CHAPTER 8

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RESERVOIR OPERATION STUDY FOR THE AGOS RIVER SYSTEM

(学校) 新生

8.1 <u>Generated Discharge Series</u>

Case No.	River	Place	Remarks
8-1	Agos	Banugao G.S.	Recorded
82	Λgos	Agos Dam	Natural
8-3	Kanan	Kanan' No.1 Dam	
8-4	Kanan	Kanan No.5 Dam	
85	Kaliwa	Kaliwa Dam	
8-6	Agos	Agos Afterbay Weir	
8-7	Agos	between the confluence and afterbay weir	
8-8	Kanan	between Kanan No.1 Dam and the confluence	
8-9	Kaliwa	between Kaliwa Dam and the confluence	

8.2 Alternative Development Plan A-1

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		8	3	1	3								-0	1)-				1					1	4	5		¢							1	15	5		

Note: Results of the operation study for Kaliwa dam are same with that of plan A-2 (Refer to Case

No.8-14).

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Case No.	Dam		H.W.L. (m AMSL)	Pr (MW)	
8-14	Kaliwa	0	270	- <u> </u> -	$\frac{1}{4}$
8-14 8-15	Kanan No Agos	D•2	295 175	152	
8-16 8-17	-do- -do-		165 155	140 128	
8-18	-do-		145	116	

8.3 <u>Alternative Development Plan A-2</u>

Note: <u>/1;</u> Power generation at Pantay P/S is calculated separately because its data was not available in the course of the study.

8.4 Alternative Development Plan A-3

8.4.1 Kanan No.1 Dam

Case No.	H.W.L. (m AMSL)	T.W.L. (m AMSL)	Pr (MW)
8-19	300	175	138
8-20	300	165	149
8-21	300	155	158
8-22	300	145	168
8-23	290	175	127
8-24	290	165	138
8-25	290	155	147
8-26	290		157
8-27	280	175	115
8-28	280	165	127
8-29	280	155	135
8-30	280	145	144

8.4.2 Kaliwa Dam

Same with plan A-2 except the independent operation of Kaliwa pumped storage plant, Refer to Section 7.2 of Appendix A: Hydrology and Reservoir Operation.

8.4.3 Agos Dam			
			H.W.L. of
Case No.	H.W.L. (m AMSL)	Pr (MW)	Kanan No.1 (m AMSL)
8-31	175	1.52	300
8-32	175	152	290
8-33	175	152	280
8-34	165	140	300
8-35	165	140	290
8–36	165	140	280
8-37	155	128	300
8-38	155	128	290
8–39	155	128	280
8-40	145	116	300
8-41	145	116	290
8-42	145	116	280

		Dia. of H.R.	H.W.L. of
Case No.	Pr (MW)	Tunnel (m)	Agos Dam
8-43	250	8.3	175
8-44	250	8.3	165
8-45	250	8.3	155
8-46	250	8.3	145
8-47	250	7.6	175
8-48	250	7.6	165
8-49	250	7.6	155
8-50	250	7.6	145
8-51	250	6.5	165
8-52	250	6.5	155
8-53	250	6.5	145
8-54	180	8.3	175
8-55	180	8.3	165
856	180	8.3	155
8-57	180	8.3	145
8-58	180	7.6	175
8-59	180	7.6	165
8-60	180	7.6	155
8-61	180	7.6	145
8-62	180	6.5	175
8-63	180	6.5	165
8-64	180	6.5	155
8-65	180	6.5	145
8-66	100	8.3	175
8-67	100	8.3	165
8-68	100	8.3	155
8-69	100	8.3	145
8-70	100	7.6	175
8→71	100	7.6	165
8-72	100	7.6	155
8-73	100	7.6	145
8-74	100	6.5	175
875	100	6.5	165
8-76	100	6.5	155
8-77	100	6.5	145

8.4.4 Kaliwa Pumped Storage Plant

Note: H.W.L. of Kanan No.1 dam of 290 m AMSL is assumed.

8.5 <u>Alternative Development Plan B</u>

8.5.1 Kanan No.5 Dam

Case No.	H.W.L. (m AMSL)	T.W.L. (m AMSL)	Pr (MW)
8-78	<u>(11 AN31)</u> 260	<u>(m. 141315)</u> 25	280
8-79	260	25	200

8.5.2 Kaliwa Dam

Same with plan A-2.

8.6 Water Supply Benefit

Case No.	Plan	Reservoir	Remarks
8-80	A-2	Kaliwa	Common for every plan
8-81	A-2	Kanan No.2	- do -
8-82	A-3	Agos	Common for every scale of Agos and Kanan No.1 dams. Water requirement can be fulfilled.
8-83	A-2	Kaliwa	Simulated spilt water series.
8-84	A-2	Kaliwa	Simulated supplied water series.
8-85	A-2	Kanan No.2	- do -

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	SIPPON KOEL	
•	PROJECT	
	AGOS H.E.	
	f FOR A	
	SYSTER	
	RIVER	
	A 605	
	SERIES OF AGOS RIVER SYSTEM	
	TION OF DISCHARGE SERIES OF AGOS BIVER SYSTEM FOR AGOS H.F. PROJECT	
	TIMATION OF	
	ESTIX	

RECORDED MONTHLY DISCHARGE SERIES AT RANUGAO ON AGOS RIVER

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ANNUAL	141-59	143.26	128.01	107.00	116 22	185.08	- 22 - 27	103.96	96.60	7 C V 1		130.51	.112.21	104.56	140.24	111.42	102.40	102.19	28.35	71.84		110.26	183.82	137.63	123.51	170.95	122.25
DEC	386-36	297.24	-10-10	414.52	191 60	550.70	73 54	68.95	205 25	Y		116.46	185.21	1.92_50	297.78	306.72	261-42	183_30	28.24	300.75		228.58	143.03	231.45	612 60	28.10	285.30
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SEP.	61-29	108.25	40.31	51.11	75 2	1.54.16	61.28	90.36	69.82	14.0 4.0		2112	203.40	143.33	115.67	72.58	83.62	79.42	93.67	69.06		118.77	53.56	130.04	55-40	123,80	148.90
AU6.	1.62,92	157,82	106.79	45.13	37.45	99.65	-81-86	66.20	60.09	218 S.K		00.01	29.98	103.67	113.68	58.37	32.24	105.50	20.55	57.70		26.97	103.18	1.93.14	44.80	85.80	130.50
1014	54.04	50.26	34.32	32.66	50.13	16.79	32.53	91.39	41.75	06 62		× • • •	99.44	61.80	96.23	68.14	33.93	51.04	48.79	37.42		37.47	267.25	314.99	64.30	101-00	45.00
JUNE.	12.19		56.10	2.6.51	65.03	75.85	23.00	74.29	26.40	4 4 4 4 4		10.00		48.27	65,87	.27.27	31.50	65.33	29.32	12.60		24.36	232.20	66.17	59.80	. 33. 10	43.40
MAY	94.19	32.66	27-88	32.12	31.96	76.06	21.65	78.19	21,23							26.63							194.96	64. 93	44.70	45.60	32.20
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MAR.		49.80					1.15	73.31	137,06	55 40		1 1.7 0.2	12.2	61.04	126.17	70.98	10.07	74.45	169,11	43.11		24 58	161.45	77.77	56.50	118.20	42.20
FEB.	13.61	135.38	188.07	106.40	74 20	1.18.30	39,98	78.63	92.21	183 22			153.01	161.74	151,59	113.68	75.55	77.33	149.49	34.49		56.51	175 54	0 6 5 5 S	105.30	191.70	72.70
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TOTAL 4410, 67 30 MEAN 169, 64 1

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Case No. 8-1

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ESTIMATION OF DISCHARGE SERIES OF AGOS RIVER SYSTEM FOR AGOS H.E. PROJECT RESERVOIR FOR THE TARGET YEAR 1986 ESTIMATED INFLOW SERIES INTO AGOS

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NDV- 198.73 370.90 100.45	113.12 258.255 251.94 251.94 174.11	123,45 264,61 129,01 97,70 289,13	204. 65 259. 69 203. 77 102. 25	257.85 234.08 176.03 288.81 239.83 204.83	5346.38 b
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805.83 67.83 151.22 146.51 99.11	41.89 92.51 75.99 75.99 75.99 78 78		54,19 34,57 97,94 84,00 51,50	25.04 95.78 179.29 41.59 79.65	N .
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1UNE 24-50 45-05 45.03	21.58 51.58 61.75 60.28 48 50.48 50.48	71.73 62.12 28.35 39.30 53.63	22.20 23.52 23.21 23.21 23.21 23.21	19.83 195.83 53.87 53.87 53.87 53.87 53.87 53.87 55.95 25.95 25.95 25.95	162,98.1
AAY 26.44 80.18 27.80 23.73	27 34 27 21 27 21 28 53 66 56	59,54 85,70 29,67 21,32 38,67	22.67 63.02 38.28 27.92 13.21	14.02 165.26 55.27 38.05 38.82 38.82 38.82 38.82 38.82 38.82	120.08.1
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211.78 211.78 215.75 216.55 2160.76	144 146 146 146 146 146 146 146 146 146	137.58 175.14 149.31 131.95	173.08 89.92 180.08 133.49 73.51	130.91 114.85 122.98 81.17 186.55 186.35	3938.74 2 151.49
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Case No. 8-2

NIPPON KOEI ESTIMATION OF DISCHARGE SERIES DE AGOS RIVER SYSTEM EOR AGOS H.E. PROJECT

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ESTIMATED INFLOW SERTES INTO KANAN NO.1 RESERVOIR

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ESTIMATED INFLOW SERIES INTO KANAN NO.5 RESERVOIR

ESTIMATION OF DISCHARGE SERIES OF AGOS RIVER SISTEM FOR AGOS H.F. PROJECT

Case No. 8-4

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ESTIMATION OF DISCHARGE SERIES OF AGOS RIVER SYSTEM FOR AGOS M.E. PROJECT			

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NIPPON KOEI ESTIMATION OF DISCHARGE SERIES OF AGOS RIVER SYSTEM FOR AGOS H.F. PROJECT

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NIPPON KOEL TOKYO/JAPAN ** PLAN AT KANAN HEL 290 EVEL IN METER DAH OUCULTER .* RESERVOIR OPERATION STUDY OF AGOS

CCT . 38,188 SEP. 38.188 . AUG. 38,188 CURVE VARIABLE MASS TN NETER RATED DISCHARGE HIGH WATER L

38,188 38,168 38.186 38,18 RULE CURVE IN MWH

LENGTH OF INFLOW SERIES IN YEAR 26

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** RESULTS OF THE CASE HWLT 175,000 INSTALLED CAPACITYE 200,0 STOKED IN DISK FILE ALBIBAD2 NO.

*** DEPENDABLE DISCHARGE , POWER OUTPUT AND ENERGY OUTPUT ***

200,00 DEPENDABUE 95.0 DEPENDABLE 00.00 C MS

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MITON STUDY FOR THE TARGET VEAR 1989       MITON STUDY FOR THE TARGET VEAR 1980       MITON STUDY FOR THE TARGET VEAR 1980 <th>110N       STUDY FOR THE TARGET VEAR 1989       ***         110N       STUDY FOR TTALLS       ***       ***         110N       STUDY FOR THE TARGET VEAR 112 TH MONTH       ***       ***         110N       STUDY FOR THE TARGET VEAR 112 TH MONTH       ***       ****         110N       STUDY FOR THE TARGET VEAR 112 TH MONTH       *****       *****</th> <th>8 8</th> <th>0</th> <th></th> <th>MAR 58.18</th> <th>10 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×</th> <th>2.84</th> <th>8,18</th> <th>พา 2 2</th> <th>6 - √ 19</th> <th>004 - 88 - 88</th> <th>S P + B</th> <th>0CT 8,18</th> <th>2 V V 2 V V V V</th> <th>5 - C 2 - C</th>	110N       STUDY FOR THE TARGET VEAR 1989       ***         110N       STUDY FOR TTALLS       ***       ***         110N       STUDY FOR THE TARGET VEAR 112 TH MONTH       ***       ***         110N       STUDY FOR THE TARGET VEAR 112 TH MONTH       ***       ****         110N       STUDY FOR THE TARGET VEAR 112 TH MONTH       *****       *****	8 8	0		MAR 58.18	10 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	2.84	8,18	พา 2 2	6 - √ 19	004 - 88 - 88	S P + B	0CT 8,18	2 V V 2 V V V V	5 - C 2 - C
OG         S2         R,M.LL         T,W.LL         E,HEAD         EFFICT         POWER         D,HOUR         P.E.         T, T           11000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         1000         10000         10000         10000	DG         S2         R.W.L.         T.W.L.         E.HEAD         EFFICI         POWER         D.HOUR         P.E.         T.E.           85.70         891.00         174         100         174         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100         100	S IN YEAR 26 Reservoir of	8 N O N	С Ш	TION STU	Y FOR THE TA	× ۳	E▲R 198	•						
ICHN3       (HH)       (H)       (H) <t< td=""><td>(1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)</td><td>PILL 02</td><td>02</td><td></td><td>90</td><td>2 R. H.</td><td>÷</td><td></td><td>EAD E</td><td>FIC</td><td>010</td><td></td><td></td><td>ມ ທ</td><td></td></t<>	(1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)       (1)	PILL 02	02		90	2 R. H.	÷		EAD E	FIC	010			ມ ທ	
183       73       41000       129       654       384.79       384.79       384.79       384.79       384.79       384.79       384.79       384.79       384.79       384.79       384.79       384.79       384.79       384.79       384.79       384.79       384.79       384.73       450.71       384.73       450.71       384.73       450.71       384.73       450.71       384.73       450.71       384.73       450.71       384.73       450.71       384.73       450.71       384.73       450.71       384.73       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.71       450.7	25.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7       88.7	CHS) (CH	5		CHSI	HCH /					Ē	Î	E E	(HH)	0
18.12       591,05       17,14,14       14000       129,000       20,10       217,10       217,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10       214,10	85,22       970,105       174,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       129,1000       120	7,19 132,	4 0 0 0 0 0		83,07	2,69,174	Т. мо		 	40 4 60 6 	ge	89.9		34 24	50
184:55       5:27:0       5:20       217:0       217:0       5:22       4:22         195:55       5:27:10       4:1000       122       5:27       38:19       5:22       4:15         195:55       5:52       6:10       126       57       0       86:19       7:25       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122       4:100       122 <td>86'55 599'10'72'1669 41'0'00 126'50'7 0,860 200'0 215'2 38'19 4.85 43' 87.55 599'10'72'118 41'0'00 126'50' 0,860 199'7 235'2 38'19 4.85 43' 94.55 597'19 66'449 41'0'00 127'840 0,860 199'7 235'5 38'19 4.85 74' 95.55 597'19 66'449 41'0'00 127'840 0,860 199'7 235'5 38'19 4.85 74' 95.55 597'19 66'449 41'0'00 127'840 0,860 199'7 235'5 38'19 4.85 74' 95.57 155 597'19 16'7'10'0 127'840 0,860 199'7 235'5 38'19 18'26'55' 95.57 13'5 57'19 41'0'00 127'840 0,860 200'0 244'6 35'19 18'26'55' 96.55 577'17'12'69 41'0'00 128'740 0,860 200'0 4.94'5 35'19 18'26'55' 96.55 577'17'12'269 41'0'00 128'740 0,860 200'0 4.94'6 35'19 18'26'55' 17.FE.LUNGEST DURATION 5 CONTINUOUS MONTH ### 17.FE.LUNGEST DURATION 5 CONTINUOUS MONTH ### 18.4,1 0'0'7,55'590 0,860 200,0 30'5' 3'5'3'7'7'7'7'7'7'7'7'7'7'7'7'7'7'7'7'7'</td> <td></td> <td>- in</td> <td></td> <td>83.22</td> <td></td> <td></td> <td></td> <td></td> <td>0.90 0.00</td> <td>5.0</td> <td>1.0</td> <td></td> <td>23.18</td> <td></td>	86'55 599'10'72'1669 41'0'00 126'50'7 0,860 200'0 215'2 38'19 4.85 43' 87.55 599'10'72'118 41'0'00 126'50' 0,860 199'7 235'2 38'19 4.85 43' 94.55 597'19 66'449 41'0'00 127'840 0,860 199'7 235'5 38'19 4.85 74' 95.55 597'19 66'449 41'0'00 127'840 0,860 199'7 235'5 38'19 4.85 74' 95.55 597'19 66'449 41'0'00 127'840 0,860 199'7 235'5 38'19 4.85 74' 95.57 155 597'19 16'7'10'0 127'840 0,860 199'7 235'5 38'19 18'26'55' 95.57 13'5 57'19 41'0'00 127'840 0,860 200'0 244'6 35'19 18'26'55' 96.55 577'17'12'69 41'0'00 128'740 0,860 200'0 4.94'5 35'19 18'26'55' 96.55 577'17'12'269 41'0'00 128'740 0,860 200'0 4.94'6 35'19 18'26'55' 17.FE.LUNGEST DURATION 5 CONTINUOUS MONTH ### 17.FE.LUNGEST DURATION 5 CONTINUOUS MONTH ### 18.4,1 0'0'7,55'590 0,860 200,0 30'5' 3'5'3'7'7'7'7'7'7'7'7'7'7'7'7'7'7'7'7'7'		- in		83.22					0.90 0.00	5.0	1.0		23.18	
187,05       599,40       172,118       41,000       122,734       139,45       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15       45,15	87,05       552,57       170       176       1600       225,74       38,19       4,65       4,55         94,55       552,57       170       01860       200,0       214,41       38,19       4,15         95,55       557,19       170       01860       122,07       01860       200,0       214,41       41,000       122,07       01860       200,0       214,41       41,000       122,07       01860       108,12       200,05       122,04       01860       128,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,10       128,195       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,19       018,11       018,19       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11       018,11<	55	22		64,56	0 25 173		000 12	a. D	80	8	17		5.23	
1994 (5)       552 (57)       574 (56)       136 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57)       566 (57) <t< td=""><td>94.67 952.67 100 122100 1221734 0.860 2001 0201 0201 020100 1221734 0.860 1981 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 0.861 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186,15       538,52       17,17       11,000       126,73       126,73       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105       126,105 <t< td=""><td>86,15 53 52 77 37 72 57 1641 41 COC 126 755 0 1660 198 3 576 1 38 19 75 55 7 127 127 127 127 127 126 128 740 0.800 200 0 10 10 128 740 0.800 200 128 74 127 128 128 128 128 128 128 128 128 128 128</td><td>4,56 99,3</td><td></td><td></td><td>90.45</td><td>19 169</td><td>1 H</td><td>000 12</td><td>: 1</td><td>1.0</td><td>88</td><td>0</td><td></td><td>40.52</td><td>2</td></t<>	86,15 53 52 77 37 72 57 1641 41 COC 126 755 0 1660 198 3 576 1 38 19 75 55 7 127 127 127 127 127 126 128 740 0.800 200 0 10 10 128 740 0.800 200 128 74 127 128 128 128 128 128 128 128 128 128 128	4,56 99,3			90.45	19 169	1 H	000 12	: 1	1.0	88	0		40.52	2
184,56 673,35 173,747 41,000 128,740 0,660 200,0 044,6 35,49 84,03 122 5 TIMES 5 T	84,96       \$73,35,173,747       \$1,000       128,740       \$1,000       128,04       \$1,000       128,04       \$1,000       128,04       \$1,000       128,04       \$1,000       128,04       \$1,000       128,04       \$1,000       128,04       \$1,000       128,04       \$1,000       \$1,000       128,04       \$1,000       128,04       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,000       \$1,00	34.44 .47.4	47.1	1	86,15	9,52 171,	1.5	C00 12		98.	86	76	-1. m	76.63	
<pre>188.07 405.77 171.269 41,000 126,063 0.860 199.3 4225.7 458.25 584.94 844. 5 THES 5 THE LONGEST DURATION 5 CONTINUOUS HONTH ### LOWEST POWER 153.3 MW ATION STUDY FOR THE TARGET YEAR 1994 ## ATION TARGET YEAR 1994 ## ATION TARGET YEAR 1990 128 9860 20000 0 000 0 000 0 000 0 000 0 000 0 000 0</pre>	B8.07       405.77       474.269       41.000       126.063       0.000       199.3       4225.7       458.25       584.94       84.0         THES       HTER       7-FH       MONTH TO       5       CONTINUOUS HONTH FREE       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td>9,07 151,3</td> <td>51,3</td> <td>1.1</td> <td>84,56</td> <td>3,35,173,</td> <td>7 4 4</td> <td>C00 12</td> <td></td> <td>88</td> <td>00</td> <td>-</td> <td></td> <td>84,70</td> <td>č,</td>	9,07 151,3	51,3	1.1	84,56	3,35,173,	7 4 4	C00 12		88	00	-		84,70	č,
OF THE LONGEST DURATION 5 CONTINUOUS HONTH FOR LONGEST DURATION 5 CONTINUOUS HONTH FOR LONGEST DURATION 5 CONTINUOUS HONTH FOR LONGEST POWER 153.3 MH LONEST POWER 7.5.3 MH LONEST POWER 7.5 MH POWER 7.5	THE LONGEST DURATION 5 CONTINUOUS AONTH ##       LOWEST POWER 153.3 MH         TIMES       THE LONGEST DURATION 5 CONTINUOUS AONTH ##       LOWEST POWER 153.3 MH         A VEAR       7.74 MONTH TO 20-TH VEAR 11.74 MONTH       LOWEST POWER 155.3 MH         CAS       52       Ruich       Tuby Fon THE TARGET VEAR 1994 ***         CAS       52       Ruich       Tuby Fon THE TARGET VEAR 1994 ***         CAS       52       Ruich       Tuby Fon THE TARGET VEAR 1994 ***         CAS       52       Ruich       Tuby Fon THE TARGET VEAR 1994 ***         CAS       52       Ruich       Tuby Fon THE TARGET VEAR 1994 ***         CAS       52       Ruich       Tuby Fon The Target VEAR 1994 ***         CAS       52       THE VEAR 1994 ***       THE         CAS       54       THE       THE         B4,13       TTAR       THE       THE         B4,14       D00       29       200.0       305.5         B4,14       D00       200.0       200.0       305.5       21.7         B4,13       TTAR       THE       THE       THE       57.4         B4,14       D00       200.0       200.0       25.5       21.7       45.5         B4,13	10,12 89,5		م	8.C7	2,77 171		COO 12		8	6	ŝ	ດ. ຄ	384.94	м) Ч
О-ТН         ТЕК         7-ТН         НОИТН         TO         ZOO-TH         YEAR         1-TH         HONTH         TO         ZOO-TH         YEAR         2-TH         YEAR	H YER 7-TH MONTH TO 20-TH YEAR 11-TH MONTH LOWER 153.3 MM LOWER 7.1 TH MONTH TO 20-TH YEAR 11-TH MONTH LOWER 153.3 MM LOWER 11 10 10 10 10 10 10 10 10 10 10 10 10	HER DE	DEFIC	이 지 같	F THE LO	GEST DURATI	ທ z	ONTINU	HONT	4					
DN STUDY FOR THE TARGET YEAR 1994 *** CHOS S2 R W (L T W) L. E.HEAD EFFICI. POWER 0, HOUR P'E' SET (CHOS S2 R W (L T W) L. E.HEAD EFFICI. POWER 0, HOUR P'E' SET 84,74 49,17 1,77 41,000 128 985 0,860 200,0 306,5 39,13 35,35 71,45 84,74 49,17 1,77 41,000 128 985 0,860 200,0 306,5 39,13 35,35 71,45 84,74 49,17 1,77 41,000 128 985 0,860 200,0 306,5 39,13 35,35 71,45 86,27 45 55 85 169 687 41,000 128 565 0,860 200,0 216,0 306,5 39,13 35,35 71,45 86,23 537,44 555 85 169 686 200,0 218 3 59,13 35,35 74,53 86,33 537 41,000 128 565 0,860 200,0 216,0 306,5 339,13 35,35 74,53 86,33 537 41,000 128 545 0,860 199,5 226,0 306,5 339,13 57,7 74,9 81,17 554 77 41,000 122 264 0,860 199,5 226,3 39,13 57,77 74,9 93,045 533,59 167,700 41,000 122 264 0,860 199,5 226,3 39,13 57,79 44,9 93,05 533,59 167,700 41,000 122 264 0,860 199,5 226,3 39,13 57,77 74,9 93,05 533,59 167,700 41,000 122 264 0,860 199,5 226,3 39,13 57,9 44,9 93,01 533,59 167,700 41,000 122 264 0,860 199,5 226,3 39,13 57,77 74,9 81,17 564,149 0,860 122 264 0,860 199,5 226,3 39,13 57,77 74,9 93,01 100 122 144 00,860 129,13 70,13 70,13 70,13 70,13 70,13 70,14 70,8 81,17 564,149 0,860 129,14 0,860 128 141 0,860 129,13 70,13 70,13 70,14 70,8 81,17 564,149 0,860 129,14 10,860 128 141 0,860 129,13 70,13 70,13 70,13 70,13 70,14 19 81,17 564,149 0,860 129,14 10,860 120,13 70,14 70,800 120,13 70,14 70,800 120,10 120,14 10,10 122 106,18 10,10 122 100,12 70,14 10,10 122 100,12 70,14 10,10 122 10,10 10,12 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 100,12 70,14 10 10,12 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,10 120 10,00 120 10,10 120 10,10 120 10,10 120 10,10 10,10 120 10,10 120 10,10 120 10,10 120 1	DN STUDY FOR THE TARGET YEAR 1994 *** CHS1 (ACM) (ACM) THE TARGET YEAR 1994 *** (CHS1 (ACM) (ACM) THOMAN (ACM) (ACM) (ACM) (ACM) (ACM) 84,17 667 55 174,059 41,000 128 960 200,0 306,0 309,13 6570 101,1 84,17 667 55 174,059 41,000 128 960 200,0 306,5 309,13 6570 101,1 84,17 555,85 177,059 41,000 128 960 200,0 250,0 309,13 65,07 101,1 86,21 85 172,226 41,000 128 565 0,860 200,0 250,0 309,13 65,07 101,1 86,21 85 172,226 41,000 128 565 0,860 200,0 250,0 309,13 65,13 65,07 86,23 552,88 172,66 174,000 128 565 0,860 200,0 250,0 250,0 309,13 57,9 45,9 88,33 550,49 168,77 41,000 128 565 0,860 200,0 214,0 39,13 52,18 45,9 90,14 555,88 172,724 41,000 128 565 0,860 198,5 226,3 39,13 57,7 45,9 92,34 557,88 168,77 41,000 128 545 0 0,860 199,5 226,3 39,13 57,7 45,9 92,34 557,88 168,77 41,000 128 545 0 0,860 199,5 226,3 39,13 57,7 45,9 92,34 557,88 168,77 41,000 128 544 0,860 198,5 226,3 39,13 57,7 45,9 92,34 557,88 168,77 41,000 128 144 0,860 198,5 226,3 39,13 57,7 45,9 92,14 556,83 170 41,000 128 144 0,860 198,5 226,3 39,13 57,7 45,9 92,16 662 71 173,501 41,000 128 144 0,860 198,5 226,3 59,13 57,7 45,9 92,16 662 71 173,501 41,000 128 144 0,860 198,5 226,3 59,13 57,7 74,13 57,7 74,13 57,14 55,15 55,10 1860 199,0 54,13 50,15 57,7 74,19 55,10 1860 199,0 54,13 50,15 57,7 74,19 55,15 55,15 54,10 1860 128 144 0,860 199,0 54,13 50,15 57,7 74,19 55,15 55,15 54,10 1860 199,0 54,13 50,15 54,15 55,15 54,10 1860 128 144 0,860 199,0 54,13 50,15 54,15 55,15 54,10 0,12 54,14 0,16 120,12 54,15 55,15 54,15 55,15 54,15 55,15 54,15 54,15 55,15 54,15 54,15 55,15 54,15 55,15 54,15 55,15 54,15 54,15 55,15 54,15 54,15 55,15 54,15 55,15 54,15 55,15 54,15 55,15 54,15 54,15 55,15 54,15 54,15 55,15 54,15 54,10 128 144 144 144 145 144 145 144 144 144 144	HON FROM	FROM		H YEA	HINOW HI-	0.20	TH YEAR	1-1H	HLNO		LOW	EST PONE	153,	
B4-AL         FLWIL         E-HEAD         EFFICI.         POWER         0.400 Pit         Sit         Sit           C(MS)         (M)         (M)         (M)         (M)         (M)         (M)         (G)           B4-AL         667 58         17.00         128 985         0.860         200,0         506,0         39.43         65.74           B4-AL         657 66         174,059         41,000         128 985         0.860         200,0         35.65         39.43         65.74         67.44           B4-AL         657 66         17.4059         41,000         128 50.1         0.860         200,0         35.65         0.913         65.74           B4-AL         657,4         64         41,000         128 50.1         0.860         200,0         35.45         0.860         201,0         35.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45         0.45	GGM       SZ       R, w(L)       T, w(L)       EHEAD       EFICI.       POWER       0. HOUR       P/E       SE       7. E         (CMS)       (MR)       (M)       (M)       (M)       (M)       (GW)	RESERVOIR OPERA	IA OP		× sTu	OR THE TA	RGET	EAR 199							
(CMS) (MCM) (M) (M) (M) (M) (M) (M) (CMM)	(C.MS)       (MCK)       (M)	SPILL 02	024		11	х н <u>к</u>			Q Y D	FICI.	1 H H H	3	( <b>.</b>	μ	1.1
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186.71       621.85       172.726       1.000       226.201       0.860       200.0       216.0       59.13       4.53         190.44       555.85       157.143       41.000       226.201       0.860       200.0       244.0       39.13       4.73         192.45       552.85       157.143       41.000       22.149       39.13       4.73         192.45       557.85       141.000       128.00       128.0       214.0       39.13       4.60         192.45       557.85       141.000       122.319       0.860       199.1       214.7       39.13       4.60         192.65       53.05       141.000       122.264       0.860       199.1       214.7       39.13       57.79       4.93         192.65       53.65       0.860       198.5       226.3       39.13       57.73       4.60       4.73         192.45       0.860       198.6       198.6       214.1       0.860       203.6       57.73       57.72       57.72       57.72       57.72       57.72       57.72       57.72       57.72       57.72       57.72       57.72       57.72       57.72       57.72       57.72       57.72       57.72       57.72	86,21       821       821       82       82,1       85,12       726       81,000       227       89       83       83,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,13       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,12       84,13       84,13       84,13       84,12       84,13       84,13       84,13       84,13       84,13       84,13       84,13       84,13       84,13       84,13       84,13       84,13       84,13       84,13		75.77			17 173	4		2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3	0				1 N	က္
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DAM ** PLAN ANT KANAN WWL 290 ** RESERVOIR OPERATION STUDY OF AGOS

NIPPON KOEI TOKYOZJAPAN IN HETER 185,000 LOW WATER 185,000 DEPENDABLE HIGH WAYER LEVEL IN METER Installed Capacity in Mu Rated Discharge in CMS 

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Case No. 8-11

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DAM ... PLAN ATT KANAN HUL 290 ** RESERVOIR OPERATION STUDY OF AGOS

ER 128,000 RATED HEAD IN WETER ...... 1 Hu 239,526 Targer Operation Hour A Day Vahiable Mass Curve HETER RULE CURVE LEVEL LOW WA. 105.000 185.000 221.277 HIGH WATEH LEVEL IN METER Installed Capacity In MM Rated Discharge in CMS

31,250 CCT. 31,250 MAY JUNE JULY AUG SEP. 31,250 31,256 31,256 31,256 31,256 31,250 RULE CURVE UNNHHUD 31,250 51,250 31,250

DEC. 31,250

NIPPON KOEI TOKYOZJAPAN

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LENGTH OF INFLOW SERIES IN YEAR 26

*** HONTHLY SUMMARY OF RESERVOIR OPERATION STUDY FOR THE TARGET YEAR 1989 ***

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	S E	CHHO	69.82	35,85	24, 62	6.55	5.95	5.37	9 93	16.60	22,00	46.12	78,53	83,67	405.24	
	ш а.	GWW	31.25	31,25	31.25	35.25	31,25	31.25	31.25	31,25	31.25	31,25	31,25	31, 25	375.00	
	O HOUR	(H).	546.0	362.6	302.0	204.3	201.1	197.9	223.0	264.9	290.4	420.3	- 204° 0	621.2	4225 9	
	POWER	(MM)	185.0	0 10 10	185.0	165.0	165.0	165 0	184.0	483.33	182.7	183,3	163,7	185.0	84,4	
	EFFICI		0.840	0.660	0,860	0.860	0,860	0,860	0,860	0.860	0,860	0,860	0,860	0.860	0,860	878 X-Z
• •	EHEAD	(H)	120	110	119	8	117	115;581	113	12	112.	115	2	119		ENUOUS NO
· .	T. U. L.	Ψ	41,000	11,000	41,000	41,000	41,000	41,000	41,000	41,000	000 * T *	41,000	41.000	41,000	41,000	5 CONT
	R. W. L.	IN)	164,944	164.956	157, 151	164,019	1.62,714	160.877	158,617	157,755	158,289	160,549	162,608	164,333	162,015	URATION
	S2	(HOH)	540.42	538.72	14.155	510 82	480,04	445.62	403.01	418.62	132.06	486.49	510,16	536 16	485,82	ONGEST
	90							190,21								OF THE L
	024	(CHS)	134.30	98.68	74,33	52 29	50,32	51,99	57.41	67.1J	76.20	104,86	151.85	152,95	89,36	DEFICIT
	SPILC	(CHS)	7,16		•	0	0	10.01	3,85	1,18	0	14.63	36,62	60.07	10.46	PONER
	EVAPO.	(CHS)	10.91	1.17	1.35	19.5	1.23	0,87		0.53	0,70	0,70	0,68	0.74	0.92	THERE ARE
	ENFLOW	(CHS)	56°2*T	99,15	72,95	45,88	0 • 0 • 0 • · ·	39.60	46,03	74,66	82.15	140.51	195,28	224,28	100.74 0.92	*
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LOWEST POWER 141.7 MM TIGLIS OCCURED & LINES DURATION FROM 20-TH YEAR 7-TH MONTH TO 20-TH YEAR 21-TH MONTH *** MONTHLY SUMMARY OF RESERVOIR OPERATION STUDY FOR THE TARGET YEAR 1994 *** THESE DEFICITS OCCURED 3 TIMES Longest Duration From 20-TH YEAK

	TNFLOW.	EVAPO.	SPILL	024	90	52	В В	•	T.W.L.	E HEAL	DEFFICI	PONE	~		м Ш	
	(CHS)	(CHS)	(CMS)	(CHS)	(CHS)	(HOH)	(H)	, ,		Ŧ		(MH)		÷	(CHHD)	-
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	97,28	1.16	•	97.49	184.31	523 90	164.2	25	000	119.17		185.0	- 1		30.94	έφ Γ
	71,98	55,4	0	75,24	185,05	511.47	163.7	8 ₂₀	000	118 72		50 T 85		÷.	21.15	١Ū.
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11	44.42	0.86	0	55,06	191,91	426.65	159,8	11.	000	14,47	÷	184.6		j.	3,70	Đ,
	48.61	0.67		55.00	194.25	408.14	158 3	2 2	000	12.85		8		1		Ň
	58,50	0.53	0	57,71	194,51	+08 8C+	157.6	÷È	000	12 12	i.	281.0	÷.,	÷.	5.73	*
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÷.,	86,71	0,68	58.0	70.81	192,45	442 86	158.7	6	000	13.355	- 10	183.2		1	15,91	ຫັ
	139,89	0.66	1.42	109 67	188.62	500,25	101.5	۰.	000	16.47		184		Ľ,	*0. NB	~
	182,53	•	38.64	135,02	185,37	522,03	103.5	na in Grad	000	18.610	1	185.0			50.09	9
. 11	64,43	0,91	4.61	78.92	189.31	469,17	161,140	5.	000	115,90		1.01	3698.9	1	262,11	68

LOWEST POWER 142.0 NW

6-TH HONTH TO 24-TH YEAR 10-TH HONTH

NIPPON KOEL TOKYOZJAPAN DAM ** PLAN ALL KANAN HUL 300 ** RESERVOIR OPENATION STUDY OF AGOS

OW WATER LEVEL IN HETER TN NETER HIGH WATER LEVEL IN METE Installed capacity 14 M Rated Discharge In CMS

25,456 25,454 25,454 25,656 25,656 25.65 25,656 25,65 25,656 25.656 RULE CURVE IN HWH

DEC. 25,656

25,656

LENGTH OF INFLOW SERIES IN YEAR 26

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O.HOUR PONER T, W, L, E, HEAD EFFICI 420 SUMMARY OF RESERVOIR OPERATION STUDY FOR EACH TARGET YEAR 1.307 024 06 (CHS) (CHS) 89.37 187.45 29.10 190.16 SPILL CHS) 0,74 0,74 EVAPO, (CMS) ENFLOH (CMS1 400.74 84.24 *** YEAR 1989

FILE ALSISHO2 NO. 3

*** RESULTS OF THE CASE HWLE 155,000 INSTALLED DAPACITYE 170,0 STORED IN DISK

, POWER OUTPUT AND ENERGY OUTPUT *** DEPENDABLE DISCHARGE

31.7 ENDABL 90.06 DEPENDABLE 129.33 500.0 37.20 37.20 YEAR 1989 1994

86. 650. 25.	7 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Т. Т. (С. Н.) (С. Н.)	60 14 15 15 15 15 15 15 15 15 15 15 15 15 15	
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NIPPON KOEL TOKYO/JAPAN

** RESERVOIR OPERATION STUDY OF AGOS DAM ** PLAN AFT NANAN HWL 300

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Case No. 8-12

288

DEPENDABLE

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YEAR 1989

10 (R) II.

POWER OUTPUT AND ENERGY OUTPUT

*** DEPENDAULE DISCHARGE

NIPPON KOEI TOKYO/JAPAN L14,000 RATED HEAD IN METER ..... 82,600 116.326 TARGET OPERATION HOUR A DAY 4,31 LLE MASS CURVE JULY AUG. 56P, 007, 20,719 20,719 20,719 DAN ... PLAN A-1 KANAN HUL 300 TTY EN MM EL IN METER 145,000 -1.04 WAT 155,000 DEPENDA 222,652 TYPE 05 ** RESERVOIR OPERATION STUDY OF AGOS HIGH WATER LEVEL TN METER Installed Capacity TN MM Rated Discharge IN CMS ** RESERVAIR OPE HISTALLED CAPACIT RATEL DISCHARGE L RULE CURVE IN MM

Case No. 8-13

20.71 20.7

NOV, DEC.

NIPPON KOEL TOKYO/JAPAN DAM ** PLAN A-1 KANAN HUL 300 ** RESERVATE OPERATION STUDY OF AGOS

82,600 RATED HEAD IN METER ..... 00.87 116,326 ,E MASS 114,000 UNE NUNE 4 VARIAB 34 N. HELEK Ĩ LEVEL: IN' LOW WATER 1,45,000 2 1 IN METER INSTALLED CAPACITY IN MURATED DISCHARGE IN CHS HIGH WATER LEVEL

20,719 SEP. 20,719 20,719 20,719 20,719 20,75 20,71 20,719 20.719 RULE CURVE IN HWM

20.71

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LENGTH OF INFLOW SERIES IN YEAR 26

*** MONTHLY SUMMARY OF RESERVOIR OPENATION STUDY FOR THE TARGET YEAR 1989 ***

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с.	(HNS)	64,77	G5,18	24,91	8,49	7,29	6 5 4	10.40	20,57	23, 78	52,08	13,54	78,35	405,90
Р, Е,	(GWH)	20,72	20.72	20,72	20,72	20, 72	20,72	20,72	20,72	20,72	20.72	20.72	20,72	248,63
0, HOUR	(H)	551.6	360 7	294.4	\$88.4	180.7	175,8	201.3	268 6	289.4	470.9	608 4	639.1	1.9224
PONER	[MH]	155.0	155.0	155,0	155.0	155,0	155.0	154 5	153,0	152 9	153.9	154.7	155,0	154 5
FFICI.		0,860	0.8.0	0,8.60	0.860	0.840	0.800	0,8,0	0,860	0,860	0.860	0.860	0.800	0,860
E, HEAD E	Ŧ	.00.050	00,019	90.908	99.461	98.447	96.924	94 912	94 533	05 A 8	97 705	901 56	00 037	98,030
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624	(CHS)	136,27	98,66	72.78	48.32	45,49	46.06	51,50	68,11	75,28	117,10	155.68	157.92	89,42
SPILL	(CHSI)	7,05	0	0	0	0	0	06.0	1.5	0	14.50	36.65	63.66	10.67
EVAPO.	(CHS)	0.62	0 8 1	0,93	1.06	0,8,0	, Lò D	0 48	0,38	0.50	0 50	0 47	0.52	D, 64
INFLOW	CHS.	143.95	11 00	72.95	45 88	40.06		1.6.03	74.66	82.15	1+n 51	198.28	224.28	100,74
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LOWEST POWER 11912 MM HE LONGEST DURATION 5 CONTINUOUS HONTH *** TH YEAR 7-TH HONTH TO 20-TH YEAR 11-TH MONTH ONG

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*** MONTHLY SUMMARY OF RESERVOIR OPERATION STUDY FOR THE TARGET YEAR 1994 ***

1 * U *	78,00 54,88	46.20	31-38 31-38	33,84	10°00	572,28
S,E, (GUH)	27.35	4 8 4 5 6 6 4 5 7 10 0	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5 6 2 8	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	241,90
P.E. (GHH)	27 53	20 0 1 20 0 20 0 20 0 20 0 20 0 20 0 20	24. 24. 24. 24. 24. 24. 24. 24. 24. 24.	27.53	27.53	330, 38
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00 CMS)	185,08	185,51	0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7 9 0 4 7	196.23	188,30	190,18
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HE LONGEST DURATION 5 CONTINUOUS MONTH *** 6-TH MONTH TO 24-TH YEAR 10-TH MONTH

Case No. 8-13

LOWEST POWER 118,9 HW

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	AGOS NO. 1 DAM	AVAILA.	348 25 0	102.30	73.94	46.17	40.01	41.31	63 08	84.08	. 2 T T T	145.40	21.203	229.17		1205.7610.	105.48
	AGO	WATURAL AV	151-49-	105.19	76.50	48.52	43.08	44.73	66 97	86.45	90.25	14 7 91	205 63	231.68		1298.40	108.20
	852	TOTAL	120-29	89 33	12.00	1.79	36.13	33.87	12.00	10.76	20.21	84 84	120 40	133.01		7.70.40	64.20
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KAL	REM DAMESTE	1.1.4.4.0.0	1.22	1.77	1.77		2.			51°7	1.22	1.77	2.2	7.7.1		22.12	77 -
	PICO		14.92	<b>•</b>	3.55	2.64	3.02	5.06	55,33	48.83	25. 15	37,57	50.53	58.77		312,00 2	20.00
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NIPPON KOEI

CUNIT C.M.S.

ESTIMATION OF DISCHARGE SERIES OF AGOS BISER SYSTEM EDR AGOS M. F. PROJECT

TABLE OF AVERAGE "ONTHIT DISCHARGE OF THE TARGET YEAR 19HZ

FSTIMATION OF DISCHARGE SERIFS OF AGOS RIVER SYSTEM FOR AGOS H.E. PROJECT

TARLE OF AVERAGE MONTHLY DISCHARGE OF THE LARGET YEAR 1989

NIPPON KQEL

CUNIT C.M. S.

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PTCOREM DAM KANAN NO. 2 DAM

Case No, 8-14

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	HILNON			TOTAL 31 MEAN 2	*** VOLUM P1C0 KANA				

ESTIMATION OF DISCHARGE SERIES OF AGOS AIMER SYSTEM FOR AGOS H.E. PROJECT

NTRPON KGET

TABLE OF AVERAGE MONTHEY DISCHARGE OF THE YARGET YEAR 2000 CUMIT C.M.S.)

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	S NO.1 DAM	109 97 0 64876	74.08 0.63914	48 91-0 52148	23.52.0.41393	20_26.0_40029	19.68 0.35819	77 81 0 20571	12-95 0 X5180	31 82 C 12208	62.57 0.37600	0.7.0	0	0	10000°C 07°27'	60.ZZ 0.46352
	NATURAL AV	151 49	105 19	26.50	48.52	43.08	44.73	66 97	86.45	20.25	147.91	205-03	231.68	0.000	0.0.0.1	108,20
	SUB	76 76	64.83	42.73	19.43	10.33	14.48	179	2.78	5 2	33.14	75-22	102.00			
	LOWER	31.24	23.10	12.27	10.80	9.34	8.76	10	2.78	5 1 2	21.93	31.13	34.40		· · · · · · · · · · · · · · · · · · ·	
N RIVES	AM Seill	63.00	41.73	25.46	8.03		5.72	0.69	0		11.21	40.81	68.20	1 0 4 4	÷	23.20
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	XANA Inelou	89.55	66.23	4.2.50	30.99	20.79	25.11	8.90	7.98	15.36	62.91	89.22	98.01			- 00-75
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	LOWER	15.73	9.25	6.1 <u>8</u>	4.09	3.93	5.20	19.64	2.6 81	25.07	25.50	34.70	39.90			C 1
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KAL-1	REN DAM-ST SUPPLY	22.98	22.98	22.98	21.77	19,97	19.46	22.37	22.64	22 98	22.98	22.98	22.98	1 1 2 4 6		07 22
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VOLUME USED FROM INITIAL STORAGE' IN C.M.S.MONTH

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NIPPON KOEL

ESTIMATION OF DISCHARGE SFRIES OF AGOS RIVER SYSTEM FOR AGOS H.E. PROJECT

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Case No. 8-14

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YOU WE USED FROM INTIAL STORAGE IN C.M. S. MONTH PACOREM DAM D. D. KANAN NO.2 DAM 0.

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NIPPON KOET TOKYO/JAPAN

PLAN A-2 KAHAN HWL 295

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** RESERVOIR OPERATION STUDY OF AGOS

*** RESULTS OF THE CASE HULE 175,000 INSTALLED CAPACITYE 152.0 STORED IN DISK FILE A1818-02 NO. 1

NIPPON KOET TOKYOLJAPAN 135.000 RATED HEAD IN HETER ..... 108.000 112.200 TARGET-OPERATION HOUR-A-DAY-8-22 DAM AN PLAN A-2 KANAN HUL 295 LOW WATER LEVEL TH METER DEPENDABLE CAPACITY IN MU ** RESERVOIR OPERALION STUDY OF AGOS

. VARIABLE MASS CURVE 175.000 152.000 166.992 HIGH WATER LEVELTN METER INSTALLED CAPACITY 14 MU RATED DISCHARGE IN CUS

38.750 0CT. 38.750 38.750 OF RULE CI 34.250 3.8.750 38.750 RULE CURVE IN WWH

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LENGTH OF INFLOW SERIES IN YEAR 76

*** SUMMARY OF RESERVOLR OREKALLON STUDY FOR FACH TARGET YEAR ***

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*** RESULTS OF THE CASE HWL: 155.000 INSTALLED CAPACITIE" 128.0 STORED IN DISK FILE AIBIB<u>ADZ MO</u>....

Case No. 8-17

0 256.13 00 256.13 -- DEC--74 430 49 81 364,60 15.56 (GRH) DEPENDABLE 18 30 651 184 .13 180 47 26.125 2 ł 3369.1 195.75 2 2988.0 186.25 1 91.000 26.125 45.4 4 .7. 31 26.125 26.125 26.125 LOW WATER LEVEL IN METER 521.000 RATED HEAD IN METER ...... Dedekudaale gaagetay in Mu 99.332 targee operation Nour .... O, HOUR 2854.2 5 ł 2 0.50.540.4 127.6 127.6 127.6 127.5 POHER (MU) EFFICI. 22 16 1 . E HEAD E ..... (M) 9 278 9 000 59.246 106.838 **X X X** 26.125 26.125 ł OPERATTON STUDY FOR EACH TARGET YEAR T, U. T. J 28,00 28,00 28,00 28 - 00 AAA DEPENDARLE DISCHARGE - LOWER OUIRUT AND ENERGY OUIPUL AA R. U. L. 384.15 15 384.15 15 354.61 15 342.53 15 349.81 15 26.125 26-13 23-19 16-33 (HCH) (Buh) 25 DEPENDABLE 128.000 128.000 128.000 128.000 39,86 20.125 - 96 - ) 128.00 2.2.4 × FE8. 26.125 166.895 26 SHMMARY OF RESERVOIR LEVETH OF INFLOW SERIES IN YEAR 220-12 230-12 25-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-12 23-1 RULE CURVE IN MWH 26.125 DEPENDABLE P(MW) E(GUH HIGH WATER LEVEL IN METER INSTALLED CAPACITY IN MUNICAS RATED DISCHARGE IN CAS 99, 62 100, 57 101, 60 EVAPO. ** * * * TNELOW 82 82 60 79 53 05 53 05 23 25 23 25 22 25 27 89 (CMS) 100.0 0(CMS) YEAR. 1989 

HIPPON KOEI TOKYO/JAPAN

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** RESERVOIR OPERATION STHDY OF AGOS

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Case No. 8-17

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Case No. 8-19 DEC. 40V. NIPPON KOEI TOXYO/JAPAN 19.938 56P. AUG. 19.938 2986. 2986. 29865 PRESENT. OPERATION 986 CURVE TWL = 175.000 ** (M US 0) 28.85 26.24 314,76 0.27 WORT-H 270.000 ABLE MASS 14.503 9.91681 0.82645 0.90909 00937 0.00852 P.W.F. 19.938 IN WETER PLAN A-3 31.75 31.75 POWER DEPENDABILITY IN X 95.0 VALUE IN US ** RESERVOIR OPERATION STUDY OF KANAN NO.1 DAM 0.681 9.63 5 63 6 19,938 Ca Sin 2.0.3 H N 19.938 KW VALUE IN US D 22.11 LENGTH OF INFLOW SERIES IN YEAR, 26 22 °11 500-000 22.11 a 36.000 *** Ξ PISCOUNT RATE 10.0 POWER 14N. 19.938 411.02 611.02 HIGH WATER LEVEL IN WETER Installed Capacity In Mu Rated discharge in CMS ANNUI RULE CURVE IN MWH O.HOUR / YEAR 138.0 138 0 138 0 DEPENDABLE R POWER 138.0 1950.0 SUMMARY YEAR 2012 1994 8 1. 37

NIPPON KOEI TOKYO/JAPAN * THL = 175,000 PLAN A-3 ** RESERVOIR OPERATION STUDY OF KANAN NO.1 DAM

106 200 RATED HEAD IN METER ...... TARGET OPERATION HOUR. A. DAY CURVE METER 270.000 IN HU 114.503 . VARIABLE MASS CAPACITY IN MU LEVEL IN METER RULE CURVE OU WATER EPEND'AB Ö è A 300.000 54,181 HIGH-WATER LEVEL IN METER INSTALLED CAPACITY IN M RATED DISCHARGE IN CMS

NDV. 0CT. SEP. AUG. 19.938 JULY 19,938 3 UNE 19.938 19,938 19.938 19.938 FEB. 19,938 RULE CURVE IN MWH

THE TARGET YEAR 1994 ***

FOR

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26 LENGTH OF INFLOW SERIES IN YEAR

4.68 0.43 7.95 ..... D. HOUF POWER .860 S CONTINUOUS MONTH ### 0.860 0.860 E HEAD EFFICI. 50 152 56 00 12 LONGEST DURATION. ŝ *** MONTHLY SUMMARY OF RESERVOIR OPERATION STUDY u H H ia o DEFICIT 024 2.55 2.55 45.80 0.79 SPILL (CMS) POVER 0,76 0,94 EVAPO. THERE *** INFLOW 98.61 ò NON TH JUNE JULY AUG. SEP. DEC. A N E B B B B YAY 100 Ч а 207

DEPENDABLE DISCHARGE . POWER OUTPUT AND ENERGY OUTPUT *** 

DURATION FROM 20-TH YEAR SHTH MONTH TO 20-TH YEAR 12-TH MONTH

**TIMES** 

OCCURED

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8 - DEPENDABLE ŝ 38,00 9 ( C M S ) 2 6 4 6 4 X DEPEND (HE) 138,00 ă 26,50 85.0 19.9 X DEPENDABL 138 00 0.04 DEPENDABLE 90.0 *(MU) E(GWH) 9(CMS) 88.00 19.94 26.19 1 138,00 Q(CM5) 25.84 95.0 X DEPENDABLE P(MW) E(GWH) 116.39 19.94 100.0 9(CHS) 25.67 YEAR 1996

3

116.4

LOWEST POWER

HIPPON KOEI TOKYO/JAPAN TWL = 165.000 ** 270.000 Q N METER PLAN A-3 W WAYER LEVE ** RESERVOIR OPERATION STUDY OF KANAN NO.1 DAM 300,000 HIGH WATER LEVEL IN MELER

Case No. 8-20

CURV RATED DISCHARGE IN CMS INSTALLED CAPACI

SEP. 21,313 AUG. 21,313 21.31 21.31 21.315 RULE CURVE IN MUH

21.315

21.313

LENGTH OF INFLOW SERIES IN YEAR 26

*** BENEFIT CALCULATION *** DISCOUNT RATE 10.0 POWER DEPENDABILITY IN X 95.0

PRESSNI OPERATION US 0) 31.05 28.23 £ 0.90909 P. W. F. 82645 KWH VALUE IN US ÷ 0.0425 DENEF z KW VALUE IN US Ś O, HOUR / YEAR DEPENDABLE 1950.0 YEAR 1995

2042 149.0 439.20 23.88 10.28 34.15 0.00937 2043 149.0 439.20 23.88 10.28 34.15 0.00852 Summary 149.0 439.20 23.88 10.28 34.15 9.91481

2953.2953.

0.32 0.29 338,64 NIPPON KOEI TOKYO/JAPAN TWL'= 165,000 ** PLAN A-3 ** RESERVOIR OPERATION STUDY OF KAWAN NO.T DAM

RATED HEAD Target oper MASS CURVI 20.000 LEVEL LOW-WATER u Q 300.000 HIGH WATER LEVEL IN METER Installed Capacity in Mu Rated Discharge in CMS

21.313 0C1. 21.313 SEP. 21.313 AUG. 21,313 21.313 377 21,313 21.31 21.313 21.313 21.313 RULE CURVE IN MUH

21.313

LENGTH OF INFLOW SERIES IN YEAR 20

*** MONTHLY SUMMARY OF RESERVOIR OPERATION STUDY FOR THE TARGET YEAR 1994 ***

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	ม ม ฉ	CHHDJ	21.31	21.31	21,31	21.31	21.31	21.31	21.31	21.31	21.31	21.31.	21.31	21.31	255.75
	0.HOUR	CH)	458.5	324.9	271.0	176.3	174.7	167.5	145.9	143 °7 :	144.5	180.1	316.4	. 449.3	2957.8
	POHER	CHH)	149.0	149.0	149.0	149.0	149.0	149.0	149.0	148.4	147.7	147.5	148.0	148.8	148.6
	EFFICI.		0,860	0,860	0,860	0.840	0.860	0.860	0.8.60.	0.860	0,860	0.860	0.860	0.860	0.860
	F.HEAD	(H)	131.233	131.587	131.552	131.264	130.620	129.599	127.651	124.661	121,885	123.347	127.951	130.329	128.457
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:	S'2	(HCH)										329.80			
•	90	(CHS)	134.77	134.37	134.40	134.70	135.38	136.49	138.62	141.38	143.91	142.0	137.48	135.02	137 45
	720	(CHS)	82.66	64.82	48.86	32.94	31.72	31.00	27.17	27.33	28.88	34.05	29.64	81.21	45 A4
	SPILL	(CMS)	1.59	•	0	•0	0	•	•0	•0 ·	0	0.63	0.75	5.85	0.75
	EVAPO.	(CWS)	56.0	1.21	1 40	1.00	1.30	0.03	0.72	0.54	0.66	0.65	0.60	0.16	0.94
	INFLOW	(CMS)	89.55	66.23	49.50	30.99	26.79	25.11	8.90	7.98	15 36	62 91	89.27	98.01	47.53
												00%	11		

THERE ARE POWER DEFICIT OF THE LONGEST DURATION & CONTINUOUS MONTH *** These deficits occured 5 times Longest duration from 20-th year 7-th Month to 20-th year 12-th Month

LOWEST POWER 123.7 MW

*** DEPENDABLE DISCHARGE , POWER CHITPUT AND ENERGY CUIPUT ***

21.3 5 DEPENDABLE CHM) o 149.00 CCMS) 26. 71 DEPENDA 149.00 0.06 OCCHS DEPENDABL (nw. 75AR

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WIPPON KOEI TOKYO/JAPAN 124_000 TWL # 155.000 ** 270,000 PLAN A-3 ** RESERVOIR OPERATION STUDY OF KANAN NO.1 DAM 500.000 IN METER HIGH WATER LEVEL

RATEO HEAO IN METER ...... Target - Operation Hour A Day ≪ INSTALLED CAPACITY IN M Rated Discharge in CMS

22.7' NOV. 22.719. 0CT. SEP. 22,719 AUG. 22,719 22.719. RULE CURVE IN MWH

LENGTH OF INFLOW SERIES IN YEAR 26

 *** BENEFIT CALCULATION ***
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 DISCOUNT RATE 10.0
 POWER DEPENDARTLITY IN 2 95.0

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0 E P	DEPENDABLE ANN	N N			• • • •	: ; ;	PRESENT OPERATION	DERATION
YEAR.	POWER	ິສ	POWER	ENERGY	101AL	P. W. F.	HINON	HOOH
	<pre>CMM)</pre>	Ŧ	CH OS DO	(q Sn W)	(M N N)	- 	(d Sn H)	(H)
1994	158.0	਼ੁ	25.32	10.92	36.24	0,90909	32,95	2959.
1995	158.0	466.85	25,32	10.92	36.24	0.82645	29.95	2959
•	- 	•	•		•	•	•	•
•	. <b>•</b>	•	•		•	•	•	•
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2042	158.0	466-85	12.	÷.,	36.24		0.34	2959
2043	158.0	466.85	25-32	10,92	36.24	0.00852	··· 0.31	2959.
SUMMARY	158.0	466.85	25.32	10.92	36.24	9.91481	359.35	2959.

8

NIPPON KOEL TOKYO/JAPAN TUL = 155.000 ** PLAN A-3 ** RESERVOIR OPERATION STUDY OF KANAN NO.1 DAM

NDV 22.719 RATED HEAD IN METER ..... 124.000 Target operation Hour a Day 4.64 22.719 SEP. 22.719 AUG. 22.719 22.719 **ULY** CURVE 270.000 VARIABLE MASS 22.71 LOW WATER LEVEL IN METER EPENDABLE CAP OF RULE ы Х С 300 000 1.186 58,000 EVEL IN METER RATED DISCHARGE IN CMS LEVEL HIGH WATER INSTALLED

DEC. 22.719

RULE CURVE IN MWH 22,719 22,719 22,719 22,719 22,719 22,719 22,719 22,719 22,719

LENGTH OF INFLOW SERIES IN YEAR 26

*** MONTHLY SUMMARY OF RESERVOIR OPERATION STUDY FOR THE TARGET TEAR 1994 ***

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THESE DEFICITS OCCURED 5 TIMES Longest burrtion from 20-TH YEAR 7-TH MONTH TO 20-TH YEAR 12-TH MONTH

42

LOWEST POWER 133.1 MW

*** DEPENDABLE DISCHARGE , POWER OUTPUT AND ENERGY OUTPUT ***

X DEPENDABLE 158,00 NNN V 80.0 DEPENDA 26.62 C DEPENDABLE 158.00 Q (CHS) 26.35 0.06 22.72 E CGWH) X DEPENDABLE CHE) Q(CMS) 25.99 95.0 DEPENDABL 2 133.09 YEAR 1994

DEC. NOV. 24.469 24.469 SEP. 24.409 AUG. 24.469 101. . TW HW 142.112 TARGE H. IN HA OF RULE CURVE DEPENDABLE L Y P.E. 00.000 14.8.7 JAN. HIGH WATER LEVEL IN MELER Installed Caracity In Mu Rated Discharge in CMS

24.409 24.469 24.469 24.469 24.409 24.469 RULE CURVE IN MWH

LENGTH OF INFLOW SERIES IN YEAR 20

DISCOUNT RATE 1000 - POWER DEPENDABLIIT IN 2 95.0

KWH VALUE IN US D 0.0234 0.0425 0.0682 0.400K / YEAR KW VALUE IN US D 255020

63.35

2985. PRESENT OPERATION 00.8 2985 £ 408TH 35.13 35.13 00 0.82645 0.00937 P. W. F. 38.64 38.64 U.S. D) t KM US D) 11.72 11.72 11.72 BENEFIT 26.92 90WER s ÷ 500.75 500.75 CHAD NNILAI 168.0 DEPENDABLE POWER 168.0 2042 YEAR 1995

2985.

383.10

9.91481

38.64

11.72

26.92

500.75

168.0

SUMMARY

NIPPON KOEL TOKYG/JAPAN 270.000 RATEO KEAD IN MEYER ..... 134.000 142.112 TARGET OPERATION HOUR A DAY 4.70 TWL = 145.000 ** ON WATER LEVEL IN METER PLAN A-3 A* RESERVOIR OPERATION STUDY OF KANAN NO.1 DAM P'ENDA:B IN METER HIGH WATER LEVEL

NOV. 24.469 0CT. 24.469 24.469 24.469 3115 24.469 WW 142.112 TARG 24.409 24.469 24.469 0 8416 24 4:69 24.469 RULE CURVE IN WWH 24-469 INSTALLED CAPACITY IN WW Rated Discharge in C4S

9EC. 24.469

*** MONTHLY SUMMARY OF RESERVOIR OPERATION STUDY FOR THE TARGET YEAR 1994 *** LENGTH OF INFLOW SERIES IN YEAR 26

62 9 0 0 HOUR 102 POWER 168.0 (ME) 0.860 E.HEAD EFFICI. 000 149.568 M C M S 96 (CMS) 33,32 024 (CMS) 32,59 SPTLL CMS) EVAPO. MONTH INFLOU

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LONEST POWER 143 8 MU

*** DEPENDABLE DISCHARGE . POWER OUTPUT AND ENERGY OUTPUT ***

THESE DEFICITS OCCURED S TIMES LONGET OF THESE DEFICITS OCCURED STIMES TO THE TO ZO-TH YEAR 12-TH MONTH TO ZO-TH YEAR 12-TH MONTH

C DEPENDABUE 80.0 X DEPENI Q(CMS) P(MU) 26.86 168.00 PCMU) ECGUH) 168.00 24.47 X DEPENDABLE 85.0 26.69 24.47 X DEPENDABLE P(HW) E O (CHS) 0.04 E (GUH) 2 X DEPENDABLE P (MM) 168.00 95.0 0(CMS) 20.10 X DEPENDABLE ("HW) d 25.94 143.83 a (cms) 00.00 Y EAR 1994

NIPPON KOEL TOKTO/JAPAN 96.600 4.33 METER 260.000 RATED HEAD IN METER ..... In Mu 103.241 Target Operation Hour a Day ... variable Mass Curve TwL = 175.000 ** LOW WATER LEVEL IN METER ** RESERVOIR OPERATION SYUDY OF KAWAW NO.1 DAM PLAN A-3

Case No. 8-23

NH NI X OF RULE CURVE F P E N D A B TYPE 290.000 127.000 155.992 HIGH WATER LEVEL IN METER INSTALLED CAPACITY IN ME RATED DISCHARGE IN CMS

17,063 17.063 17.063 17,063 JULY AUG. 17,063 17,063 17.063 17 003 .17,063 17.063 17,063 RULE CURVE IN MAN 17.043 IAN.

LENGTH OF INFLOW SERIES IN YEAR 20

DISCOUNT RATE 10.0 POWER DEPENDABILITY IN 2 95.0

O HOUR / YEAR KW VALUE IN US D KWH VALUE IN US D

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0.100 111.74 1950.0 111.74 1950.0 111.74 0.0	DEFERNDASLF POASLF Canada 127.0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	127.0
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127.0 380.66

SUMMARY

NIPPON KOEL TOKYO/JAPAN TWL = 175,000 ** PLAN A-3 ** RESERVOIR OPENATION STUDY OF KANAN NO.1 DAM

HEAD IN METER ..... 96.600 Operation Hour A Day 4.33 RATED HEAD Target oper 260.000 LE MASS EOW WATER L 290,000 HIGH WATER LEVEL IN METER INSTALLED CAPACITY IN 94 RATED DISCHARGE IN CMS

17.063 17.063 AUG. SEP. 17.063 17.063 17.063 17.063 UNE 17.063 1.7.063 17.003 RULE CURVE IN MUH.

DEC. 17.063

LENGTH OF INFLOW SERIES IN YEAR 26

*** MONTHLY SUMMARY OF RESERVOIR OPERATION STUDY FOR THE TARGET YEAR 1994 ***

				N 7 H A A A	OM SUOUN	4 CONTI	URATION	ONGESTO	OF THE L	DEFICIT	E POWER	*** THERE AR		·. ·
	204° U	3000.0	126.8	0.860		175.000	¢18		135,88	45.92	0.86	0.75	47.55	MEAN
1.46 20.24	00	465.55	127.0	0.860	112,685	175.000	288.475	335.93.	133 \$ 69	82.84	÷.35	0.01		DEC
Į.	17.00	353.0	126.2	0.850		175.000	.023		135,89	65.59	1.23	0.53		NON
	00-21	1.85	125.9	0.860		175,0000	299		141,70	34.70	0.80	0.51		0.1
	00-21	135.2	126.2	0.860		175.000	\$88.		144.67	27.18	0	. 0.50	15.36	SEP.
	<u></u>	5* 5 5	126.9	0.860		175,000	. 666		141,19	25.51	.0	0.42		AUG.
~	12.06	138.2	127.0	0.860		175,000	946		136.89	25.40	c	0.57	8.90	101.
	17-06	163.5	127.0	0.860		175,000	47.9.		134.31	30.40	C	0.74	25,11	JUNE
	17,000	173.2	127.0	0.860		175.000	. 931		133.12	30.93	с	1.04	26.79	MAY
	17.06	178.1	1.27.0	0.860		175.000	.588		132,33	32.70	0	62	30.99	A D R
	17.06	273.5	127.0	0.860		175,000	831.		152.04	49.50			49.50	
	17-06	330.7	127.0	0,860		175.000	810		132.07	54.92		- 6 - 6	22.99	3
	17,06	469.4	127.0	0,860		175.000	289.484	346.00	132.47	83.31				N A L
	CHH90	(H)	CHMD,		(¥)	CH)	(H)	CHCH3	(CMS)	C WSD	11410 11410			
	P.E.	0.HOUR	POWER	EFFICI.	E.HEAD	T.W.L.	R . W . 1 .	\$2	06	024	1102		1.00	HERCO

LOWEST POWER 105.9 MM TH YEAR B-TH MONTH TO 20-TH YEAR TI-TH MONTH DEPENDABLE DISCHARGE . POWER OUTPUT AND ENERGY OUTPUT *** THESE DEFICITS OCCUPED 5 Longest Duration From 20-

(X 10) 17.06 DEPENDABLE 127.00 DEPENDABI Gr E 127.00 90.0 Q (CHS) 24.32 E(644) 7:06 X DEPENDABLE 4.00 127.00 95.0 ĕ F.(GWH) X DEPENDABLE P (NU) 105,88 23.82 1.00.00 0.00MS) YEAR 1994

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NIPPON KNEI TOKYO/JAPAN 106.200 HFAD IN METER ..... RATED TWL = 165,000 ## 260.000 IN METER PLAN A-3 OU WATER LEVEL OF KANAN NO.1 DAM 290,000 ** RESERVOIR OPERATION SIMPY METFR

SEP. 18.625 18.625 CURV 3 VARIABLE ٦. N z TYPE OF RULE CURVE PENDABLE 2 38.000 54.18 NAU 7 H 2 HIGH WATER LEVEL IN MET Instated Capacity In M Rated Discharge In CMS

LENGTH OF INFLOW SERIES IN YEAR 20

DISCOUNT RATE TO.0 POWER DEPENDABILITIN X 95.0

0.HOUP / YEAR KH VALUE IN US D KHH VALUE IN US D 2550:0 1950:0 63.35 0.0682

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PRESENT OPERATION 40814 HOUR (M US D) (H) 28,90 2999. 26,27 2999.	2999 2999
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SUMMARY

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18.625

NIPPON KOEL TOXYO/JAPAN PLAN A-3 THL = 165,000 ** OW WATER LEVEL IN METER ** RESERVOIR OPERATION STUDY OF KANAN NO.1 DAM

٥Ľ CURVE LABLE MASS VAR. A SN N 290,000. **18, 0**0 LEVEL IN METER BE N INSTALLED CAPACITY IN " Rated Discharge In CMS HIGH.WATER

DEC. 18.625 0CT. 5EP. 18.625 AUG. 18.625 18.625 18.625 . 18, 625 18.625 18 675 18.625 RULE CURVE IN MWH 18.625

LENGTH OF TNFLOW SERIES IN YEAR 26

*** MONTHLY SUMMARY OF RESERVOIR OPERATION STUDY FOR THE TARGET YEAR 1994 ***

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	165.000	165.000	165,000	165.000	165.000	165.000	165.000	165.000			165.000	4 CONTRI
* * * * *	289 486	289.809	289,826	288.904	287.931	285,889	282°282	279.508	204 207	288 2.77	286.586	URATION
1202	345.99	346.79	340.30	124.29	308.50	262.56	214.38	182.49	0	00.012	297.48	ONGEST D
50	132.04	132.28	132, 26	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	134.40	130.80	140.75	143.94	141.20	100.00	135,83	0 7 M F
924	84 45	64.93	10 10 10 10 10	0 0 0 M	30.46	25.48	25,55	27.16	34.50		45.93	000777
SPILL	CC 450	- 0	0			0	0	0	0.78		0.85	00000
EVAPO	(CMS)	6.0	С- -	62 L	44.0	0.57	0.42	0.50	0.51		0.01	C. ACTOR
INFLOW	(CHS)	66.23	49.50	30.99			6 1	15.36	65.91	22.68	98.01 47.53	•
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LOWEST POWER 116.8 MM LONGEST DURATION FROM 20-TH VEAR 8-TH MONTH TO 20-TH YEAR 11-TH MONTH THE HESE DEFICITS OCCURI

*** DEPENDABLE DISCHARGE .. POWER OUTPUT AND ENERGY OUTPUT ***

48

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138.00 18.63 X DEPENDABLE (CHS) 24.95 138.00 C DEPENDABLE 24.44 138.00 90.0 Q(CMS) (HPS)3-18.63 X DEPENDABLE CHH) d 24.14. 138.00 95.0 CSM3)0 (HM) E (CMH) DEPENDARLE 136.80 00.00 FAR

NIPPON KOEL TOKYO/JAPAN TwL = 155.000 ** PLAN A-3 ** RESERVOIR OPERATION STUDY OF KANAN NO.1 DAM

19.625 VARIABLE MASS CURVE LOW WATER Dependable 10 3dX. 290,000 HIGH WATER LEVEL IN METER RATED DISCHARGE IN CHS INSTALLED CAPAC

19.625 SEP. 19.625 19.625 19.625 19.625 19.625 9.625 19.625 RULE CURVE IN WWH 19.625

19.625

LENGTH OF INFLOW SERIES IN YEAR 76

DISCOUNT RENEFIT CALCULATION ***

N US 0.HOUR / YEAR KW VALUE IN US. D. KHH VALUE ( 2550.0 1911 - 110.25 1950.0 PRESENT OPERATION WORTH HOUR 0 32 (M US 0) 30.64 27.86 P. W. F. 0 90909 0 00937 33.71 M US D) (M US D 10.20 (M US D) 23.51 23.51 23.51 (GWH) 435.81 435.81 435.81 DEPENDABLE Power 146 140 140. 3 YEAR 2042 1994

2970 2970

334.22

9.91481

33.71

10.20

23.51

435.81

7.6.21

SUMMARY

(H) 2970

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NEPPON KOEI TOKYO/JAPAN PLAN A-3 THL = 155.000 ## A RESERVOIR OPERATION STUDY OF KANAN KO. 7 DAM

114.200 METER 260.000 RATED HEAD IN METER ...... In Mu 120.340 Target operation Hour A Day . Variable Mass Curve MW NI AJ LOW WATER LEVEL IN METER OF. RULE CURVE DEPENDABLE CAPACI TYPE 52,731 290.000 47,000 HIGH WATER LEVEL IN METER INSTALLED CAPACITY IN MW Rated Discharge in CMS

19,625 19.625 SEP. AUG. 19.625 JUNE 19.625 19.625 Y A'M 19.625 19.025 T V T 19.625 RULE CURVE IN MWH 19.625 JAN

DFC. 19.625

LENGTH OF INFLOW SERIES IN YEAR 26

8 8 0 235.5 NOH. 29.69 .0 N 0.800 E.HEAD EFFICT. 80.00 037 OPERATION STUDY FOR THE TARGET YEAR 1994 *** R.W.L. T.W.L. 25 CNS) 5.97 0.24 *** MONTHLY SUMMARY DF RESERVOIR 1 I S ... J 8 0 0 0 75 U A P U 98.61 47.53 INFLOW HINON JUNE AUG. 2000 2010 2010 MENN JULY N N Ϋ́́

LOWEST POWER 122.4 MW POWER DEFICIT OF THE LONGEST OURATION 4 CONTINUOUS MONTH *** THESE DEFICITS OCCUSED [16] TIMES : TO CONTRACT CONTRACTOR ARE HERE

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*** DEPENDABLE DISCHARGE . POWER DISTPUT AND ENERGY DUTPUT ***

CCHS) PCHU) ECGHN X DEPENDABLE Q(CHS) 80.0 (GuH) 19.63 0EPENDABLE P(MW) E(GWH 47.00 19.6 P(HH) 85.0 4(CHS) 24.78 90,0 X 05PENDABLE QCCMS) PCHW) ECGHH) 24,45 147.00 19,63 95.0 X DEPENDABLE (C45) P(M4) E(G4H) 24.15 146.72 19.63 95.0 0(C4S) X DEPENDARLE P(MU) E(GWH) 122_42 19.62 100.0 e (CMS) 23.98 Y F A R NIPPON KOEI TOKYO/JAPAN RATED HEAD IN METER ...... 122,000 Target operation Hour a Day 4.30 Curve PLAN A-3 TWL = 745_000 ** 260.000 IN METER ** RESERVOIR OPERATION STUDY OF KANAN NO.1 DAM OU WATER

Case No. 8-26

NOV. DEC. 20.938 20.938 20.938 5EP 20,938 AUG. 20.938 JULY 20.938 E HASS . 20,938 CURVE .. VARIAB 20,938 MW NITE 20,938 YPE OF RULE EPENDAB 20 938 Z0.938 Z0.938 290,000 152.692 HIGH MATER LEVEL IN WETER STATES IN STALLED CAPACITY IN MU Installed Capacity in Mu Rated Discharge IN CMS RULE CURVE IN MWH

LENGTH OF INFLOW SERIES IN YEAR 26

*** SENEFIT CALCULATION *** DISCOUNT RATE 10.0 POWER DEPENDABILITY IN 2 95.0

O,HOUR V YEAR XH VALUE IN US D KWH VALUE IN US D 2550,000 160,25 1950.0 **OPERATION** 0.34 29.72 35 0.00937 60.606 0 0 82645 P 4 F 35.97 8 ŝ US D) CM 10.85 10.85 BENEFI' 25 11 ŝ ź 463.78 463,78 CHND: 4.63.7 ANNUAL NERGY DEPENDABLE Power . 20-20 F 2042 YEAR 1995

2958 2958

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356.59

9.91481

35.97

10.85

25.11

463.78

156.7

SUMMARY

NIPPON KOEL TOKYO/JAPAN = 145.000 ** 111 LOW WATER LEVEL IN METER DEPENDABLE CAPACITY IN MA PLAN A-3 OF KANAN NO. 1 DAM ** RESERVOIR OPERATION STUDY HIGH WATER LEVEL IN METER

ATER LEVEL IN METER 260,000 RATED HEAD IN METER ..... 122,000 Udable capacity in Mu 130,653 target operation Hour A Day 4,30 Of Rule Curye .. Variable Mass curve 0CT. 20,938 SEP. 20.938 AUG. 20,958 JULY 20.938 JUNE 20.938 V A W MAR TYPE 290.000 157.000 152.692 JAN. ANSTALLED CAPACITY IN 4W Rated Ofscharge IN CMS

20,938

NOV. 20.938

20.938 20.938 20.938 2n.938 20.938 RULE CURVE IN MWH

26 LENGTH OF INFLOW SERIES IN YEAR

51 03 27.57 21.0 16.03 P.E. 0.9 6.0 0 "HOUR 2958 . 69 E.HEAD EFFICI. OF RESERVOIR OPERATION STUDY FOR THE TARGET YEAR 1994 *** (CHS) 30 1.08 45.98 024 CHS) SPILL (CMS) 0.61 EVAPO *** MONTHLY SUMMARY INFLOW CMS 40 N T H JUNE DEC AU6. NOV. IAN. ö d 1057 SEP. ΥAY 4 A P

LOWEST POWER 132.5 4 CONTINUOUS MONTH + + + 8-TH MONTH TO 20-TH YEAR 11-TH MONTH OF THE LONGEST DURATION THESE DEFICITS OCCRED- 6 TTHES ... Longest ouration From 20-th Year. POWER DEFICIT THERE ARE POWER THESE DEFICITS

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DEPENDABLE DISCHARGE . POWER OUTPUT AND FNFRGY OUTPUT ***

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E (GUH) 20,94 2 DEPENDABLE P(MW) E(GWH 157,00 20,9 80.0 0(CMS) 25.05 E (GHH). 20.94 DEPENDABLE 157.00 ( MW) d 85.0 0(CMS) 24.86 X DEPENDABLE Р (МЦ) E (GUH) 157.00 20.94 90.0 90.0 24.52 Z DEPENDABLE P(MH) E(GMH) 156-71 20-94 95.0 0(CHS) 24.23 X DEPENDABLE P(MU) E(GUH) 137_45 20:94 100.0 0(CMS) 24.06 YEAR 1994

NIPPON KOEI TOKYO/JAPAN 80.600 TWL = 175,000 ** 250.000 ** RESERVOIR OPERATION STUDY OF KANAN NO.1 DAN PLAN A-3 280.000 N. KETER INSTALLED CAPACITY IN M Rated discharge in CMS HIGH WATER LEVEL

Case No, 8-27

73.500 13.500 13.500 13.500 13.500 13.500 13.500 13.500 RULE CURVE IN MWH

LENGTH OF INFLOW SERIES IN YEAR 26

PISCOUNT RATE TO COLLATION ***

KWH VALUE IN US D KW VALUE IN US. D 0.HOUR / YEAR 2550.0

P.S.N. F. 0.068 ENCREY DEPENDASLE Power YE . P.

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NIPPON KOEI TOKYO/JAPAN TUL = 175,000 ** PLAN A-3 ** RESERVOIR OPERATION STUDY OF KANAR NO.1 DAM

HEAD IN METER ..... 86.600 PPERATION HOUR A DAY 3.79 RATED SCURV 250.000 IABLE 280,000 HIGH WATER LEVEL IN METER INSTALLED CAPACITY IN MU

113.500 13,500 13.500 13.500 AUG. 13.500 13,500 13, 500 13.500 13,50 13.500 13.500 RATED DISCHARGE IN CHS RULE CURVE IN MUN

LENGTH OF INFLOW SERIES IN YEAR 26

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