

REPUBLIC OF THE PHILIPPINES NATIONAL POWER CORPORATION

# FEASIBILITY REPORT ON AGOS RIVER HYDROPOWER PROJECT

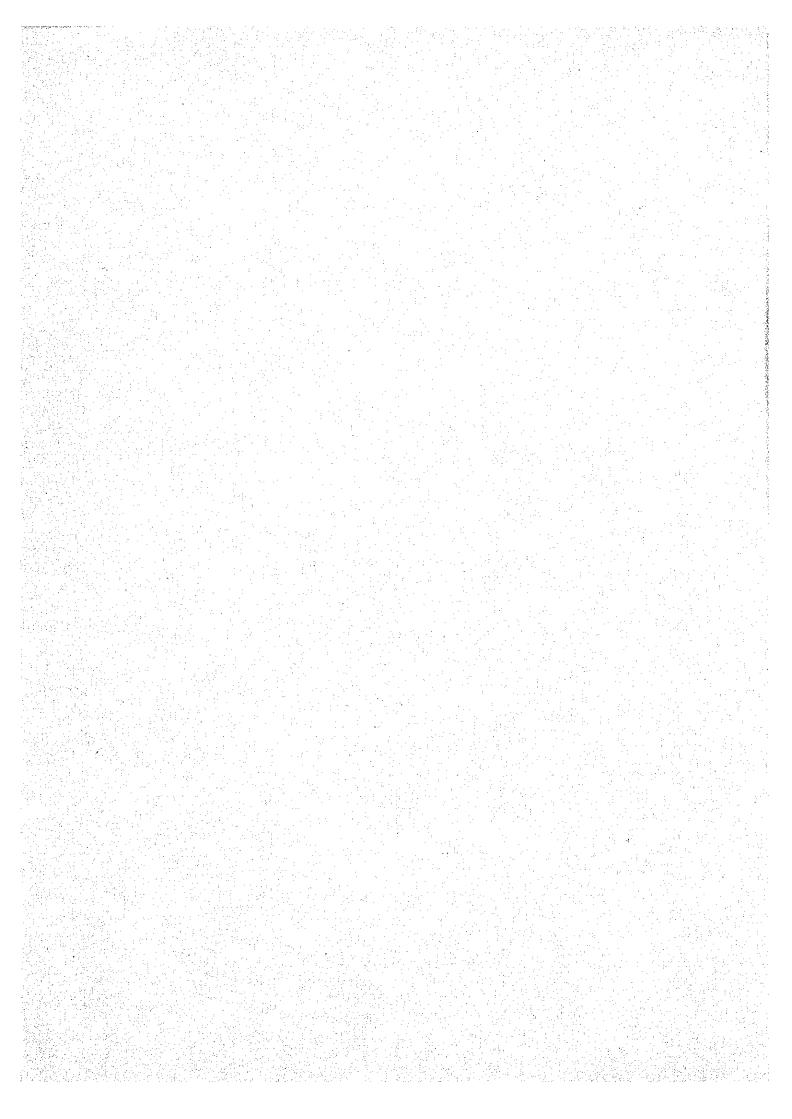
APPENDIX F COMPUTER OUTPUTS

MARCH 1981

JAPAN INTERNATIONAL COOPERATION AGENCY



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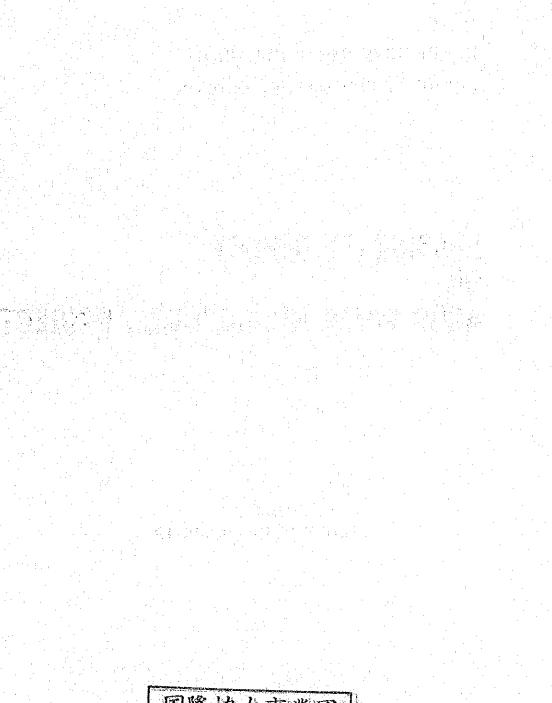


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APPENDIX F COMPUTER OUTPUTS

MARCH, 1981

JAPAN INTERNATIONAL COOPERATION AGENCY



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#### AGOS RIVER HYDROPOWER PROJECT

FEASIBILITY REPORT

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Appendix	B	Geology and Construction Materials
Appendix	C	Power Study
Appendix	D	Optimization Study for the Development on the Agos River System
Appendix	E	Project Works
Appendix	F	Computer Outputs

Data Book I	Topographic Survey
Data Book II	Meteorology and Hydrology
Data Book III	Geological Exploration
Data Book IV	Construction Materials

# APPENDIX F <u>COMPUTER OUTPUTS</u>

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		ABBREVIATIONS AND UNIT
nd en See	JICA	Japan International Cooperation Agency
	NAPOCOR (NPC)	National Power Corporation of Philippines
	NK	Nippon Koei Co., Ltd.
	PICOREM	Presidencial Inter-Agency Committee for re-study of the Marikina River Multi-purpose Project
· · · ·	NEA	National Electrification Administration
	MOE	Ministry of Energy
	MERALCO (MECO)	Manila Electric Company
1	MWSS	Metropolitan Waterworks and Sewerage System
	PAGASA	Philippine Atmospheric, Geophysical and Astronomical Services Administration
	BPW	Bureau of Public Works
	ECAFE	Economic Commission for Asia and the Far East
• .	CDM	Camp, Dresser and McKee International, Inc.
i te	M + E (M & E)	Metcalf and Eddy, Ltd.
	\$	United States Dollars
	₽ (P)	Philippines Pesos
	an a	Japanese Yen
	FC	Foreign Currency
	ĨÇ	Local Currency
	EIRR	Economic Internal Rate of Return
	FIRR	Financial Internal Rate of Return
	0 & M	Operation and Maintenance
	L.F.	Load Factor
		- <b>3</b> -
		에는 사람이 가지 않았는 것이 같아요. 그는 것이 가지 않았는 것이 있는 것이 가지 않았다. 같이 같은 것은 것은 같은 것이 있는 것이 같은 것을 다 같은 것이 같은 것이 같아요. 것이 같아?

AMSL	Above mean sea level
EL.	Elevation in m AMSL
W.L. (WL)	Water level in m AMSL
H.W.L. (HWL)	High water level in m AMSL
L.W.L. (LWL)	Low water level in m AMSL
F.W.L. (FWL)	Flood water level in m AMSL
D.F.W.L. (DFWL)	Design flood water level in m AMSL
P.M.F.W.L. (PMFWL)	Probable maximum flood water level in m AMSL
mm	millimeter(s)
cm	centimeter (s)
$\mathbf{n}$	meter(s)
km	kilometer(s)
<b>m</b> 3	cubic meter
km <sup>2</sup>	square kilometer(s)
ha	hectare
m <sup>3</sup> /sec (cms)	cubic meter per second
m <sup>3</sup> /sec.month	Water volume equivalent to the discharge of 1 m <sup>3</sup> /sec for the duration of 1 month
kg	kilogram
ť (ton)	metric ton
٨.	liter
<b>%</b>	percent
• <b>C</b>	centigrade
0	degree
N	north
rpm	revolution per minute
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	- 4 -

Hz	Hertz (cycles per second)
kcal	kilocalorie
kV	kilovolt
kVA	kilovolt ampere
MVA	megavolt ampere
W	Watt
kW	kilowatt
MW	megawatt
kWh	kilowatt hour
MWh	megawatt hour
GWh	gigawatt hour
V	volt
BTU	British Thermal Unit

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#### CHAPTER 1.

#### STABILITY ANALYSIS OF AGOS DAM

Case No.	Condition	Slope
1-1	Reservoir water surface at H.W.L. and steady seepage in dam	Upstream & downstream
1-2	Immediately after completion (no storage but pore water pressure developed)	Upstream
1-3	Rapid reservoir drawdown from H.W.L. to L.W.L. and unsteady seepage in dam	Upstream
1-4	Reservoir water surface at probable maximum water level and steady seepage in dam	Upstream

1 - 1

		Case No. 1-
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#### CHAPTER 2

FLOOD ROUTING OF AGOS DAM

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#### 2.1 Discharge Capacity of 4 Spillway Alternatives

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2-2	II 12.	5 12.0 6	100.0 4.5 2
2-3	111 <b>12.</b>	5 12.0 6	185.0 3.0 2
2-4	IV 14.	0 14.0 4	210.0 3.0 2
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## 2.2 Reservoir Routing of P.M.F. for 2 Spillway Alternatives

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2-7			LL	
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#### 2.3 Reservoir Routing of Other Floods for Spillway Alternative IV

Case No.		Flo	od		Remarks
	Reference	Flood A (	(Qp = 17,	700 m <sup>3</sup> /sec)	Fletcher's Rain by Combined Unitgraph B
2-10	Reference	Flood B (	(Qp = 15,	700 m <sup>3</sup> /sec)	P.M.P. by Combined Unitgraph A
2-11	200-Year	Flood (	(Qp = 8,8	30 m <sup>3</sup> /sec)	
2–12	Recorded	Maximum (	(Qp = 6, 4)	90 m <sup>3</sup> /sec)	

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S. Oak Sec. 3.

#### 2.4 Incidental Gate Operation for Spillway Alternative I and IV

Note: All gates are assumed to be kept closed.

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Case No. 2-1 Case No. 2-2

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APAGITY     ALTERNATIVE       1     APAGITY       ALE     ALTERNATIVE       1     APAGITY       1     1 <th>GE CAPACITY</th> <th>GATED CREST NONGAYED CREST</th> <th></th> <th></th> <th>40 26</th> <th>1 0 0 7</th> <th>68</th> <th>80.356</th> <th>51 670°</th> <th>68 756</th> <th>966 - 566</th> <th>5 1268</th> <th>•966 1462.1</th> <th>1 9 7 6 7 5 9 7 . </th> <th>.029 2103.6</th> <th>.048 2344.7</th> <th>. UR9</th> <th>.100 3111.0 3</th> <th>116 3386.0 3 +** 346 2 2</th> <th></th> <th>026 6525.7 2.152 4247.1</th> <th>025 0075.00 24151 4524.4 11 024 8824.4 24151 4524.4 11</th> <th>021 6978.4 2.149 5095.6</th> <th>219 2131-3-2-142 5389-3</th> <th>UTE (2008.0 2.140 2008.5 12 016 7439.7 2.145 5992.3 13</th> <th>014 7595.3 2.144 6301.5</th> <th>012 775186 2.143 00615.55 14 010 20001 2.141 6072 2.4</th> <th>008 8067 4 2140 7258 0</th> <th>007 8226.5 2.139 7586.4 15</th> <th>205 8386.5 2.138 72912.5</th> <th>003 8547.5 2.137 8250.8</th> <th>000 8871.5 2.435 8945.0</th>	GE CAPACITY	GATED CREST NONGAYED CREST			40 26	1 0 0 7	68	80.356	51 670°	68 756	966 - 566	5 1268	•966 1462.1	1 9 7 6 7 5 9 7 . 	.029 2103.6	.048 2344.7	. UR9	.100 3111.0 3	116 3386.0 3 +** 346 2 2		026 6525.7 2.152 4247.1	025 0075.00 24151 4524.4 11 024 8824.4 24151 4524.4 11	021 6978.4 2.149 5095.6	219 2131-3-2-142 5389-3	UTE (2008.0 2.140 2008.5 12 016 7439.7 2.145 5992.3 13	014 7595.3 2.144 6301.5	012 775186 2.143 00615.55 14 010 20001 2.141 6072 2.4	008 8067 4 2140 7258 0	007 8226.5 2.139 7586.4 15	205 8386.5 2.138 72912.5	003 8547.5 2.137 8250.8	000 8871.5 2.435 8945.0
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Case No. 2-6

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Case No. 2-6 

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OF         AGOS         RESERVOLR         CASE 1           ARSERVOLR         LAST ILHE CONSIDERED           ARSERVOLR         CASE 1           INFLOW         SUBCHARCE         AGA TILLE           VOLUME         LEVEL         AGA TILLE           VOLUME         LEVEL         CC.M.S.)           11005.0         105.77         410.0           11005.0         105.77         410.0           11005.0         105.77         410.0           11005.0         105.77         410.0           11005.0         105.47         105.49
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Case No. 2-7

### Case No. 2-7

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	RVOIR TER NONGATED GATED	EVEL CREAT CREAT	97. 822.8	86 614.7 44904.4 5114	77 508.4 4437.6 4946		59 552.2 4527.5 4001 50 258.1 4281.9 4540	41 426 4226 4226 6428	52 131.1 4179.1 4310	.23 78.3 41.23.2 4201 12 35.2 45.08	04 5.2 4015.0 4020	0 39291 3928	73. 0. 3746.2 3746	53 53 0 357 1 357 1 357 1	4.44 0. 3487.0	5 0 3321 8 3321	3241 3241		3.90 0. 3008.7 3008 3.00 0. 3008.7 3008	3.74 0. 2863.1 2863	3.66 0. 2793.2 2793	2723 5	5.50 0. 2001+0 2001+0 2001	5.41 U. CJ13.6 CJ13 2.43 CJ23 U. CJ13.6	5-19 0. 2374-5	3.06 0. 2253.7	2,91 0 2127 4	2* 1/2 × 1007	
	SERVOIR OUTFLOW WATER NONGATED GATED	EVEL CREAT CREAT	97. 822.8	86 614.7 44904.4 5114	77 508.4 4437.6 4946		59 552.2 4527.5 4001 50 258.1 4281.9 4540	41 426 4226 4226 6428	52 131.1 4179.1 4310	.23 78.3 41.23.2 4201 12 35.2 45.08	04 5.2 4015.0 4020	94 0. 3929-1 3929 84 0. 3837-0 3837	73. 0. 3746.2 3746	53 53 0 357 1 357 1 357 1	4.44 0. 3487.0	4-25 0. 3321-8 3321	3241 3241	3,99 0, 3085,0 3085 1,99 0, 3085,0 3085	3.90 0. 3008.7 3008 3.00 0. 3008.7 3008	3.74 0. 2863.1 2863	3.66 0. 2793.2 2793	2723 5	5.50 0. 2001+0 2001+0 2001	5.41 U. CJ13.6 CJ13 2.43 CJ23 U. CJ13.6	5-19 0. 2374-5	3.06 0. 2253.7	2,91 0 2127 4	2* 1/2 × 1007	
	RESERVOIR WATER NONGATED GATED		28.5244 8.528	165_86 614_7 44964 5114	165.77 508.4 4437.6 4946		165.59 552.2 4527.5 4540 445.50 258.1 4281.9 4540	165°41	165.32 131.1 4179.1 4310	165_23 78_3 4123_2 4201 +** +1	165.04 5.2 4015.0 4020	164-94 0. 3929-1 3927 144-84 0. 3837-0 3837	164.73 0. 3746.2 2746		164.44 0. 3487.0		3241.7 3241		163,90 0. 3008.7 3008		163,66 0. 2793,2 2793	163.58		103 41 51 0 51 51 51 51 51 51 51 51 51 51 51 51 51	192-192-192 0. 0. 2374-5	163.06 0. 2253.7	162.91 0. 2127.4	50°00'2 0.0	
	RESERVOIR WATER NONGATED GATED	3.) (3.%) (C.M.S.) (C.M.S.) (C.M.S.)	28.5244 8.528	165_86 614_7 44964 5114	165.77 508.4 4437.6 4946		165.59 552.2 4527.5 4540 445.50 258.1 4281.9 4540	165°41	165.32 131.1 4179.1 4310	165_23 78_3 4123_2 4201 +** +£ 35 35_29 4208	165.04 5.2 4015.0 4020	22291 252291 25228 252591 25252 25270 2537	3746-2 3746	7.0 104.03 0. 3571.3 3571	1.3 164.44	5.1 1 1 644,25 0. 0. 332148 3323	6.9 164.164.16 0. 3241.7 3241.7 3241	84/ 164-00 0. 3085-0 3085	2.1 163.90 0. 3008.7 5008	5.4 103.02.04 0. 2863.1 2863.1 2863.1	5,9 163,66 0. 2793,2 2793	8,5 163,58 0. 2723.5			0. X	8.9 163.06 0. 2253.7	2 162.91 0 2127.4	*5. 162.7%	
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	SURCHARGE RESERVOIR OUTFLOW SURCHARGE RESERVOIR WONGATED GATED	\$\$) (M+C+H+) (C+H+S+) (C+H+S+) (C+H+S+)	23.00 100 100 100 100 100 100 100 100 100	19-8 100-90 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-100-	15.7 165.77 508.4 4437.6 4946		12.0 165.59 532.2 4261.9 4001 40.5 445.50 258.1 4281.9 4540	2	6.6 165.52 131.1 4179.1 4310	4.7 165.23 78.5 4123.2 4201 5 8 146 14	0 8 165.04 5.2 4015.0 4020	223 24 2 24 2 24 2 25 2 26 2 26 2 26 2 26 2 26 2 26 2 26					1927 3241 3241 3241 3241 3241 3241 3241 3241		-22,1 163,90 0. 3008.7 3008		-26,9 163,66 0. 2793,2 2793	-28,5 163,58 0. 2723.5			5	-38.9 163.06 0. 2253.7	+41.7 162.91 0. 2127.4		
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	SURCHARGE RESERVOIR OUTFLOW VOLUME VOLUME VALEN	\$\$) (M+C+H+) (C+H+S+) (C+H+S+) (C+H+S+)	23.00 100 100 100 100 100 100 100 100 100	19-8 100-90 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-10 100-100-	15.7 165.77 508.4 4437.6 4946		12.0 165.59 532.2 4261.9 4001 40.5 445.50 258.1 4281.9 4540	2	6.6 165.52 131.1 4179.1 4310	4.7 165.23 78.5 4123.2 4201 5 8 146 14	0 8 165.04 5.2 4015.0 4020	223 24 2 24 2 24 2 25 2 26 2 26 2 26 2 26 2 26 2 26 2 26					1927 1227 1227 1227 1227 1227 1227 1227		-22,1 163,90 0. 3008.7 3008		-26,9 163,66 0. 2793,2 2793	-28,5 163,58 0. 2723.5			5	-38.9 163.06 0. 2253.7	+41.7 162.91 0. 2127.4		
	SURCHARGE RESERVOIR OUTFLOW SURCHARGE RESERVOIR WONGATED GATED	CC+M+S+) CC+M+S+ CC+M+S+) CC+M+S+) CC+M+	282345	4688.4 19.6 105.80 105.86 514.7 4490.4 5113	4406.8 15.7 165.77 508.4 4437.6 4946	4282.9 13.8 165.07 414.2 424.3 4723	4169.6 12.0 165.59 532.2 522.2 527.3 5001 2.4.7 5		3796.0 6.6 165.52 131.1 4179.1 4310	3671.9	3448.1 0.8 165.04 6015.0 4020	3342 3 2342 3 23542 5 24 24 34 0 144 34 34 23 3837 0 3837 0 3837 0	31744	3100.0	2953.4		2738.9	266440 Track 164408 0. 308540 3085	2530.2 -22.1 163.90 0. 3008.7 3008	247048	235046 -26.9 163.66 0. 2793.2 2793	2278,9 -28,5 163,58 0. 2723,5		2053°7 =31°8 163°41 0° 225°5°4 251°3°4	1. 1848.85	1459.3 =38.9 163.06 0. 2253.7	1315.4 +41.7 162.91 0. 2122.4	1196-88	
	INFLOW SURCHARGE RESERVOIR OUTFLOW SURCHARGE RESERVOIR WATER WONGATED GATED	(H+) (C+H+S+) (H+) (C+H+S+) (C+H+S+) (C+H+	282345	4688.4 19.6 105.80 105.86 514.7 4490.4 5113	4406.8 15.7 165.77 508.4 4437.6 4946	4282.9 13.8 165.07 414.2 424.3 4727	4169.6 12.0 165.59 532.2 522.2 527.3 5001 2.4.7 5		3796.0 6.6 165.52 131.1 4179.1 4310	3671.9	3448.1 0.8 165.04 6015.0 4020	223 24 2 24 2 24 2 25 2 26 2 26 2 26 2 26 2 26 2 26 2 26	31744	3100.0	2953.4		2738.9	266440 Track 164408 0. 308540 3085	2530.2 -22.1 163.90 0. 3008.7 3008	247048	235046 -26.9 163.66 0. 2793.2 2793	2278,9 -28,5 163,58 0. 2723,5		2053°7 =31°8 163°41 0° 225°5°4 251°3°4	1. 1848.85	1459.3 =38.9 163.06 0. 2253.7	1315.4 +41.7 162.91 0. 2122.4	1196-88	
	INFLOW SURCHARGE RESERVOIR OUTFLOW SURCHARGE RESERVOIR WATER WONGATED GATED	+)(H+) CC+H+S+) (H+) (C+H+S+) (C+H+S+) (C+H+	2.555.2.5.5.5.0. 100.02.0.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.	0 4688.4 19.6 105.40 105.40 450.4 4704.7 2475 0 4538.45 17 165.86 614.7 4496.4 5113	0 4406.8 15.7 165.77 508.4 4437.6 4446		0 4169.6 12.0 165.59 552.2 4524.5 4991		0 3796.0 6.6 165.52 131.1 4179.1 4310	0	0.532481	2529.41 23529.41 24529.41 25529.41 25529.41 25529.41 25529.41 25529.41 25529.41 25529.41 25529.41 25529.41 2552	0 31744 3746 25 164 73 2746	0 3100:00			0 2738.9	0 266440 = T84.6 164400 0 266440 3085.0 3085	0 2530.2 -22.1 1.63.90 264.8 7 3008	0 2470 8 -25.4 103.54 0. 2863.1 2863.1 2863.1 2863.1 2863.1 2863.1	0 2350.6 -26.9 163.66 0. 2793.2 2793	0 2278.9 -28.5 163.58 0. 2723.5		0 2053.7 =31.8 163.41 0. 2273.4 2273.4 2487	01858.8%	0 1439.3 -38.9 163.06 2.253.7	0 1315.4 -41.7 162.91 0. 2127.4		
	SURCHARGE RESERVOIR OUTFLOW SURCHARGE RESERVOIR WONGATED GATED	(H+) (C+H+S+) (H+) (C+H+S+) (C+H+S+) (C+H+	2.555.2.5.5.5.0. 100.02.0.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.	0 4688.4 19.6 105.40 105.40 450.4 4704.7 2475 0 4538.45 17 165.86 614.7 4496.4 5113	0 4406.8 15.7 165.77 508.4 4437.6 4446		0 4169.6 12.0 165.59 552.2 4524.5 4991		0 3796.0 6.6 165.52 131.1 4179.1 4310	0	0.532481	3342 3 2342 3 23542 5 24 24 34 0 144 34 34 23 3837 0 3837 0 3837 0	0 31744 3746 25 164 73 2746	0 3100:00			0 2738.9	0 266440 = T84.6 164400 0 266440 3085.0 3085	0 2530.2 -22.1 1.63.90 264.8 7 3008	0 2470 8 -25.4 103.54 0. 2863.1 2863.1 2863.1 2863.1 2863.1 2863.1	0 235046 -26.9 163.66 0. 2793.2 2793	0 2278.9 -28.5 163.58 0. 2723.5		0 2053.7 =31.8 163.41 0. 2273.4 2273.4 2487	01858.8%	0 1439.3 -38.9 163.06 2.253.7	0 1315.4 -41.7 162.91 0. 2127.4		

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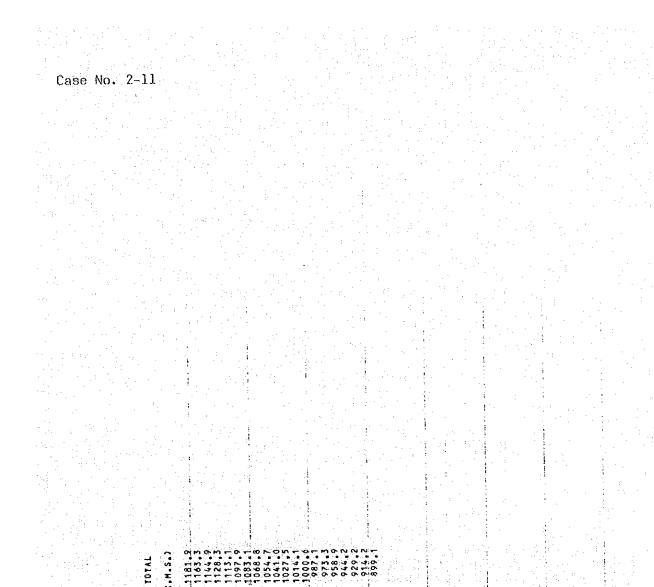
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