31	58.07	5.81	121.93
131	68.0	455.0	60.6	0.0	10.0	107.0	1.07	58.91	61.84	6.18	180.00
132	58.0	348.0	57.3	0.0	10.0	58.0	0.58	55.51	31.58	3.16	241.84
133	48.0	290.0	53.8	0.0	10.0	94.0	0.94	53.77	49.58	4.96	273.42
134	38.0	196.0	53.8	0.0	10.0	51.0	0.51	53.81	26.92	2.69	323.00
135	28.0	145.0	53.8	0.0	10.0	50.0	0.50	53.92	26.45	2.64	349.92
136	18.0	95.0	54.0	0.0	10.0	70.0	0.70	54.00	37.08	3.71	376.37
137	8.0	25.0	54.0	0.0							413.45
SUBTOTAL					100.0	705.0			413.45	4.13	

AFLUENTE MAJES E

137	8.0	25.0	54.0	0.0	8.0	25.0	0.31	54.00	13.24	1.66	0.00
138	0.0	0.0	54.0	0.0							13.24
SUBTOTAL					8.0	25.0			13.24	1.66	

 * EL POTENCIAL TEORICO TOTAL DEL RIO CHILI ES DE 1030.2 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 881.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 1.17 MW/KM *

POTENCIAL TEORICO DEL RIO CHILI 1/ 9/79

	H	Q	AFQ	DL	DM	PE	QC	POT	ESP	CUM	
=====											
AFLUENTE CAPILLANE											
1	42.0	4800.0	0.0	0.0						0.00	
2	30.0	4355.0	0.3	0.0	12.0	445.0	3.71	0.13	0.59	0.59	
3	20.0	4310.0	0.7	0.0	10.0	45.0	0.45	0.48	0.21	0.80	
4	10.0	4273.0	1.5	0.0	10.0	37.0	0.37	1.11	0.40	1.20	
5	0.0	4247.0	2.3	0.0	10.0	26.0	0.26	1.88	0.48	1.68	
=====											
SUBTOTAL					42.0	553.0			1.68	0.04	
=====											
AFLUENTE PATI											
6	21.0	4545.0	0.0	0.0						0.00	
7	10.0	4220.0	0.3	0.0	11.0	325.0	2.95	0.17	0.53	0.53	
8	0.0	4126.0	0.9	0.0	10.0	94.0	0.94	0.61	0.56	1.08	
=====											
SUBTOTAL					21.0	419.0			1.08	0.05	
=====											
AFLUENTE BLANCO SUPER											
9	71.0	4480.0	0.1	0.0						0.00	
10	59.0	4265.0	0.8	0.0	12.0	215.0	1.79	0.46	0.96	0.96	
11	49.0	4175.0	1.3	0.0	10.0	90.0	0.90	1.03	0.91	1.87	
12	39.0	4126.0	0.0	0.9	10.0	49.0	0.49	0.66	0.32	2.18	
13	30.0	4080.0	2.3	0.0	9.0	46.0	0.51	1.61	0.73	2.91	
14	17.0	4017.0	3.9	0.0	13.0	63.0	0.48	3.10	1.91	4.82	
=====											
SUBTOTAL					54.0	463.0			4.82	0.09	
=====											
AFLUENTE BLANCO INFER											
14	17.0	4017.0	3.9	0.0						0.00	
15	10.0	3885.0	4.1	0.0	7.0	132.0	1.89	3.99	5.16	5.16	
16	0.0	3740.0	4.1	0.0	10.0	145.0	1.45	4.10	5.83	10.99	
=====											
SUBTOTAL					17.0	277.0			10.99	0.65	
=====											
AFLUENTE SOCABAYA											
17	47.0	4340.0	0.5	0.0						0.00	
18	40.0	4122.0	0.4	0.0	7.0	218.0	3.11	0.45	0.97	0.97	
19	30.0	3300.0	1.0	0.0	10.0	822.0	8.22	0.70	5.65	6.62	
20	20.0	2745.0	1.5	0.0	10.0	555.0	5.55	1.23	6.68	13.30	
21	7.0	2300.0	1.9	0.0	13.0	445.0	3.42	1.68	7.33	20.63	
22	0.0	2146.0	3.2	0.0	7.0	154.0	2.20	-2.54	3.84	24.47	
=====											
SUBTOTAL					47.0	2194.0			24.47	0.52	
=====											
AFLUENTE PACCHA											
23	36.0	4950.0	0.0	0.0						0.00	
24	30.0	4000.0	0.2	0.0	6.0	950.0	15.83	0.08	0.77	0.77	
25	20.0	3470.0	0.7	0.0	10.0	530.0	5.30	0.44	2.28	3.04	
26	10.0	3000.0	1.0	0.0	10.0	470.0	4.70	0.87	4.02	7.06	
27	0.0	2450.0	1.8	0.0	10.0	550.0	5.50	1.42	7.64	14.71	
=====											
SUBTOTAL					36.0	2500.0			14.71	0.41	

I	L	H	Q	AFQ	DL	DM	PE	NC	POT	ESP	OTR
=====											
AFLUENTE GRAMADAL											
28	43.0	4100.0	0.0	0.0	13.0	1155.0	8.88	0.07	0.82	0.06	0.00
29	30.0	2945.0	0.1	0.0	10.0	420.0	4.20	0.21	0.87	0.09	0.82
30	20.0	2525.0	0.3	0.0	10.0	340.0	3.40	0.56	1.86	0.19	1.70
31	10.0	2185.0	0.8	0.0	10.0	385.0	3.85	0.87	3.28	0.33	3.56
32	0.0	1800.0	0.9	0.0							6.83
SUBTOTAL					43.0	2300.0			6.83	0.16	
=====											
AFLUENTE YURA SUPERIO											
33	81.0	4735.0	0.0	0.0	11.0	425.0	3.86	0.63	2.61	0.24	0.00
34	70.0	4310.0	1.2	0.0	10.0	470.0	4.70	1.46	6.74	0.67	2.61
35	60.0	3840.0	1.7	0.0	10.0	500.0	5.00	2.50	12.26	1.23	9.35
36	50.0	3340.0	3.3	0.0	10.0	280.0	2.80	3.79	10.41	1.04	21.61
37	40.0	3060.0	4.3	0.0	10.0	225.0	2.25	4.49	9.91	0.99	32.02
38	30.0	2835.0	4.7	0.0	10.0	385.0	3.85	4.75	17.92	1.79	41.93
39	20.0	2450.0	4.8	1.8	2.0	80.0	4.00	6.60	5.18	2.59	59.85
40	18.0	2370.0	6.6	0.0							65.03
SUBTOTAL					63.0	2365.0			65.03	1.03	
=====											
AFLUENTE YURA INFERIO											
40	18.0	2370.0	6.6	0.0	3.0	40.0	1.33	6.62	2.60	0.87	0.00
41	15.0	2330.0	6.6	0.0	10.0	530.0	5.30	6.66	34.62	3.46	2.60
42	5.0	1800.0	6.7	0.9	5.0	345.0	6.90	7.50	25.66	5.13	37.22
43	0.0	1455.0	7.6	0.0							62.88
SUBTOTAL					18.0	915.0			62.88	3.49	
=====											
AFLUENTE LIHUALLA											
44	33.0	4135.0	0.1	0.0	13.0	655.0	5.04	0.26	1.66	0.13	0.00
45	20.0	3480.0	0.5	0.0	10.0	500.0	5.00	0.67	3.29	0.33	1.66
46	10.0	2980.0	0.9	0.0	10.0	425.0	4.25	0.94	3.90	0.39	4.95
47	0.0	2555.0	1.0	0.0							8.85
SUBTOTAL					33.0	1580.0			8.85	0.27	
=====											
AFLUENTE LA MINA											
48	31.0	5050.0	0.3	0.0	11.0	810.0	7.36	0.45	3.54	0.32	0.00
49	20.0	4240.0	0.6	0.0	10.0	525.0	5.25	1.01	5.20	0.52	3.54
50	10.0	3715.0	1.4	0.0	10.0	695.0	6.95	1.44	9.85	0.98	8.74
51	0.0	3020.0	1.5	0.0							18.59
SUBTOTAL					31.0	2030.0			18.59	0.60	
=====											
AFLUENTE LLUTA											
52	50.0	4685.0	0.2	0.0	10.0	445.0	4.45	0.28	1.21	0.12	0.00
53	40.0	4240.0	0.4	0.0	10.0	625.0	6.25	0.57	3.50	0.35	1.21
54	30.0	3615.0	0.8	0.0	9.0	595.0	6.61	0.95	5.54	0.62	4.71
55	21.0	3020.0	1.1	1.5	11.0	420.0	3.82	2.79	11.51	1.05	10.26
56	10.0	2600.0	2.9	0.0	10.0	605.0	6.05	3.10	18.39	1.84	21.76
57	0.0	1995.0	3.3	0.0							40.15
SUBTOTAL					50.0	2690.0			40.15	0.80	

POTENCIAL TEORICO DEL RIO CHILI

1/ 9/79

I	L	H	Q	AFQ	DL	DM	PE	GC	POT	ESP	CUM
=====											
AFLUENTE SIGUAS											
58	130.0	4787.0	0.0	0.0	8.0	222.0	2.77	0.14	0.31	0.04	0.00
59	122.0	4565.0	0.3	0.0	10.0	200.0	2.00	0.52	1.02	0.10	0.31
60	112.0	4365.0	0.8	0.0	10.0	165.0	1.65	1.45	2.35	0.23	1.34
61	102.0	4200.0	2.1	0.0	10.0	415.0	4.15	2.37	9.66	0.97	3.68
62	92.0	3785.0	2.6	0.0	10.0	791.0	7.91	2.97	23.03	2.30	13.35
63	82.0	2994.0	3.5	0.0	10.0	439.0	4.39	5.34	14.37	1.44	36.37
64	72.0	2555.0	3.4	1.0	8.0	560.0	7.00	4.46	24.49	3.06	50.74
65	64.0	1995.0	4.6	3.3	4.0	220.0	5.50	7.84	16.92	4.23	75.23
66	60.0	1775.0	7.9	0.0	10.0	235.0	2.35	7.47	17.22	1.72	92.15
67	50.0	1540.0	7.1	0.0	10.0	217.0	2.17	6.59	14.02	1.40	109.37
68	40.0	1323.0	6.1	0.0	10.0	183.0	1.83	5.68	10.20	1.02	123.40
69	30.0	1140.0	5.3	0.0	10.0	190.0	1.90	4.77	8.90	0.89	133.60
70	20.0	950.0	4.3	0.0	10.0	480.0	4.80	4.29	20.18	2.02	142.49
71	10.0	470.0	4.3	0.0	10.0	315.0	3.15	4.29	13.27	1.33	162.67
72	0.0	155.0	4.3	0.0							175.94
SUBTOTAL					130.0	4632.0			175.94	1.35	
=====											
AFLUENTE CHILI A											
73	296.0	4750.0	0.0	0.0	13.0	162.0	1.25	0.09	0.15	0.01	0.00
74	263.0	4588.0	0.2	0.0	10.0	72.0	0.72	0.28	0.20	0.02	0.15
75	273.0	4516.0	0.4	0.0	10.0	47.0	0.47	0.46	0.22	0.02	0.34
76	263.0	4469.0	0.6	0.0	13.0	31.0	0.24	2.37	0.72	0.06	0.56
77	250.0	4438.0	4.2	0.0	4.0	21.0	0.52	4.18	0.86	0.22	1.28
78	246.0	4417.0	4.2	0.0							2.14
SUBTOTAL					50.0	335.0			2.14	0.04	
=====											
AFLUENTE CHILI B											
76	246.0	4417.0	4.2	0.0	6.0	14.0	0.23	4.29	0.59	0.10	0.00
79	240.0	4403.0	4.4	0.0	10.0	103.0	1.03	4.44	4.48	0.45	0.59
80	230.0	4300.0	4.5	0.0	10.0	53.0	0.53	4.52	2.35	0.24	5.07
81	220.0	4247.0	4.6	2.3	12.0	172.0	1.43	7.04	11.87	0.99	7.42
82	208.0	4075.0	7.3	0.0	10.0	140.0	1.40	7.55	10.09	1.01	19.30
83	198.0	3935.0	7.4	0.0	10.0	90.0	0.90	7.85	6.93	0.69	29.38
84	188.0	3845.0	8.3	0.0	10.0	105.0	1.05	8.34	8.59	0.86	36.31
85	178.0	3740.0	8.4	4.1	9.0	82.0	0.91	12.71	10.23	1.14	44.90
86	169.0	3658.0	12.9	0.0	10.0	588.0	5.88	13.10	75.57	7.56	55.13
87	159.0	3070.0	13.3	0.0	10.0	435.0	4.35	13.35	56.98	5.70	130.70
88	149.0	2635.0	13.4	0.0							197.68
SUBTOTAL					97.0	1782.0			187.68	1.93	

=====

AFLUENTE CHILI C

=====

88	149.0	2635.0	13.4	0.0							
89	139.0	2360.0	13.6	0.0	10.0	275.0	2.75	13.49	36.38	3.64	36.38
90	129.0	2146.0	14.0	3.2	10.0	214.0	2.14	13.79	28.94	2.89	65.32
91	127.0	2100.0	17.3	0.0	2.0	46.0	2.30	17.22	7.77	3.89	73.10
92	122.0	2035.0	17.3	0.0	5.0	65.0	1.30	17.28	11.02	2.20	84.12
93	116.0	1955.0	17.6	0.0	6.0	80.0	1.33	17.45	13.70	2.28	97.81
94	106.0	1715.0	17.8	0.0	10.0	240.0	2.40	17.70	41.68	4.17	139.49
SUBTOTAL					43.0	920.0			139.49	3.24	

=====

AFLUENTE CHILI D

=====

94	106.0	1715.0	17.8	0.0							0.00
95	98.0	1455.0	10.8	7.6	8.0	260.0	3.25	14.29	36.46	4.56	36.46
96	88.0	1280.0	14.8	0.0	10.0	175.0	1.75	16.59	28.48	2.85	64.94
SUBTOTAL					18.0	435.0			64.94	3.61	

=====

AFLUENTE CHILI E

=====

96	88.0	1280.0	14.8	0.0							0.00
97	80.0	1155.0	14.9	0.0	8.0	125.0	1.56	14.85	18.20	2.28	18.20
98	70.0	1075.0	15.0	0.0	10.0	80.0	0.80	14.94	11.72	1.17	29.93
99	60.0	990.0	15.1	0.0	10.0	85.0	0.85	15.05	12.55	1.25	42.48
100	50.0	860.0	15.3	0.0	10.0	130.0	1.30	15.22	19.41	1.94	61.89
101	40.0	575.0	15.5	0.0	10.0	285.0	2.85	15.43	43.14	4.31	105.03
102	30.0	285.0	15.7	0.0	10.0	290.0	2.90	15.59	44.36	4.44	149.39
103	22.0	155.0	15.7	4.3	8.0	130.0	1.62	15.68	20.00	2.50	169.39
104	10.0	30.0	20.1	0.0	12.0	125.0	1.04	20.05	24.58	2.05	193.97
105	0.0	0.0	20.1	0.0	10.0	30.0	0.30	20.10	5.91	0.59	199.89
SUBTOTAL					88.0	1280.0			199.89	2.27	

 * EL POTENCIAL TEORICO TOTAL DEL RIO TAMBO ES DE 1507.8 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 919.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 1.64 MW/KM *

POTENCIAL TEORICO DEL RIO TAMBO 1/12/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE SAN ANTONIO											
1	21.0	4800.0	0.0	0.0	11.0	550.0	5.00	0.28	1.50	0.14	0.00
2	10.0	4250.0	0.5	0.0	10.0	335.0	3.35	0.87	2.85	0.28	1.50
3	0.0	3915.0	1.2	0.0							4.35
SUBTOTAL					21.0	885.0			4.35	0.21	
=====											
AFLUENTE CRUCERO											
4	28.0	4425.0	0.0	0.0	8.0	200.0	2.50	0.42	0.82	0.10	0.00
5	20.0	4225.0	0.8	0.0	10.0	150.0	1.50	1.37	2.01	0.20	0.82
6	10.0	4075.0	1.9	0.0	10.0	240.0	2.40	2.31	5.43	0.54	2.83
7	0.0	3835.0	2.7	0.0							8.26
SUBTOTAL					28.0	590.0			8.26	0.30	
=====											
AFLUENTE QUELLOMOCCO											
8	20.0	4825.0	0.0	0.0	10.0	620.0	6.20	0.19	1.14	0.11	0.00
9	10.0	4205.0	0.4	0.0	10.0	357.0	3.57	0.48	1.67	0.17	1.14
10	0.0	3848.0	0.6	0.0							2.81
SUBTOTAL					20.0	977.0			2.81	0.14	
=====											
AFLUENTE CHACRAMAYO											
11	29.0	4355.0	0.0	0.0	9.0	215.0	2.39	0.10	0.21	0.02	0.00
12	20.0	4140.0	0.2	0.0	10.0	240.0	2.40	0.29	0.69	0.07	0.21
13	10.0	3900.0	0.4	0.0	10.0	55.0	0.55	1.34	0.72	0.07	0.90
14	0.0	3845.0	2.3	0.0							1.63
SUBTOTAL					29.0	510.0			1.63	0.06	
=====											
AFLUENTE PALTITURE											
15	56.0	4240.0	0.2	0.0	6.0	55.0	0.92	0.55	0.30	0.05	0.00
16	50.0	4185.0	0.9	0.0	10.0	75.0	0.75	1.32	0.97	0.10	0.30
17	40.0	4110.0	1.7	0.0	10.0	130.0	1.30	2.00	2.55	0.25	1.26
18	30.0	3980.0	2.3	0.0	9.0	132.0	1.47	2.49	3.22	0.36	3.81
19	21.0	3848.0	2.7	0.6	1.0	3.0	0.30	3.29	0.10	0.10	7.03
20	20.0	3845.0	3.3	2.3	10.0	105.0	1.05	5.71	5.88	0.59	7.13
21	10.0	3740.0	5.8	0.0	10.0	195.0	1.95	6.05	11.57	1.16	13.01
22	0.0	3545.0	6.3	0.0							24.57
SUBTOTAL					56.0	695.0			24.57	0.44	
=====											
AFLUENTE CURO											
23	35.0	4740.0	0.0	0.0	5.0	200.0	4.00	0.10	0.19	0.04	0.00
24	30.0	4540.0	0.2	0.0	10.0	230.0	2.30	0.43	0.97	0.10	0.19
25	20.0	4310.0	0.7	0.0	10.0	315.0	3.15	0.96	2.96	0.30	1.15
26	10.0	3995.0	1.2	0.0	10.0	985.0	9.85	1.32	12.80	1.28	4.11
27	0.0	3010.0	1.4	0.0							16.91
SUBTOTAL					35.0	1730.0			16.91	0.48	
=====											