

**ANNEX-D3**

**LOW GRAND FALLS DAM**



Table D-15 LGF Ave. Reservoir Water Level Simulation Results (Power Oriented, 1995 Abstraction)  
(Unit: EL.m)

	Year												Daily				
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.
1957	511.63	510.85	510.02	510.13	511.47	511.99	511.96	511.68	511.08	510.47	510.99	512.00	510.02	511.19	512.00	509.56	512.00
1958	511.63	510.85	510.03	509.74	511.50	512.00	511.99	511.70	511.08	510.47	510.91	511.99	509.74	511.16	512.00	509.56	512.00
1959	511.63	510.85	510.03	509.52	510.72	511.78	511.93	511.69	511.08	510.47	510.52	511.93	509.52	511.01	511.93	509.44	512.00
1960	511.63	510.85	510.03	510.18	511.31	511.59	511.43	511.18	510.83	510.41	510.72	511.72	510.03	510.99	511.72	509.56	512.00
1961	511.63	510.85	510.02	510.11	511.40	512.00	511.93	511.65	511.08	510.09	512.00	512.00	510.02	511.31	512.00	509.50	512.00
1962	511.99	511.02	510.02	510.19	511.77	511.99	511.99	511.70	511.08	510.47	510.96	511.64	510.02	511.24	511.99	509.56	512.00
1963	511.61	510.85	510.02	510.28	512.00	512.00	511.99	511.70	511.08	510.47	511.04	512.00	510.02	511.25	512.00	509.56	512.00
1964	511.76	510.85	510.03	510.60	512.00	511.99	512.00	511.70	511.08	510.47	511.04	511.98	510.02	511.29	512.00	509.56	512.00
1965	511.63	510.85	510.02	510.13	511.40	512.00	512.00	511.70	511.08	510.47	511.04	512.00	510.03	511.35	512.00	509.55	512.00
1966	511.63	510.85	510.03	510.62	511.98	511.99	511.99	511.70	511.08	510.48	511.88	511.99	510.03	511.29	512.00	509.58	512.00
1967	511.63	510.86	510.02	509.97	511.79	512.00	511.99	511.70	511.08	510.55	511.86	512.00	509.97	511.32	512.00	509.52	512.00
1968	511.63	510.86	510.23	510.70	512.00	512.00	511.99	511.70	511.08	510.47	511.14	512.00	510.23	511.32	512.00	509.54	512.00
1969	511.80	510.87	510.05	510.18	511.40	512.00	512.00	511.70	511.08	510.47	510.91	512.00	510.05	511.20	512.00	509.54	512.00
1970	511.63	510.85	510.03	510.34	511.92	511.99	511.99	511.70	511.08	510.47	510.86	511.41	510.03	511.19	511.99	509.56	512.00
1971	511.47	510.85	510.02	509.99	511.40	512.00	512.00	511.70	511.08	510.47	510.51	511.28	509.99	511.06	512.00	509.50	512.00
1972	511.52	510.86	510.02	509.56	510.22	511.22	511.51	511.55	511.08	510.47	510.82	511.58	509.56	510.92	512.00	509.52	512.00
1973	511.63	510.85	510.02	510.18	511.34	511.98	512.00	511.70	511.08	510.47	510.96	511.08	511.58	511.14	512.00	509.57	512.00
1974	511.54	510.85	510.03	510.18	511.36	511.96	512.00	511.70	511.08	510.47	510.96	511.88	510.03	511.17	512.00	509.60	512.00
1975	511.63	510.85	510.03	510.02	511.38	512.00	512.00	511.70	511.08	510.47	510.52	511.65	510.02	511.11	512.00	509.57	512.00
1976	511.59	510.86	510.02	509.62	510.77	511.84	512.00	511.70	511.08	510.46	510.51	511.46	509.62	510.99	512.00	509.45	512.00
1977	511.63	510.86	510.03	510.20	511.71	511.99	511.99	511.70	511.08	510.47	511.20	512.00	510.03	511.24	512.00	509.49	512.00
1978	511.63	510.86	510.44	511.78	512.00	511.99	511.99	511.70	511.08	510.50	511.11	511.99	510.44	511.42	512.00	510.20	512.00
1979	511.64	511.47	510.08	510.41	512.00	511.99	511.99	511.70	511.08	510.47	511.26	511.99	510.08	511.34	512.00	509.51	512.00
1980	511.63	510.86	510.02	509.96	511.12	511.98	512.00	511.70	511.08	510.47	511.05	511.99	509.96	511.15	512.00	509.56	512.00
1981	511.63	510.85	510.05	510.96	512.00	512.00	512.00	511.70	511.08	510.47	511.01	511.97	510.05	511.31	512.00	509.55	512.00
1982	511.63	510.85	510.03	510.18	511.44	512.00	512.00	511.70	511.08	510.86	511.98	512.00	510.03	511.31	512.00	509.56	512.00
1983	511.63	510.85	510.02	510.25	511.91	511.99	512.00	511.70	511.08	510.47	510.87	511.89	510.02	511.22	512.00	509.57	512.00
1984	511.63	510.85	510.03	509.61	510.05	509.99	509.63	509.30	508.78	509.10	511.03	511.99	508.78	510.17	512.00	508.42	512.00
1985	511.63	510.85	510.03	510.19	511.52	511.99	512.00	511.70	511.08	510.47	510.85	511.96	510.03	511.19	512.00	509.47	512.00
1986	511.63	510.86	510.02	510.03	511.48	512.00	512.00	511.70	511.08	510.47	511.03	511.99	510.01	511.19	512.00	509.55	512.00
1987	511.63	510.86	510.02	510.03	511.14	511.96	512.00	511.70	511.08	510.47	510.90	511.95	510.02	511.15	512.00	509.57	512.00
1988	511.63	510.85	510.03	510.48	512.00	511.99	512.00	511.70	511.08	510.48	511.17	511.99	510.02	511.28	512.00	509.49	512.00
1989	511.65	510.85	510.02	510.20	511.40	511.99	512.00	511.70	511.08	510.50	511.66	512.00	510.02	511.26	512.00	509.58	512.00
1990	511.95	510.92	510.48	511.92	512.00	512.00	512.00	511.70	511.08	510.51	511.12	511.99	510.48	511.47	512.00	510.11	512.00
Min.	511.47	510.85	510.02	509.52	510.05	509.99	509.68	509.30	508.78	509.10	510.51	511.28	508.78	510.17	511.72	508.42	512.00
Avg.	511.65	510.88	510.06	510.25	511.50	511.89	511.89	511.61	511.01	510.46	511.07	511.89	509.97	511.18	511.99	509.97	512.00
Max.	511.99	511.47	510.48	511.92	512.00	512.00	512.00	511.70	511.09	511.09	512.00	512.00	510.48	511.47	512.00	508.42	512.00
Daily Min.	511.24	510.48	509.52	509.44	509.57	504.83	509.51	509.10	508.47	508.42	510.08	510.97	512.00	512.00	512.00	508.42	512.00
Daily Max.	512.00	511.86	511.11	512.00	512.00	512.00	512.00	512.00	511.38	512.00	512.00	512.00	512.00	512.00	512.00	512.00	512.00

Table D-16 IGF Outflow Simulation Results (Power Oriented, 1995 Abstraction)

(Unit: m<sup>3</sup>/s)

	Monthly Data												Daily Data				
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.
1957	148.71	136.87	129.32	93.54	255.81	201.10	78.23	114.87	122.23	83.28	160.89	78.23	137.11	255.81	75.00	472.02	
1958	127.87	107.99	132.53	78.56	280.49	273.37	143.38	136.00	123.68	123.92	81.74	148.38	78.56	146.99	280.49	75.00	556.68
1959	122.03	100.29	130.16	77.65	75.00	75.00	76.60	91.97	104.50	123.33	76.66	114.62	75.00	97.32	130.16	75.00	178.92
1960	105.94	93.20	104.73	108.60	79.18	75.00	75.00	75.00	75.00	95.13	81.01	75.00	75.00	86.90	108.60	75.00	2237.21
1961	96.74	91.05	85.95	86.82	103.82	82.79	75.00	78.83	107.01	290.78	1610.21	781.14	75.00	290.85	1610.21	75.00	745.47
1962	336.33	196.87	152.30	130.40	418.89	175.99	99.28	134.66	130.56	142.30	86.89	75.00	75.00	173.29	418.89	75.00	1119.82
1963	100.04	124.85	135.24	138.97	670.69	294.94	125.97	134.18	129.55	129.63	108.13	194.57	100.04	190.57	670.69	75.00	1067.24
1964	237.13	157.93	148.34	328.54	480.86	172.62	96.85	136.78	130.62	134.63	88.47	158.23	88.47	189.25	480.86	75.00	226.95
1965	171.01	152.08	140.10	88.94	91.70	84.50	76.47	89.14	85.09	128.78	118.31	118.31	76.47	112.91	171.01	75.00	655.21
1966	129.28	146.67	152.94	200.37	351.78	182.43	96.64	136.54	131.38	138.02	316.10	113.14	96.64	172.11	351.78	75.00	784.65
1967	116.37	118.99	134.76	81.54	501.24	323.80	144.27	151.69	146.07	183.65	357.14	318.04	81.54	214.80	501.24	75.00	1466.90
1968	180.55	163.62	225.98	362.92	544.84	307.99	178.19	173.07	146.85	158.10	268.33	709.22	146.85	284.97	709.22	75.00	314.25
1969	239.10	197.91	203.04	147.61	163.75	106.86	91.63	120.66	141.12	84.73	118.74	84.73	84.73	145.89	239.10	75.00	398.65
1970	127.91	117.69	113.96	195.24	239.30	187.49	97.61	138.82	133.07	136.87	87.96	75.00	75.00	135.91	239.30	75.00	177.82
1971	81.20	91.49	89.22	85.71	102.25	96.01	90.26	108.05	130.28	132.43	77.35	75.00	75.00	96.61	132.43	75.00	298.11
1972	87.09	95.73	91.26	75.88	75.00	75.00	75.00	77.78	80.69	122.27	161.37	162.76	75.00	98.32	162.76	75.00	227.00
1973	168.13	147.24	135.93	105.08	93.56	91.49	78.93	99.53	102.67	129.68	77.83	75.00	78.17	108.52	168.13	75.00	227.00
1974	91.80	105.62	107.07	126.45	88.13	78.17	104.51	143.22	128.82	132.69	108.45	87.26	78.17	108.52	143.22	75.00	227.00
1975	106.87	106.71	110.32	110.23	106.96	95.28	79.53	99.70	90.40	99.93	77.51	75.00	75.00	96.54	110.32	75.00	227.00
1976	85.53	89.79	93.88	75.50	75.00	81.10	79.07	94.94	88.04	94.14	75.52	75.00	75.00	83.96	94.94	75.00	164.24
1977	103.88	100.51	111.17	170.30	320.54	235.03	109.33	139.69	132.40	131.28	222.18	284.32	100.51	171.72	320.54	75.00	543.98
1978	195.55	161.06	211.78	632.72	827.22	170.13	108.80	146.20	137.38	157.14	165.21	197.60	108.80	234.23	632.72	75.00	1142.02
1979	186.69	227.00	201.76	207.31	533.38	385.85	154.40	144.40	135.23	139.84	171.37	113.39	113.39	216.72	533.38	75.00	925.22
1980	127.30	129.06	138.34	87.40	75.00	83.05	80.79	102.21	126.27	131.76	169.34	137.04	75.00	115.63	169.34	75.00	227.00
1981	138.91	143.99	166.68	293.41	525.54	227.45	109.09	143.14	136.19	143.53	93.21	93.93	93.21	184.59	525.54	75.00	689.47
1982	116.90	116.13	129.57	116.89	248.14	269.15	109.92	155.55	134.75	179.95	273.14	277.53	109.92	177.38	277.53	75.00	585.92
1983	185.71	156.80	141.89	128.69	295.94	167.33	96.92	136.73	132.53	137.11	102.54	88.09	88.09	147.52	295.94	75.00	381.20
1984	120.09	116.91	109.73	78.59	75.00	75.00	75.00	75.00	75.00	88.29	117.19	146.38	75.00	96.02	146.38	75.00	253.31
1985	131.89	121.75	118.82	155.48	255.18	190.10	98.39	138.22	134.06	138.82	82.20	101.00	82.20	138.83	255.18	75.00	478.50
1986	105.18	109.48	108.49	88.38	233.17	235.57	104.40	134.08	130.94	135.06	114.32	201.11	88.38	141.68	235.57	75.00	407.26
1987	147.93	135.99	139.22	93.56	75.00	106.12	88.11	115.18	126.53	125.37	76.95	89.87	75.00	109.99	147.93	75.00	227.00
1988	104.18	108.63	136.13	231.67	635.83	184.03	95.22	138.12	132.35	158.78	198.45	212.28	95.22	194.64	635.83	75.00	1043.96
1989	201.83	156.43	154.61	156.55	186.39	157.54	94.31	133.37	134.52	181.01	315.67	322.86	94.31	182.93	322.86	75.00	630.55
1990	298.94	179.70	205.43	566.92	458.96	209.74	115.24	147.18	133.96	165.26	202.42	248.23	115.24	244.33	566.92	91.08	744.07
Min.	81.20	89.79	85.95	75.50	75.00	75.00	75.00	75.00	75.00	88.29	75.52	75.00	75.00	83.96	94.94	75.00	
Avg.	147.78	132.53	137.96	167.84	271.87	168.03	100.07	123.10	121.25	140.38	186.52	183.06	87.47	156.70	354.26	75.00	
Max.	336.33	227.00	225.98	632.72	670.69	385.85	178.19	173.07	146.85	290.78	1610.21	781.14	146.85	290.85	1610.21	75.00	2237.21
Daily Min.	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	
Daily Max.	572.03	227.00	227.00	1142.02	1119.82	657.35	227.64	223.82	162.74	819.92	2237.21	1466.90					

Table D-17 LGF Power Outflow Simulation Results (Power Oriented, 1995 Abstraction)

(Unit:m3/s)

	Monthly												Daily			
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Max.		
1957	147.98	136.87	129.32	93.54	200.34	178.11	78.04	114.87	120.49	122.23	83.28	159.75	78.04	200.34	75.00	227.00
1958	127.87	107.99	132.53	78.56	191.48	212.59	138.76	136.00	123.68	123.92	81.74	146.79	78.56	212.59	75.00	227.00
1959	122.03	100.29	130.16	77.65	75.00	75.00	76.60	104.50	123.33	123.33	76.66	114.21	75.00	130.16	75.00	178.92
1960	105.94	93.20	104.73	108.60	79.18	75.00	75.00	75.00	75.00	95.13	81.01	75.00	75.00	108.60	75.00	227.00
1961	96.74	91.05	85.95	86.82	103.82	82.79	75.00	78.83	107.01	175.18	227.00	227.00	75.00	227.00	75.00	227.00
1962	227.00	196.87	152.30	130.40	227.00	169.63	96.97	133.99	130.56	142.30	86.89	189.11	100.04	227.00	75.00	227.00
1963	100.04	124.85	135.24	137.59	227.00	217.82	124.22	133.67	129.55	129.63	108.13	159.41	88.47	227.00	75.00	227.00
1964	216.85	157.93	148.34	181.59	227.00	167.97	94.52	136.43	130.62	134.63	88.47	157.41	88.47	153.48	75.00	227.00
1965	171.01	152.08	140.10	88.94	91.70	84.50	76.44	89.14	85.09	128.78	128.75	118.31	76.44	112.90	75.00	226.95
1966	129.28	146.67	152.94	199.10	220.76	147.59	94.93	136.54	131.38	138.02	224.23	111.95	94.93	152.78	75.00	227.00
1967	116.37	118.99	134.76	81.54	213.39	222.09	139.07	151.06	146.07	183.65	227.00	218.39	81.54	162.70	75.00	227.00
1968	180.55	163.62	225.98	223.38	227.00	225.82	174.81	173.07	146.85	158.10	177.95	227.00	146.85	192.01	102.24	227.00
1969	227.00	197.91	203.04	147.61	163.75	106.08	90.27	120.66	135.52	141.12	84.73	116.70	84.73	144.53	75.00	227.00
1970	127.91	117.69	113.96	195.24	220.76	161.93	96.24	138.52	133.07	136.87	87.96	75.00	75.00	133.76	75.00	227.00
1971	81.20	91.49	89.22	85.71	102.25	94.68	88.98	108.05	130.28	132.43	77.35	75.00	75.00	96.39	75.00	177.82
1972	87.09	95.73	91.26	75.88	75.00	75.00	75.00	77.78	80.69	122.27	161.37	151.37	75.00	97.37	75.00	227.00
1973	167.01	147.24	135.93	105.08	93.56	90.74	78.71	99.53	102.67	129.68	77.83	75.00	75.00	108.58	75.00	227.00
1974	91.80	105.62	107.07	126.45	88.13	78.01	101.45	143.20	128.82	132.69	108.45	85.71	78.01	108.12	75.00	227.00
1975	106.19	106.71	110.32	110.23	106.96	93.67	79.05	99.70	90.40	99.93	77.51	75.00	75.00	110.32	75.00	227.00
1976	85.53	89.79	93.88	75.50	75.00	79.37	78.74	94.94	88.04	94.14	75.52	75.00	75.00	83.79	75.00	164.24
1977	103.88	100.51	111.17	170.30	225.14	205.79	105.89	139.04	132.40	131.28	199.98	226.14	100.51	154.29	75.00	227.00
1978	195.55	161.06	211.78	227.00	227.00	165.82	104.47	145.66	137.38	157.14	165.21	186.05	104.47	173.68	75.00	227.00
1979	186.69	227.00	201.76	186.12	227.00	227.00	150.80	143.90	135.23	139.84	171.37	111.98	111.98	175.73	75.00	227.00
1980	127.19	129.06	138.34	87.40	75.00	82.77	80.11	102.20	126.27	131.76	169.34	135.90	75.00	115.44	75.00	227.00
1981	138.91	143.99	166.68	217.49	227.00	195.45	108.17	143.14	136.19	143.53	93.21	92.42	92.42	150.51	75.00	227.00
1982	116.90	116.13	129.57	116.89	195.07	209.06	108.59	155.79	134.75	179.95	227.00	218.44	108.59	159.01	75.00	227.00
1983	185.71	156.80	141.89	128.69	227.00	163.48	95.59	136.73	132.53	137.11	102.54	86.87	86.87	141.24	75.00	227.00
1984	119.98	116.91	109.73	78.59	75.00	75.00	75.00	75.00	75.00	88.29	117.19	141.19	75.00	95.57	75.00	227.00
1985	131.89	121.75	118.82	155.48	201.67	176.29	96.73	138.22	134.06	138.82	82.20	99.50	82.20	132.95	75.00	227.00
1986	105.18	109.48	108.49	88.38	212.66	201.27	102.61	134.07	130.94	135.08	113.65	189.23	88.38	135.92	75.00	227.00
1987	147.93	135.99	139.22	93.56	75.00	104.47	87.44	115.18	126.53	125.37	76.95	87.41	75.00	109.59	75.00	227.00
1988	104.18	108.63	136.13	187.57	227.00	174.56	93.75	137.48	132.35	158.78	187.55	195.61	93.75	153.63	75.00	227.00
1989	201.83	156.43	154.61	156.55	186.39	152.47	92.99	133.37	134.52	181.01	227.00	227.00	92.99	167.02	75.00	227.00
1990	227.00	179.70	205.43	227.00	227.00	194.43	112.39	147.08	133.96	165.26	202.42	207.09	112.39	185.73	82.90	227.00
Min.	81.20	89.79	85.95	75.50	75.00	75.00	75.00	75.00	75.00	88.29	75.52	75.00	75.00	83.79	75.00	227.00
Avg.	141.42	132.53	137.96	133.25	165.21	146.07	98.45	122.94	121.25	136.98	131.69	139.81	86.98	133.96	75.00	227.00
Max.	227.00	227.00	225.98	227.00	227.00	227.00	174.81	173.07	146.85	183.65	227.00	227.00	146.85	192.01	227.00	227.00
Daily Min.	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00
Daily Max.	227.00	227.00	227.00	227.00	227.00	227.00	227.00	223.82	162.74	227.00	227.00	227.00	227.00	227.00	227.00	227.00

Table D-18 LGF Power Simulation Results (Power Oriented, 1995 Abstraction)

(Unit: MW)

	Daily												Min.	Max.			
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.			Min.	Max.	
1957	141.78	140.38	138.74	138.54	141.50	142.41	141.45	141.63	140.80	139.67	139.77	142.46	138.54	140.76	142.46	137.57	142.46
1958	141.78	140.38	138.74	137.33	141.42	142.45	142.45	141.92	140.80	139.66	139.70	142.33	137.33	140.75	142.45	136.91	142.46
1959	141.78	140.38	138.74	136.86	139.03	140.96	141.29	141.64	140.61	139.66	138.71	142.08	136.86	140.15	142.08	136.64	142.46
1960	141.78	140.38	138.70	139.02	140.49	140.60	140.31	139.87	139.24	138.75	139.13	140.85	137.12	139.78	142.46	137.12	142.46
1961	142.45	140.67	138.75	138.71	138.49	141.22	141.22	141.22	140.65	140.81	142.46	142.46	138.49	140.98	142.46	136.75	142.46
1962	142.45	140.38	138.75	139.05	142.04	142.41	142.23	141.92	140.80	139.67	140.26	140.69	138.75	140.92	142.45	137.60	142.46
1963	141.53	140.34	138.74	138.97	142.46	142.46	142.41	141.92	140.80	139.66	140.31	142.46	138.74	141.01	142.46	137.56	142.46
1964	142.03	140.38	138.75	139.82	142.46	142.45	142.42	141.92	140.80	139.66	140.42	142.28	138.75	141.12	142.46	137.62	142.46
1965	141.78	140.38	138.74	139.54	141.15	142.42	142.15	141.88	140.80	139.67	140.68	142.46	138.54	140.89	142.46	137.59	142.46
1966	141.78	140.38	138.76	139.87	142.43	142.41	142.38	141.92	140.80	139.69	142.24	142.37	138.76	141.25	142.43	137.62	142.46
1967	141.78	140.38	138.74	137.76	142.01	142.46	142.41	141.88	140.80	139.82	142.20	142.46	137.76	141.06	142.46	137.04	142.46
1968	141.78	140.38	139.22	140.05	142.46	142.46	142.45	141.92	140.80	139.67	140.89	142.46	139.22	141.21	142.46	137.86	142.46
1969	142.09	140.40	138.83	139.07	141.27	142.42	142.39	141.92	140.80	139.66	139.85	142.45	138.83	140.93	142.45	137.66	142.46
1970	141.78	140.34	138.74	139.33	142.32	142.44	142.27	141.92	140.80	139.66	138.71	140.05	137.83	140.41	142.42	136.75	142.46
1971	140.78	140.38	138.68	137.83	141.30	142.38	142.42	141.92	140.80	139.66	139.84	140.29	138.74	140.81	142.44	137.28	142.46
1972	141.10	140.38	138.66	136.91	138.10	139.94	140.46	140.78	140.72	139.68	140.63	142.29	136.91	139.97	142.29	136.77	142.46
1973	141.79	140.38	138.74	138.84	140.77	142.25	142.35	141.88	140.76	139.66	139.33	140.58	138.74	140.61	142.35	137.59	142.46
1974	141.06	140.38	138.71	138.74	140.62	141.88	142.42	141.92	140.80	139.66	140.06	141.48	138.71	140.64	142.42	137.09	142.46
1975	141.71	140.38	138.73	138.15	140.86	142.38	142.31	141.89	140.79	139.63	138.70	140.71	138.15	140.52	142.38	136.91	142.46
1976	141.36	140.38	138.71	137.00	139.12	141.40	142.04	141.88	140.76	139.44	138.68	140.37	137.00	140.09	142.04	136.64	142.46
1977	141.71	140.38	138.71	138.91	141.94	142.45	142.27	141.92	140.80	139.66	141.01	142.46	138.71	141.02	142.46	136.84	142.46
1978	141.79	140.38	138.62	142.06	142.46	142.45	142.41	141.92	140.80	139.73	140.80	142.45	139.62	141.41	142.46	139.16	142.46
1979	141.81	141.50	138.88	139.47	142.46	142.46	142.41	141.88	140.80	139.66	141.05	142.42	138.88	141.23	142.46	137.58	142.46
1980	141.79	140.38	138.74	137.92	139.75	142.12	142.39	141.91	140.80	139.66	140.70	142.45	137.92	140.72	142.45	137.44	142.46
1981	141.79	140.38	138.83	140.51	142.46	142.45	142.45	141.92	140.80	139.67	140.22	142.20	138.83	141.14	142.45	137.65	142.46
1982	141.79	140.38	138.74	138.78	141.45	142.45	142.45	141.92	140.80	140.39	142.43	142.46	138.74	141.17	142.46	137.08	142.46
1983	141.78	140.38	138.74	139.10	142.29	142.45	142.45	141.92	140.80	139.67	139.86	141.75	138.74	140.93	142.45	137.59	142.46
1984	141.78	140.38	138.73	137.06	137.78	137.66	137.08	136.37	135.26	136.02	140.37	142.41	135.26	138.41	142.41	134.29	142.46
1985	141.75	140.38	138.74	138.86	141.59	142.45	142.46	141.92	140.80	139.66	140.25	142.44	137.90	140.85	142.45	136.78	142.46
1986	141.78	140.38	138.69	137.90	141.52	142.45	142.45	141.92	140.80	139.66	139.60	142.11	138.74	140.86	142.46	136.78	142.46
1987	141.78	140.38	138.74	138.14	139.80	142.17	142.43	141.92	140.80	139.66	139.43	141.62	138.14	140.57	142.43	136.84	142.46
1988	141.67	140.34	138.76	139.55	142.46	142.45	142.38	141.92	140.80	139.66	140.96	142.45	138.76	141.12	142.46	136.90	142.46
1989	141.83	140.38	138.75	139.09	141.38	142.44	142.42	141.92	140.80	139.65	141.84	142.46	138.75	141.08	142.46	137.62	142.46
1990	142.38	140.50	139.69	142.31	142.46	142.45	142.45	141.92	140.80	139.74	140.85	142.45	139.69	141.50	142.46	138.99	142.46
Min.	140.78	140.34	138.66	136.86	137.78	137.66	137.08	136.37	135.26	136.02	138.68	140.05	135.26	138.41	141.78		
Avg.	141.74	140.42	138.81	138.82	141.26	142.05	142.01	141.62	140.58	139.59	140.35	141.93	138.35	140.77	142.40		
Max.	142.45	141.50	139.69	142.31	142.46	142.46	142.46	141.92	140.80	140.81	142.45	142.45	139.69	141.50	142.46		
Daily																	
Min.	140.45	139.18	137.28	136.64	136.87	137.36	136.77	135.99	134.44	134.29	137.88	139.50				134.29	
Max.	142.46	142.21	140.85	142.46	142.46	142.46	142.46	142.46	141.33	142.46	142.46	142.46					142.46

Table D-19 LGF Energy Simulation Results (Power Oriented, 1995 Abstraction)

(Unit: GWh/y)

	Monthly												Ann. Tot.	Daily		
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.		Min.	Avg.	Max.
1957	67.48	56.74	57.87	39.95	92.07	79.76	35.98	52.57	52.17	54.00	36.41	71.89	696.89	35.98	58.07	92.07
1958	57.91	42.42	59.47	34.05	88.32	95.92	63.47	62.85	53.86	55.27	35.54	66.87	715.95	34.05	59.66	95.92
1959	55.07	38.69	58.21	33.76	34.48	33.83	35.58	40.40	44.93	54.95	33.96	52.47	516.33	33.76	42.03	58.21
1960	46.42	35.61	45.06	45.45	35.77	33.74	34.80	34.69	33.42	43.00	35.78	34.93	458.67	33.42	38.22	46.42
1961	41.71	34.84	36.49	36.50	45.70	35.82	35.02	35.64	46.09	80.23	102.57	105.99	636.60	34.84	34.89	105.99
1962	105.98	80.55	67.03	55.76	105.68	75.47	43.20	61.95	57.58	68.09	36.77	87.84	787.95	34.89	65.66	105.98
1963	44.36	50.79	61.15	59.57	105.99	98.21	55.78	61.82	57.04	58.43	47.53	70.93	822.01	44.36	65.65	105.99
1964	100.52	62.77	67.03	79.55	105.99	74.95	41.55	62.81	57.81	61.18	37.12	70.93	822.01	37.12	68.50	105.99
1965	77.13	61.54	63.75	37.28	40.25	36.02	35.37	38.27	35.53	57.95	55.58	53.10	591.77	35.37	49.31	77.13
1966	58.61	60.57	68.65	88.16	102.89	65.25	41.66	63.25	58.02	61.98	101.18	49.96	820.18	41.66	68.35	102.89
1967	52.12	47.70	60.45	35.52	99.23	100.26	63.90	67.26	64.27	83.37	102.39	101.72	878.19	35.52	73.18	102.39
1968	81.90	65.03	103.09	99.17	105.99	102.07	79.49	78.01	64.99	71.54	78.31	105.99	1035.58	64.99	86.30	105.99
1969	105.72	81.43	91.50	63.75	73.94	45.57	39.13	54.37	60.28	63.81	36.88	52.73	769.11	36.88	64.09	105.72
1970	58.48	47.40	49.25	85.66	102.73	71.70	42.76	47.50	58.95	61.99	38.15	34.79	716.16	34.79	59.68	102.73
1971	36.47	34.99	37.60	37.21	45.25	39.85	38.59	47.50	57.43	59.77	34.23	34.73	503.62	34.23	41.97	59.77
1972	38.55	36.60	38.51	33.03	34.25	33.59	34.83	35.52	34.73	53.78	71.23	69.06	513.68	33.03	42.81	71.23
1973	75.10	60.79	61.51	44.44	41.93	38.62	35.78	43.07	43.35	58.43	34.53	34.86	572.41	34.53	47.70	75.10
1974	41.40	41.50	46.29	54.85	40.05	34.44	45.54	65.85	56.84	59.22	47.48	39.38	572.64	34.44	47.72	65.85
1975	46.93	41.79	47.59	48.12	48.31	39.99	35.82	43.17	37.42	43.02	40.84	34.90	501.45	34.90	41.79	48.31
1976	37.56	34.50	39.41	32.99	34.50	35.24	35.80	40.80	36.69	40.84	33.39	34.81	436.53	32.99	36.38	40.84
1977	45.66	38.95	47.89	74.43	104.72	92.22	47.71	64.67	58.39	59.37	89.15	105.61	828.77	38.95	69.06	105.61
1978	90.03	64.91	96.36	102.28	105.99	102.57	46.63	67.27	61.25	71.08	72.82	85.55	937.43	46.63	78.12	105.99
1979	85.24	95.09	90.94	81.31	105.99	102.57	69.24	66.81	60.13	63.24	76.23	50.35	947.14	50.35	50.94	74.13
1980	57.94	52.56	62.55	37.51	34.66	35.53	36.02	44.55	55.12	58.96	74.13	61.76	611.29	34.66	50.94	74.13
1981	63.89	59.85	75.43	96.80	105.99	87.77	47.95	66.36	60.64	64.99	40.81	40.81	810.69	40.81	67.56	105.99
1982	52.42	46.41	57.85	49.87	89.28	93.95	48.21	70.30	59.53	82.39	102.55	101.89	854.75	46.41	71.23	102.55
1983	84.85	62.70	64.20	55.15	105.87	72.78	41.66	63.38	58.57	61.93	44.69	38.77	754.65	38.77	62.89	105.87
1984	54.10	46.78	47.21	34.15	34.17	33.04	34.00	33.82	32.47	39.57	51.26	64.42	504.99	32.47	42.08	64.42
1985	60.50	49.11	51.85	68.01	93.03	78.36	42.12	63.94	59.49	62.50	35.80	44.65	709.36	35.80	59.11	93.03
1986	46.14	43.20	47.24	38.65	98.34	90.09	45.44	57.81	60.65	49.79	49.79	87.19	726.44	38.65	60.54	98.34
1987	67.12	55.29	63.18	40.12	34.67	45.45	38.20	51.53	55.43	56.12	34.22	40.12	581.51	34.22	48.46	67.12
1988	46.48	42.95	59.80	82.54	105.99	77.98	40.98	63.78	58.55	72.05	83.36	90.36	824.84	40.98	68.74	105.99
1989	93.09	62.17	68.47	67.70	84.63	67.33	40.32	61.47	59.52	82.24	102.13	105.99	895.26	40.32	74.60	105.99
1990	105.93	73.11	93.34	102.47	105.99	86.89	50.36	66.34	59.43	75.25	105.99	105.99	1004.94	50.36	83.74	105.99
Min.	36.47	34.50	36.49	32.99	34.17	33.04	34.00	33.82	32.47	39.57	33.39	34.73	436.53	32.47	36.38	40.84
Avg.	64.20	53.22	61.36	58.11	76.25	64.94	44.20	55.89	53.16	61.65	58.21	64.26	715.46	38.53	59.62	88.87
Max.	105.98	95.09	103.09	102.47	105.99	102.57	79.49	78.01	64.99	83.37	102.57	105.99	1035.58	64.99	86.30	105.99
Daily																
Min.	1.12	1.11	1.10	1.09	1.09	1.10	1.09	1.09	1.08	1.08	1.10	1.12	1.08	1.08	1.08	3.42
Max.	3.42	3.41	3.38	3.42	3.42	3.42	3.42	3.37	2.31	3.42	3.42	3.42	3.42	3.42	3.42	3.42

Table D-20 LGF Ave. Reservoir Water Level Simulation Results (Flood Oriented, 1995 Abstraction)

(Unit: EL.m)

	Daily																
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.
1957	511.63	510.65	510.02	503.05	507.98	511.99	511.99	511.99	511.08	510.47	504.15	507.36	503.05	509.35	511.99	501.81	512.00
1958	510.35	510.77	510.03	502.47	507.10	512.00	511.99	511.70	511.06	510.47	504.03	506.68	502.47	509.06	512.00	501.59	512.00
1959	509.64	510.16	509.99	502.19	503.00	504.48	504.78	504.85	505.16	506.50	500.28	502.55	500.28	505.30	510.16	499.02	510.31
1960	504.27	504.34	504.24	498.14	500.68	501.13	500.96	500.68	500.25	499.77	492.89	494.48	492.89	500.15	504.34	491.40	504.73
1961	495.33	495.17	494.64	492.82	497.60	500.17	500.23	499.92	500.04	503.67	512.00	512.00	492.82	500.30	512.00	491.40	512.00
1962	511.99	511.02	510.02	503.90	510.64	511.99	511.99	511.70	511.08	510.47	504.32	504.70	503.90	509.49	511.99	502.07	512.00
1963	505.16	505.96	507.81	503.06	511.67	512.00	511.99	511.70	511.08	510.47	504.46	509.18	503.06	508.71	512.00	501.13	512.00
1964	511.76	510.85	510.03	506.07	512.00	511.99	512.00	511.70	511.08	510.47	504.35	507.20	504.35	509.96	512.00	502.22	512.00
1965	510.97	510.85	510.02	503.25	505.00	506.48	506.74	506.73	506.53	507.12	503.58	506.76	503.25	507.00	510.97	501.39	511.53
1966	508.34	510.27	510.03	506.11	511.91	511.99	512.00	511.70	511.08	510.48	510.42	511.99	506.11	510.53	512.00	502.27	512.00
1967	511.63	510.86	510.02	502.86	509.35	512.00	511.99	511.70	511.08	510.55	509.73	512.00	502.86	510.31	512.00	501.82	512.00
1968	511.63	510.86	510.23	507.43	512.00	512.00	511.99	511.70	511.08	510.47	506.93	512.00	506.93	510.69	512.00	503.36	512.00
1969	511.80	510.87	510.05	504.99	509.84	512.00	512.00	511.70	511.08	510.47	504.08	506.43	504.08	509.61	512.00	502.68	512.00
1970	508.19	509.59	509.93	505.88	511.50	511.99	511.99	511.70	511.08	510.47	504.21	504.44	504.21	509.25	511.99	502.58	512.00
1971	504.60	504.45	504.14	495.54	499.41	501.59	502.56	503.39	504.88	506.89	501.05	501.44	495.54	502.50	506.89	493.48	507.92
1972	502.00	502.05	501.93	492.33	492.80	494.98	495.70	495.93	495.49	495.85	494.80	502.39	492.33	497.19	502.39	491.40	504.24
1973	506.31	509.22	510.01	503.45	505.84	507.50	508.06	508.35	508.67	509.91	503.80	504.16	503.45	507.11	510.01	501.89	510.38
1974	504.38	504.84	505.15	499.84	502.90	503.92	504.71	507.10	509.31	510.37	504.87	506.34	499.84	505.31	510.37	497.26	510.57
1975	507.18	507.76	508.16	502.27	505.69	507.79	508.31	508.65	508.84	508.83	502.40	503.26	502.27	506.59	508.84	500.76	509.22
1976	503.42	503.13	502.95	493.05	494.30	496.82	497.84	498.20	498.26	498.39	492.27	494.08	492.27	497.72	503.42	491.40	503.47
1977	495.74	496.14	496.80	495.23	506.52	511.99	511.99	511.70	511.08	510.47	507.06	511.99	495.23	505.56	511.99	491.40	512.00
1978	511.63	510.86	510.44	510.43	512.00	511.99	511.99	511.70	511.08	510.50	506.75	511.19	506.75	510.88	512.00	504.38	512.00
1979	511.64	511.47	510.08	505.64	511.94	512.00	511.99	511.70	511.08	510.47	506.55	510.32	505.64	510.41	512.00	502.42	512.00
1980	511.99	510.86	510.02	503.01	504.01	505.39	505.86	506.29	507.46	509.27	506.31	510.90	503.01	507.56	511.39	501.89	511.79
1981	511.62	510.85	510.05	507.61	512.00	512.00	512.00	511.70	511.08	510.47	504.38	505.86	504.38	509.97	512.00	502.68	512.00
1982	507.00	508.10	509.20	503.98	508.70	512.00	512.00	511.70	511.08	510.86	509.89	512.00	503.98	509.71	512.00	502.14	512.00
1983	511.63	510.85	510.02	503.73	510.62	511.99	512.00	511.70	511.08	510.47	504.85	505.99	503.73	509.58	512.00	501.94	512.00
1984	507.34	508.44	509.17	502.31	502.09	502.04	501.76	501.43	500.94	501.39	497.05	501.73	497.05	502.97	509.17	494.00	509.57
1985	504.42	505.91	506.84	502.57	508.86	511.99	512.00	511.70	511.08	510.47	504.03	505.54	502.57	507.95	512.00	500.15	512.00
1986	506.62	507.12	507.79	501.22	506.55	511.99	512.00	511.70	511.08	510.47	504.52	509.99	501.22	508.42	512.00	499.86	512.00
1987	511.63	510.86	510.02	503.33	504.35	506.22	507.55	508.33	509.91	510.46	503.88	505.10	503.33	507.64	511.63	502.11	512.00
1988	505.61	506.26	507.29	504.73	511.97	511.99	512.00	511.70	511.08	510.48	506.72	511.81	504.73	509.30	512.00	501.26	512.00
1989	511.65	510.85	510.02	504.73	510.32	511.99	512.00	511.70	511.08	510.50	509.17	512.00	504.73	510.50	512.00	502.49	512.00
1990	511.95	510.92	510.48	510.91	512.00	512.00	512.00	511.70	511.08	510.51	507.53	511.76	507.53	511.07	512.00	504.52	512.00
Min.	495.33	495.17	494.64	492.33	492.80	494.98	495.70	495.93	495.49	495.85	492.27	494.08	492.27	497.19	502.39	491.40	512.00
Avg.	507.95	508.04	507.87	502.59	506.86	508.54	508.73	508.69	508.49	508.50	504.21	506.93	501.76	507.28	510.69	507.28	512.00
Max.	511.99	511.47	510.48	510.91	512.00	512.00	512.00	511.70	511.08	510.86	512.00	512.00	507.53	511.07	512.00	511.40	512.00
Daily Min.	495.13	494.97	494.32	491.40	491.55	494.23	495.42	495.88	495.14	495.13	491.40	493.00	491.40	491.40	491.40	491.40	512.00
Daily Max.	512.00	511.86	511.11	512.00	512.00	512.00	512.00	512.00	511.38	511.92	512.00	512.00	512.00	511.07	512.00	512.00	512.00



Table D-21 LGF Outflow Simulation Results (Flood Oriented, 1995 Abstraction)

(Unit: m<sup>3</sup>/s)

	Daily																
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.
1957	148.71	136.87	129.32	239.83	115.17	201.10	78.23	114.87	120.49	122.23	239.83	75.00	75.00	143.47	239.83	75.00	1146.00
1958	75.00	95.06	132.53	239.83	125.44	279.37	143.38	136.00	123.68	123.92	239.83	75.00	75.00	149.09	279.37	75.00	1146.00
1959	75.00	75.00	121.66	239.83	75.00	75.00	75.00	75.00	75.00	75.00	239.83	75.00	75.00	106.36	239.83	75.00	1146.00
1960	75.00	75.00	75.00	239.83	75.00	75.00	75.00	75.00	75.00	75.00	207.70	75.00	75.00	99.79	239.83	69.24	2237.21
1961	75.00	75.00	75.00	111.88	75.00	75.00	75.00	75.00	75.00	89.71	1608.13	781.14	75.00	265.90	336.33	75.00	1146.00
1962	336.33	196.87	152.30	239.83	313.65	175.99	99.28	134.66	130.56	142.30	239.83	75.00	75.00	186.38	336.33	75.00	1146.00
1963	75.00	75.00	75.00	239.83	558.39	294.96	125.97	134.18	129.55	129.63	239.83	75.00	75.00	179.36	558.39	75.00	1146.00
1964	230.04	157.93	148.34	328.97	480.86	172.62	96.85	136.78	130.62	134.63	239.83	75.00	75.00	194.37	480.86	75.00	1146.00
1965	108.77	152.08	140.10	239.83	75.00	75.00	75.00	75.00	75.00	75.00	239.83	75.00	75.00	117.13	239.83	75.00	1146.00
1966	75.00	95.87	152.94	239.83	314.00	152.43	96.64	136.54	131.38	138.02	316.23	113.14	75.00	163.50	316.23	75.00	1146.00
1967	116.37	118.99	134.76	239.83	348.89	323.80	144.27	151.69	146.07	183.65	357.34	318.04	116.37	215.51	357.34	75.00	1146.00
1968	180.55	163.62	225.98	363.22	544.84	307.99	178.19	173.07	146.85	158.10	268.71	709.22	146.85	285.03	709.22	75.00	1466.90
1969	239.10	197.91	203.04	239.83	75.10	106.86	91.63	120.66	135.52	141.12	239.83	75.00	75.00	155.47	239.83	75.00	1146.00
1970	75.00	75.00	100.52	239.83	196.59	167.49	97.61	138.82	133.07	136.87	239.83	75.00	75.00	139.64	239.83	75.00	1146.00
1971	75.00	75.00	75.00	239.83	75.00	75.00	75.00	75.00	75.00	75.00	239.83	75.00	75.00	102.47	239.83	75.00	1146.00
1972	75.00	75.00	75.00	239.83	75.00	75.00	75.00	75.00	75.00	75.00	190.03	75.00	75.00	96.98	223.72	71.22	1146.00
1973	75.00	75.00	75.00	239.83	75.00	75.00	75.00	75.00	75.00	91.57	239.83	75.00	75.00	108.38	239.83	75.00	1146.00
1974	75.00	75.00	75.00	239.83	75.00	75.00	75.00	75.00	75.00	115.28	239.83	75.00	75.00	105.83	239.83	75.00	1146.00
1975	75.00	75.00	75.00	239.83	75.00	75.00	75.00	75.00	75.00	75.00	239.83	75.00	75.00	102.47	239.83	75.00	1146.00
1976	75.00	75.00	75.00	239.83	75.00	75.00	75.00	75.00	75.00	75.00	171.37	75.00	75.00	96.77	239.83	73.27	1146.00
1977	75.00	75.00	75.00	239.83	75.00	75.00	75.00	75.00	75.00	131.28	239.83	267.60	75.00	146.42	267.60	75.00	1146.00
1978	195.55	161.06	211.78	632.85	527.22	170.13	108.80	146.20	137.38	157.14	239.83	125.83	108.80	234.48	632.85	75.00	1146.00
1979	186.69	227.00	201.76	239.83	502.34	355.95	154.40	144.40	135.23	139.84	239.83	75.00	75.00	219.35	502.34	75.00	1146.00
1980	100.01	129.06	138.34	239.83	75.00	75.00	75.00	75.00	75.00	78.16	239.83	75.00	75.00	114.60	239.83	75.00	1146.00
1981	133.23	143.99	166.68	293.72	525.54	227.45	109.09	143.14	136.19	143.53	239.83	75.00	75.00	194.78	525.54	75.00	1146.00
1982	75.00	75.00	87.42	239.83	129.95	269.15	109.92	156.55	134.75	179.95	275.87	275.07	75.00	167.37	275.87	75.00	1146.00
1983	185.71	156.80	141.89	239.83	189.08	167.33	96.92	136.73	132.53	137.11	239.83	75.00	75.00	158.23	239.83	75.00	1146.00
1984	75.00	75.00	75.00	239.83	75.00	75.00	75.00	75.00	75.00	75.00	239.83	75.00	75.00	102.47	239.83	75.00	1146.00
1985	75.00	75.00	75.00	239.83	135.66	190.10	98.39	138.22	134.06	138.82	239.83	75.00	75.00	134.58	239.83	75.00	1146.00
1986	75.00	75.00	75.00	239.83	75.00	218.16	104.40	134.08	130.94	135.08	239.83	80.37	75.00	131.89	239.83	75.00	1146.00
1987	147.93	135.99	139.22	239.83	75.00	75.00	75.00	75.00	75.00	119.66	239.83	75.00	75.00	122.71	239.83	75.00	1146.00
1988	75.00	75.00	75.00	244.90	603.83	184.03	95.22	138.12	132.35	158.78	239.83	172.63	75.00	182.89	603.83	75.00	1146.00
1989	201.83	156.43	154.61	239.83	106.38	157.54	94.31	133.37	134.52	181.01	315.89	322.86	94.31	183.22	322.86	75.00	1146.00
1990	298.94	179.70	205.43	587.02	458.96	209.74	115.24	147.18	133.96	165.26	239.83	212.35	115.24	244.47	587.02	75.00	1146.00
Min.	75.00	75.00	75.00	111.88	75.00	75.00	75.00	75.00	75.00	75.00	171.37	75.00	75.00	96.77	239.83	75.00	1146.00
Avg.	124.55	114.12	123.32	262.61	218.00	163.89	97.74	115.00	111.09	122.73	285.50	150.10	81.08	157.39	371.90	75.00	1146.00
Max.	336.33	227.00	225.98	632.85	603.83	385.85	178.19	173.07	146.85	183.65	1608.13	781.14	146.85	285.03	1608.13	75.00	1146.00
Daily																	
Min.	75.00	75.00	75.00	69.24	75.00	75.00	75.00	75.00	75.00	75.00	73.27	75.00	75.00	69.24	2237.21	75.00	1146.00
Max.	572.03	227.00	227.00	1146.00	1003.03	657.35	227.64	223.82	162.74	162.74	2237.21	1466.90	146.85	285.03	1608.13	75.00	1146.00

Table D-22 LGF Power Outflow Simulation Results (Flood Oriented, 1995 Abstraction)  
(Unit:m3/s)

	Daily												Daily Min.	Max.			
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.			Min.	Max.	
1957	147.98	136.87	129.32	108.83	99.52	178.11	78.04	114.87	120.49	122.23	109.13	75.00	75.00	118.36	178.11	75.00	227.00
1958	75.00	95.06	132.53	108.82	99.52	212.59	138.76	136.00	123.68	123.92	109.08	75.00	75.00	119.16	212.59	75.00	227.00
1959	75.00	75.00	121.66	108.77	75.00	75.00	75.00	75.00	75.00	75.00	107.91	75.00	75.00	84.45	121.66	75.00	226.32
1960	75.00	75.00	75.00	106.81	75.00	75.00	75.00	75.00	75.00	75.00	99.12	75.00	75.00	79.66	106.81	75.00	218.22
1961	75.00	75.00	75.00	82.47	75.00	75.00	75.00	75.00	75.00	89.71	227.00	227.00	227.00	102.18	227.00	69.24	227.00
1962	227.00	196.87	152.30	108.88	177.97	169.63	96.97	133.99	130.56	142.30	109.16	75.00	75.00	143.39	227.00	75.00	227.00
1963	75.00	75.00	75.00	108.54	212.29	217.82	124.22	133.67	129.55	129.63	109.13	75.00	75.00	122.07	217.82	75.00	227.00
1964	212.09	157.93	148.34	137.61	227.00	167.97	94.52	136.43	130.62	134.63	109.13	75.00	75.00	144.27	227.00	75.00	227.00
1965	108.77	152.08	140.10	108.85	75.00	75.00	75.00	75.00	75.00	75.00	108.48	75.00	75.00	95.27	152.08	75.00	226.33
1966	75.00	95.87	152.94	108.92	217.44	147.59	94.93	136.54	131.38	138.02	186.48	111.95	75.00	133.09	217.44	75.00	227.00
1967	116.37	118.99	134.76	108.85	158.35	222.09	139.07	151.06	146.07	183.65	158.24	218.39	108.85	154.66	222.09	75.00	227.00
1968	180.55	163.62	225.98	144.63	227.00	225.82	174.81	173.07	146.85	158.10	124.51	227.00	124.51	180.99	227.00	75.00	227.00
1969	227.00	197.91	203.04	109.03	75.10	106.08	90.27	120.66	135.52	141.12	109.12	75.00	75.00	132.49	227.00	75.00	227.00
1970	75.00	75.00	100.52	109.00	196.59	161.93	96.24	138.52	133.07	136.87	109.14	75.00	75.00	117.24	196.59	75.00	227.00
1971	75.00	75.00	75.00	106.23	75.00	75.00	75.00	75.00	75.00	75.00	108.20	75.00	75.00	80.37	108.20	75.00	223.58
1972	75.00	75.00	75.00	100.21	75.00	75.00	75.00	75.00	75.00	75.00	103.42	75.00	75.00	79.47	103.42	71.22	213.02
1973	75.00	75.00	129.29	108.84	75.00	75.00	75.00	75.00	75.00	91.57	109.10	75.00	75.00	86.57	129.29	75.00	227.00
1974	75.00	75.00	75.00	107.29	75.00	75.00	75.00	75.00	75.00	115.28	109.10	75.00	75.00	83.89	115.28	75.00	227.00
1975	75.00	75.00	75.00	108.48	75.00	75.00	75.00	75.00	75.00	75.00	108.62	75.00	75.00	80.59	108.62	75.00	225.80
1976	75.00	75.00	75.00	105.60	75.00	75.00	75.00	75.00	75.00	75.00	93.88	75.00	75.00	79.12	105.60	73.27	214.91
1977	75.00	75.00	75.00	97.64	97.24	205.79	105.89	139.04	132.40	131.28	109.23	216.33	75.00	121.65	216.33	75.00	227.00
1978	195.55	161.06	211.78	108.95	227.00	165.82	104.47	145.66	137.38	157.14	109.56	124.29	104.47	162.57	227.00	75.00	227.00
1979	186.69	227.00	201.76	108.84	227.00	227.00	150.80	143.90	135.23	139.84	109.14	75.00	75.00	161.03	227.00	75.00	227.00
1980	100.01	129.06	138.34	108.84	75.00	75.00	75.00	75.00	75.00	78.16	109.21	75.00	75.00	92.80	138.34	75.00	227.00
1981	133.23	143.99	166.68	151.29	227.00	195.45	108.17	143.14	136.19	143.53	109.12	75.00	75.00	144.40	227.00	75.00	227.00
1982	75.00	75.00	87.42	108.93	94.61	209.06	108.59	155.79	134.75	179.95	146.17	215.98	75.00	132.60	215.98	75.00	227.00
1983	185.71	156.80	141.89	108.86	160.88	163.48	95.59	136.73	132.53	137.11	109.27	75.00	75.00	133.65	185.71	75.00	227.00
1984	75.00	75.00	75.00	108.80	75.00	75.00	75.00	75.00	75.00	75.00	106.21	75.00	75.00	80.42	108.80	75.00	226.30
1985	75.00	75.00	75.00	108.15	111.45	176.29	96.73	138.22	134.06	138.82	109.14	75.00	75.00	109.41	176.29	75.00	227.00
1986	75.00	75.00	75.00	108.14	75.00	193.34	102.61	134.07	130.94	135.08	109.14	80.06	75.00	107.78	193.34	75.00	227.00
1987	147.93	135.99	139.22	108.84	75.00	75.00	75.00	75.00	75.00	119.66	109.09	75.00	75.00	100.89	147.93	75.00	227.00
1988	75.00	75.00	75.00	113.57	227.00	174.56	93.75	137.48	132.35	158.78	109.22	157.76	75.00	127.46	227.00	75.00	227.00
1989	201.83	166.43	164.61	108.91	106.38	152.47	92.99	133.37	134.52	181.01	155.11	227.00	92.99	150.39	227.00	75.00	227.00
1990	227.00	179.70	205.43	221.61	227.00	194.43	112.39	147.08	133.96	165.26	109.54	174.69	109.54	174.84	227.00	75.00	227.00
Min.	75.00	75.00	75.00	82.47	75.00	75.00	75.00	75.00	75.00	75.00	93.88	75.00	75.00	79.12	103.42	69.24	227.00
Avg.	118.31	114.12	123.32	116.77	130.77	142.42	96.32	114.83	111.09	122.73	118.15	108.98	79.86	118.15	181.63	75.00	227.00
Max.	227.00	227.00	225.98	221.61	227.00	227.00	174.81	173.07	146.85	183.65	227.00	227.00	124.51	180.99	227.00	69.24	227.00
Daily Min.	75.00	75.00	75.00	69.24	75.00	75.00	75.00	75.00	75.00	75.00	73.27	75.00	75.00	69.24	75.00	69.24	227.00
Max.	227.00	227.00	227.00	227.00	227.00	227.00	227.00	223.82	162.74	227.00	227.00	227.00	227.00	227.00	227.00	69.24	227.00

Table D-23 LGF Power Simulation Results (Flood Oriented, 1995 Abstraction)

(Unit: MW)

Year	Monthly Data												Daily				
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.
1957	141.36	139.96	138.33	116.76	131.79	141.99	141.02	141.21	140.38	139.26	120.63	130.72	116.76	135.28	141.99	112.40	142.03
1958	137.94	139.38	138.34	114.69	128.89	142.03	142.02	141.49	140.38	139.25	120.23	128.74	114.69	134.45	142.03	111.39	142.03
1959	136.60	137.58	138.10	113.68	116.44	121.58	122.60	122.83	123.89	128.42	106.59	114.82	106.59	123.59	138.10	101.63	138.96
1960	120.87	121.12	120.77	98.80	107.84	109.59	108.92	107.82	106.20	104.41	79.54	84.85	79.54	105.89	121.12	74.09	122.42
1961	88.03	87.42	85.44	79.04	96.43	105.90	106.11	104.94	105.40	117.88	142.03	142.03	79.04	105.05	142.03	73.98	142.03
1962	142.02	140.25	138.35	119.77	138.75	142.02	141.81	141.49	140.38	139.26	121.23	122.31	119.77	135.64	142.02	113.45	142.03
1963	123.89	126.66	132.23	116.75	141.28	142.03	141.99	141.49	140.38	139.25	121.67	135.25	116.75	133.57	142.03	109.87	142.03
1964	141.60	139.96	138.35	126.16	142.03	142.03	141.99	141.49	140.38	139.25	121.32	130.22	121.32	137.06	142.03	114.22	142.03
1965	139.49	139.96	138.34	117.51	123.36	128.45	129.25	129.24	128.61	130.28	118.69	129.16	117.51	129.36	139.96	111.31	141.18
1966	133.65	138.13	138.36	126.72	141.87	141.98	141.96	141.49	140.38	139.28	138.72	141.95	126.72	138.71	141.98	114.38	142.03
1967	141.36	139.97	138.33	116.09	135.02	142.03	141.98	141.45	140.38	139.41	136.87	142.03	116.09	137.91	142.03	112.24	142.03
1968	141.36	139.97	138.81	130.43	142.03	142.03	142.02	141.49	140.38	139.26	129.04	142.03	129.04	139.07	142.03	118.36	142.03
1969	141.67	139.98	138.43	123.56	136.66	141.99	141.96	141.49	140.38	139.25	120.37	128.14	120.37	136.16	141.99	115.64	142.03
1970	133.26	136.50	137.73	126.18	141.02	142.02	141.84	141.49	140.38	139.25	120.85	121.45	120.85	135.16	142.02	115.56	142.03
1971	121.99	121.49	120.42	89.20	103.10	111.35	114.87	117.86	122.96	129.59	109.39	110.76	89.20	114.42	129.59	81.18	132.54
1972	112.86	113.03	112.61	77.68	86.70	89.44	90.31	88.62	89.86	89.31	86.51	114.15	77.68	95.06	114.15	73.99	120.73
1973	127.63	135.69	138.21	118.21	126.23	131.37	132.91	133.73	134.59	137.43	119.41	120.51	118.21	129.66	138.21	112.70	139.07
1974	121.23	122.80	123.86	105.03	116.10	119.71	122.37	130.16	135.92	138.72	123.10	127.92	105.03	123.91	138.72	95.76	139.45
1975	130.48	132.10	133.20	113.93	125.69	132.18	133.61	134.55	135.09	135.09	114.41	117.39	113.93	128.14	135.09	108.16	135.82
1976	117.97	116.92	116.26	80.23	84.19	93.63	97.31	98.62	98.86	99.31	77.25	83.38	77.25	96.99	117.97	73.99	118.15
1977	89.59	91.13	93.61	88.00	126.87	142.02	141.84	141.49	140.38	139.25	129.50	141.93	88.00	122.13	142.02	74.00	142.03
1978	141.37	139.97	139.21	138.59	142.03	142.02	141.99	141.49	140.38	139.32	129.12	139.98	129.12	139.62	142.03	121.95	142.03
1979	141.39	141.08	138.47	125.21	141.92	142.03	141.98	141.46	140.38	139.25	128.37	137.88	125.21	138.28	142.03	114.92	142.03
1980	140.39	139.97	138.34	116.64	119.97	124.69	126.31	127.80	131.25	135.91	127.71	138.94	116.64	130.66	140.39	112.79	141.36
1981	141.23	139.96	138.42	130.92	142.03	142.03	142.03	141.49	140.38	139.98	137.31	142.03	120.08	136.51	142.03	115.66	142.03
1982	129.97	133.04	135.89	120.08	133.95	142.03	142.02	141.49	140.38	139.88	137.04	126.74	119.15	136.04	142.02	112.90	142.03
1983	141.36	139.96	138.34	119.15	138.78	142.02	142.02	141.49	140.38	139.26	123.04	126.74	119.15	136.04	142.02	83.87	136.48
1984	130.94	133.98	135.71	114.11	113.17	113.01	112.00	110.73	108.85	110.52	94.80	111.74	94.80	115.80	135.71	83.87	136.48
1985	121.40	126.47	129.51	115.02	134.30	142.02	142.03	141.49	140.38	139.26	120.22	125.21	115.02	131.44	142.03	106.09	142.03
1986	128.87	130.31	132.16	110.06	127.67	141.97	142.03	141.49	140.38	139.26	121.89	137.04	110.06	132.76	142.03	104.78	142.03
1987	141.36	139.97	138.34	117.80	121.14	127.48	131.52	133.65	137.12	139.13	119.69	123.70	117.80	130.91	141.36	113.86	142.03
1988	125.45	127.70	130.77	122.19	141.98	142.02	141.96	141.49	140.38	139.28	128.69	141.37	122.19	135.27	142.02	110.64	142.03
1989	141.41	139.96	138.35	122.64	138.06	142.02	141.99	141.49	140.38	139.24	135.38	142.03	122.64	138.58	142.03	114.97	142.03
1990	141.95	140.08	139.28	139.61	142.02	142.02	141.49	140.38	139.33	139.33	131.16	141.28	131.16	140.07	142.03	122.21	142.03
Min.	88.03	87.42	85.44	77.68	86.70	89.44	90.31	88.62	89.86	89.31	77.25	83.38	77.25	95.06	114.15	73.99	142.03
Avg.	130.94	131.54	131.50	114.43	127.10	132.00	132.58	132.74	132.51	133.90	119.89	127.76	111.75	128.83	138.67	111.75	128.83
Max.	142.02	141.08	139.28	139.81	142.03	142.03	142.03	141.49	140.38	139.98	142.03	142.03	142.03	140.07	142.03	142.03	142.03
Daily	87.25	86.68	84.26	73.98	74.50	83.92	88.35	90.10	87.30	87.25	73.99	79.50	73.99	79.50	73.98	73.98	142.03
Min.	142.03	141.78	140.43	142.03	142.03	142.03	142.03	142.03	140.91	141.90	142.03	142.03	142.03	142.03	142.03	142.03	142.03
Max.																	

Table D-24 LGF Energy Simulation Results (Flood Oriented, 1995 Abstraction)

(Unit: GWh/y)

													Daily				
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Ann. Tot.	Min.	Max.	Min.	Max.
1957	67.22	56.53	57.66	33.93	37.48	62.60	35.87	52.38	51.98	53.80	34.75	32.51	576.71	32.51	67.22	0.91	2.79
1958	34.21	37.86	59.24	33.47	36.82	64.68	63.22	62.61	53.66	55.06	34.66	32.06	567.55	32.06	64.68	0.91	2.56
1959	33.88	30.82	54.57	33.24	29.25	29.44	30.65	30.71	29.95	31.99	31.69	28.88	395.07	28.88	54.57	0.83	2.05
1960	30.26	27.36	30.24	29.81	27.28	26.79	27.53	27.27	26.04	28.49	24.41	22.01	325.51	22.01	30.26	0.63	1.80
1961	22.74	20.41	21.31	21.81	24.67	25.97	26.88	26.61	25.86	32.29	62.29	64.37	375.54	20.41	64.37	0.63	2.08
1962	64.36	62.78	66.77	34.61	54.13	65.70	43.05	61.72	57.36	62.84	34.89	30.59	638.80	30.59	66.77	0.92	2.75
1963	30.95	28.53	32.85	33.98	61.33	67.04	55.57	61.58	56.82	58.21	34.98	33.57	555.41	28.53	67.04	0.90	2.80
1964	66.44	62.67	66.78	42.10	64.37	64.95	41.41	62.57	57.39	60.94	34.91	32.40	656.93	32.40	66.78	0.93	2.73
1965	48.81	61.31	63.51	34.10	30.83	30.96	32.18	31.00	32.41	32.41	34.50	32.15	463.94	30.83	63.51	0.91	2.56
1966	33.18	39.42	65.29	36.16	64.89	62.64	41.52	63.01	57.80	61.23	56.87	49.78	631.79	33.18	65.29	0.93	2.78
1967	51.93	47.53	60.22	33.79	49.53	64.61	63.65	67.00	64.03	66.07	47.84	68.50	684.70	33.79	68.50	0.91	2.80
1968	79.34	64.77	61.49	43.46	64.37	63.26	75.52	77.69	64.74	66.36	39.38	64.37	764.75	39.38	79.34	0.96	2.80
1969	63.95	71.39	72.27	35.37	33.92	45.41	39.00	54.17	60.05	63.57	34.69	31.92	605.71	31.92	72.27	0.94	2.76
1970	33.09	30.58	43.99	36.05	65.42	66.52	42.62	64.06	58.72	61.75	34.80	30.39	567.99	30.39	66.52	0.94	2.79
1971	30.52	27.46	30.16	27.56	26.19	27.18	28.89	29.57	29.74	32.25	32.38	27.95	349.85	26.19	32.38	0.68	1.84
1972	28.43	25.71	28.37	23.94	20.62	21.71	23.07	23.27	22.14	23.18	28.82	28.72	295.98	20.62	28.72	0.61	1.69
1973	31.81	30.40	58.21	34.25	31.49	31.60	33.01	33.19	32.31	41.32	34.48	30.18	422.25	30.18	58.21	0.92	2.11
1974	30.34	27.73	30.94	31.20	29.17	29.03	30.60	32.38	32.63	50.63	31.87	31.87	391.82	27.73	50.63	0.79	2.73
1975	32.46	29.65	33.07	33.34	31.36	31.78	33.16	33.38	32.42	33.49	33.47	29.47	387.05	29.47	33.49	0.88	1.85
1976	29.60	26.52	29.21	25.44	21.86	23.25	24.87	25.17	24.41	25.32	22.97	21.67	300.29	21.67	29.60	0.62	1.73
1977	23.10	21.18	24.02	26.58	36.50	67.50	47.54	64.42	58.17	59.14	36.75	63.19	528.09	21.18	67.50	0.63	2.77
1978	77.21	63.29	62.74	57.30	64.37	65.02	46.47	67.02	61.02	62.53	36.44	34.19	717.80	36.44	77.21	0.98	2.79
1979	76.43	57.15	70.59	35.83	64.24	62.29	65.47	66.56	59.90	63.00	36.47	34.19	692.12	34.19	76.43	0.93	2.80
1980	45.49	52.37	62.31	33.91	30.05	30.13	31.50	31.85	31.58	34.87	36.23	34.46	454.75	30.05	62.31	0.92	2.48
1981	61.23	59.62	65.96	44.97	64.37	67.27	47.78	66.11	60.41	61.66	34.93	31.50	665.81	31.50	67.27	0.94	2.78
1982	32.34	29.84	33.96	34.46	37.04	67.89	48.04	68.48	59.41	63.20	49.36	66.19	595.51	29.84	68.48	0.93	2.80
1983	77.97	62.45	63.96	34.46	51.29	62.95	41.52	63.14	58.45	61.70	35.32	31.60	644.81	31.60	77.97	0.92	2.79
1984	32.56	30.03	33.66	33.33	28.50	27.55	28.23	27.94	26.62	27.89	28.79	28.17	353.27	26.62	33.66	0.70	1.87
1985	30.38	28.49	32.24	33.62	40.93	63.62	41.97	63.69	59.26	62.22	34.67	31.25	522.34	28.49	63.69	0.87	2.76
1986	32.09	29.28	32.84	32.52	34.17	66.13	45.28	61.66	57.59	60.19	35.03	36.15	520.58	29.28	66.13	0.86	2.76
1987	65.68	55.08	62.95	30.32	30.32	30.75	32.69	33.18	32.91	53.35	34.54	30.91	496.53	30.32	65.68	0.93	2.75
1988	31.31	28.74	32.52	36.16	64.31	65.42	40.84	63.54	58.33	63.28	36.57	63.20	584.22	28.74	65.42	0.90	2.76
1989	73.29	61.93	68.10	36.26	47.59	61.67	40.19	61.24	59.29	63.71	47.43	64.37	684.07	35.26	73.29	0.94	2.78
1990	64.28	61.80	66.96	59.53	64.37	63.07	50.18	66.09	59.20	63.04	36.90	56.27	716.69	36.90	68.07	0.99	2.79
Min.	22.74	20.41	22.14	21.31	20.62	21.71	23.07	23.27	22.14	23.18	22.97	21.67	295.98	20.41	24.67	0.60	2.80
Avg.	46.08	42.67	49.55	34.98	42.96	50.33	41.18	50.75	47.39	51.15	36.63	39.68	533.36	29.80	44.45	0.60	2.80
Max.	79.34	71.39	72.27	59.53	65.42	68.07	75.52	77.69	64.74	66.36	62.29	68.50	764.75	39.38	79.34	0.60	2.80

Table D-25 LGF Ave. Reservoir Water Level Simulation Results (Irrigation Oriented, 2020 Abstraction)  
(Unit: EL.m)

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Daily Min.	Max.
1957	511.63	510.85	509.71	508.24	509.06	511.88	512.00	511.16	510.93	508.88	507.72	510.52	507.72	510.21	512.00	507.15	512.00
1958	511.63	510.85	508.78	505.90	506.48	511.78	511.99	511.70	511.08	509.47	508.20	510.38	505.90	509.85	511.99	505.22	512.00
1959	511.63	510.85	508.69	505.57	503.16	502.69	504.81	504.74	503.78	501.42	497.81	500.60	497.81	504.65	511.63	497.40	512.00
1960	503.25	505.26	504.23	502.96	501.54	500.06	502.08	502.04	501.08	498.00	494.44	495.51	494.44	500.87	505.26	494.24	506.18
1961	497.70	500.29	498.81	495.23	493.90	493.64	497.03	496.96	495.50	493.87	509.91	512.00	509.19	498.74	512.00	491.69	512.00
1962	511.38	510.94	510.00	509.93	511.67	511.99	512.00	511.69	511.08	509.68	509.21	509.19	509.19	510.78	512.00	508.72	512.00
1963	510.27	510.84	508.85	507.42	511.86	511.99	511.99	511.70	511.08	509.56	508.79	511.69	507.42	510.50	512.00	506.69	512.00
1964	511.63	510.85	509.98	510.42	512.00	511.99	512.00	511.69	511.08	509.58	508.87	510.84	508.87	510.91	512.00	508.32	512.00
1965	511.63	510.86	509.86	508.32	506.53	506.06	508.37	508.54	507.64	509.58	504.25	507.31	504.25	507.89	511.63	502.86	512.00
1966	509.30	510.67	509.13	508.64	511.74	511.99	512.00	511.69	511.08	509.72	511.65	511.99	509.13	510.88	512.00	508.19	512.00
1967	511.63	510.85	508.87	506.41	510.12	512.00	511.99	511.69	511.08	510.26	511.76	512.00	506.41	510.72	512.00	505.98	512.00
1968	511.63	510.86	510.05	510.65	512.00	512.00	511.99	511.38	511.08	509.91	510.92	512.00	509.91	511.23	512.00	509.33	512.00
1969	511.76	510.86	510.03	510.17	510.87	511.47	512.00	511.08	510.97	509.00	507.47	509.41	507.47	510.45	512.00	507.09	512.00
1970	510.93	510.85	508.98	509.66	511.26	511.74	512.00	511.62	511.08	509.77	508.93	508.89	508.89	510.48	512.00	507.78	512.00
1971	509.86	510.74	508.68	506.13	505.41	505.38	508.14	508.60	508.08	505.98	503.17	503.49	503.17	506.97	510.74	502.85	510.98
1972	504.91	506.88	505.93	502.86	499.45	498.80	501.77	502.08	501.21	498.25	498.74	502.65	498.25	501.96	506.88	495.32	507.86
1973	505.84	509.27	509.06	506.56	503.78	503.22	505.91	506.35	505.81	503.80	501.60	501.90	501.60	505.26	509.27	501.43	510.48
1974	502.86	504.82	504.28	503.67	503.26	502.38	505.12	506.75	506.58	504.66	503.06	504.13	502.38	504.30	506.75	501.38	507.22
1975	505.71	507.54	506.54	504.42	504.55	504.79	507.46	507.97	507.42	505.12	502.89	503.71	502.89	505.68	507.97	502.47	508.90
1976	504.73	506.40	505.18	500.58	494.79	492.68	496.29	496.43	495.00	492.01	491.40	491.55	491.40	497.25	506.40	491.40	507.28
1977	493.03	494.88	492.09	492.07	494.59	501.84	507.65	509.47	510.53	509.60	510.50	512.00	492.07	502.35	512.00	491.40	512.00
1978	511.63	510.86	510.22	511.39	512.00	511.99	512.00	511.69	511.08	509.92	510.97	511.99	511.99	511.31	512.00	509.25	512.00
1979	511.64	511.11	510.02	510.25	511.79	512.00	511.99	511.70	511.08	509.76	510.57	511.99	509.76	511.16	512.00	508.77	512.00
1980	511.63	510.85	509.03	506.70	504.42	503.94	506.51	506.77	506.05	503.96	504.29	508.57	503.94	506.89	511.63	501.88	512.00
1981	510.90	510.85	509.77	510.84	512.00	511.99	512.00	511.69	511.08	509.68	508.93	510.04	508.93	510.81	512.00	508.67	512.00
1982	511.63	510.86	508.97	507.65	508.74	511.70	512.00	511.69	511.08	510.24	511.28	512.00	507.65	510.62	512.00	507.13	512.00
1983	511.63	510.85	509.94	509.57	511.57	511.99	512.00	511.65	511.08	509.58	508.90	509.77	508.90	510.71	512.00	508.34	512.00
1984	511.18	510.86	509.07	506.41	503.08	501.35	503.30	503.20	502.20	500.13	500.37	503.33	500.13	504.54	511.18	498.48	511.58
1985	505.92	509.08	509.02	509.05	511.22	511.97	512.00	511.47	511.01	508.73	506.73	508.10	505.92	509.92	512.00	504.52	512.00
1986	509.95	510.82	508.88	506.65	508.20	511.08	512.00	511.66	511.08	509.24	508.34	505.41	506.65	509.97	512.00	506.28	512.00
1987	511.63	510.85	509.10	507.41	504.78	504.50	507.86	508.74	508.84	506.82	504.31	505.41	504.31	507.82	511.63	502.65	512.00
1988	506.71	508.68	508.15	508.50	512.00	511.99	512.00	511.68	511.08	510.01	511.06	511.99	506.71	510.32	512.00	505.74	512.00
1989	511.64	510.86	510.01	510.02	510.32	511.05	512.00	511.48	511.08	510.37	511.28	512.00	510.01	511.01	512.00	509.56	512.00
1990	511.92	510.88	510.35	511.83	512.00	511.99	512.00	511.69	511.08	509.97	511.05	511.99	509.97	511.40	512.00	509.47	512.00
	493.03	494.88	492.09	492.07	493.90	492.68	496.29	496.43	495.00	492.01	491.40	491.55	491.40	497.25	505.26		
Min.	508.86	509.22	507.95	506.86	507.06	507.59	508.89	508.85	508.27	506.54	506.45	507.96	504.58	507.87	511.03		
Avg.	511.98	511.11	510.35	511.83	512.00	512.00	512.00	511.70	511.08	510.37	511.76	512.00	510.01	511.40	512.00		
Max.	491.75	494.35	491.40	491.40	491.40	491.47	494.15	494.57	494.60	491.40	491.40	491.40	491.40	491.40	512.00	491.40	512.00
Daily Min.	512.00	511.74	510.66	512.00	512.00	512.00	512.00	512.00	511.38	510.73	512.00	512.00	512.00	512.00			
Max.																	

Table D-26 LGF Outflow Simulation Results (Irrigation Oriented, 2020 Abstraction)

(Unit:m3/s)

	(Unit:m3/s)												Daily				
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.
1957	145.45	130.42	136.00	119.00	169.00	128.74	66.85	113.00	80.68	159.00	102.00	72.00	66.85	118.51	169.00	38.00	233.86
1958	121.62	98.26	136.00	119.00	169.00	153.94	125.03	127.65	117.20	159.00	102.00	72.00	72.00	127.56	183.94	38.00	318.12
1959	116.45	93.85	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	98.78	169.00	15.00	169.00
1960	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	1023.18	761.91	15.00	86.33	169.00	15.00	2073.53
1961	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	1023.18	761.91	15.00	220.59	1023.18	15.00	2073.53
1962	323.02	182.94	137.60	122.54	349.30	145.39	85.74	125.52	119.92	159.00	102.00	72.00	72.00	160.41	349.30	54.51	661.40
1963	38.00	80.64	136.00	119.00	542.03	265.30	107.64	128.16	119.72	159.00	102.00	137.48	38.00	161.25	542.03	23.00	791.62
1964	190.52	151.49	136.02	228.38	454.78	143.70	81.21	127.44	120.46	159.00	102.00	88.58	81.21	165.30	454.78	68.71	825.71
1965	143.14	121.73	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	103.32	169.00	15.00	169.00
1966	38.00	66.31	136.00	161.87	225.21	115.86	97.12	124.27	124.74	159.00	244.14	108.10	38.00	132.55	244.14	23.00	380.91
1967	110.46	97.81	136.00	119.00	328.73	294.90	124.68	143.30	132.28	172.08	306.09	274.72	97.81	186.67	328.73	27.53	631.32
1968	175.92	157.18	207.47	292.55	518.75	278.03	159.61	164.71	131.72	159.00	226.80	642.66	131.72	259.53	642.66	71.01	1221.94
1969	233.41	187.71	180.48	143.42	169.45	48.31	84.87	113.00	74.01	159.00	102.00	72.00	48.31	130.64	233.41	38.00	298.17
1970	64.34	107.82	136.00	149.40	195.25	69.13	85.75	118.74	126.17	159.00	102.00	72.00	64.34	115.47	195.25	38.00	227.00
1971	38.00	63.75	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	89.73	169.00	15.00	169.00
1972	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.46	169.00	15.00	169.00
1973	38.00	24.53	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1974	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1975	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1976	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1977	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1978	189.67	153.84	207.12	549.03	501.14	140.70	96.71	135.41	127.20	159.00	144.25	227.76	15.00	98.04	227.76	10.79	300.41
1979	182.46	223.20	172.34	170.61	421.84	356.25	135.73	137.98	126.29	159.00	128.85	183.86	96.71	214.38	549.03	70.86	1123.08
1980	123.08	107.45	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	104.49	192.15	169.00	15.00	169.00
1981	62.22	104.84	148.08	230.18	461.17	197.55	98.48	131.10	128.30	159.00	102.00	72.00	62.22	157.91	461.17	38.00	663.39
1982	64.24	99.03	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	62.22	157.91	461.17	38.00	663.39
1983	180.66	150.36	136.39	123.65	216.78	124.51	87.23	122.72	124.42	159.00	102.00	215.88	64.24	144.39	221.43	38.00	283.34
1984	68.24	97.50	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	72.00	133.31	216.78	38.00	227.00
1985	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	94.90	169.00	15.00	169.00
1986	38.00	77.47	136.00	119.00	169.00	51.37	90.35	121.60	118.00	159.00	102.00	134.21	38.00	109.67	169.00	23.00	213.16
1987	143.71	111.38	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	102.51	169.00	15.00	227.00
1988	38.00	23.00	136.00	151.64	529.03	155.79	83.82	126.55	125.69	159.00	162.65	205.94	23.00	158.09	529.03	23.00	872.27
1989	192.11	134.36	142.48	127.77	169.00	40.23	87.78	113.00	116.63	170.59	278.00	290.72	40.23	155.22	290.72	38.00	465.61
1990	263.49	165.94	196.49	499.55	432.87	180.78	105.42	131.50	123.81	159.00	164.29	242.02	105.42	222.10	499.55	85.96	665.33
Min.	38.00	23.00	136.00	102.57	160.25	38.00	15.00	113.00	52.00	159.00	63.12	71.64	15.00	74.96	160.25	38.00	227.00
Avg.	106.59	94.02	143.09	159.80	256.40	109.05	64.48	121.92	90.80	157.79	156.54	148.76	45.58	134.11	298.26	15.00	298.26
Max.	323.02	223.20	207.47	549.03	542.03	356.25	159.61	164.71	132.28	181.77	1023.18	761.91	131.72	259.53	1023.18	38.00	2073.53
Daily																	
Min.	38.00	23.00	10.79	47.81	63.82	38.00	15.00	113.00	52.00	7.52	20.88	65.63				7.52	2073.53
Max.	555.95	227.00	227.00	1123.08	895.50	627.39	209.05	200.76	151.51	227.00	2073.53	1435.01					

Table D-27 LGF Power Outflow Simulation Results (Irrigation Oriented, 2020 Abstraction)

(Unit: m<sup>3</sup>/s)

Year	Monthly Data												Daily				
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.
1957	144.71	130.42	136.00	119.00	169.00	127.62	66.06	113.00	80.68	159.00	102.00	72.00	66.06	118.29	169.00	38.00	227.00
1958	121.62	98.26	136.00	119.00	169.00	164.48	119.56	127.65	117.20	159.00	102.00	72.00	72.00	125.48	169.00	38.00	227.00
1959	116.45	93.85	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	98.78	169.00	15.00	169.00
1960	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1961	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	189.50	227.00	72.00	106.54	227.00	37.13	227.00
1962	227.00	182.94	137.60	122.54	226.38	140.98	82.71	125.52	119.92	159.00	102.00	72.00	38.00	141.51	227.00	23.00	227.00
1963	38.00	80.64	136.00	119.00	223.26	205.72	104.35	128.16	119.72	159.00	102.00	72.00	79.66	129.40	223.26	57.59	227.00
1964	190.42	151.49	136.02	179.30	227.00	141.49	79.66	127.44	120.46	159.00	102.00	72.00	15.00	103.32	169.00	15.00	169.00
1965	143.14	121.73	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	103.32	169.00	15.00	169.00
1966	38.00	66.31	136.00	161.87	218.56	110.92	86.31	124.27	124.74	159.00	216.40	106.45	38.00	129.07	218.56	23.00	227.00
1967	110.46	97.81	136.00	119.00	200.81	214.44	119.46	143.30	132.28	172.08	227.00	212.12	97.81	157.06	227.00	27.53	227.00
1968	175.18	157.18	207.47	212.06	227.00	218.38	154.98	164.71	131.72	159.00	143.96	227.00	131.72	181.60	227.00	44.64	227.00
1969	224.96	187.71	180.48	143.42	169.45	47.99	83.42	113.00	74.01	159.00	102.00	72.00	47.99	129.79	224.96	38.00	227.00
1970	64.34	107.82	136.00	149.40	195.25	66.76	83.72	118.74	126.17	159.00	102.00	72.00	15.00	115.10	195.25	38.00	227.00
1971	38.00	63.75	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	88.73	169.00	15.00	169.00
1972	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1973	38.00	24.53	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1974	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1975	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1976	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1977	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1978	188.94	153.84	207.12	226.99	227.00	136.61	93.97	135.41	127.20	159.00	128.85	174.07	93.97	163.25	227.00	59.67	227.00
1979	182.46	223.20	172.34	170.61	227.00	223.23	131.75	137.98	126.29	159.00	115.61	103.33	103.33	164.40	227.00	42.35	227.00
1980	122.90	107.45	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	100.45	169.00	15.00	169.00
1981	62.22	104.84	148.08	202.05	227.00	176.34	97.45	131.10	128.30	159.00	102.00	72.00	62.22	134.20	227.00	38.00	227.00
1982	64.24	99.03	136.00	119.00	169.00	148.76	96.65	144.80	127.00	181.77	221.43	200.91	64.24	142.38	221.43	38.00	227.00
1983	180.66	150.36	136.39	123.65	216.78	120.45	86.07	122.72	124.42	159.00	102.00	72.00	72.00	132.87	216.78	38.00	227.00
1984	66.24	97.50	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	94.90	169.00	15.00	169.00
1985	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	94.90	169.00	15.00	169.00
1986	38.00	77.47	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	38.00	109.06	169.00	23.00	213.16
1987	143.69	111.38	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	102.51	169.00	15.00	227.00
1988	38.00	23.00	136.00	137.77	227.00	151.04	82.75	126.55	125.69	159.00	159.89	190.10	23.00	129.73	227.00	23.00	227.00
1989	192.11	134.36	142.48	127.77	169.00	40.23	86.57	113.00	116.63	170.59	213.49	224.83	40.23	144.25	224.83	38.00	227.00
1990	225.21	165.94	196.49	227.00	227.00	172.44	103.51	131.50	123.81	159.00	164.23	204.17	103.51	175.03	227.00	83.08	227.00
Min.	38.00	23.00	72.58	102.57	160.25	38.00	15.00	113.00	52.00	70.55	63.12	71.64	15.00	74.96	160.25	38.00	227.00
Avg.	102.34	94.02	143.09	137.26	188.55	96.73	63.12	121.92	90.80	157.79	124.42	114.04	45.33	119.51	197.15	15.00	169.00
Max.	227.00	223.20	207.47	227.00	227.00	223.23	154.98	164.71	132.28	181.77	227.00	227.00	131.72	181.60	227.00	227.00	227.00
Daily																	
Min.	38.00	23.00	10.79	47.81	63.82	38.00	15.00	113.00	52.00	7.52	20.88	65.63				7.52	227.00
Max.	227.00	227.00	227.00	227.00	227.00	227.00	209.05	200.76	151.51	227.00	227.00	227.00					227.00

Table D-28 LGF Power Simulation Results (Irrigation Oriented, 2020 Abstraction) (Unit: MW)

	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Daily Min.	Daily Max.
1957	141.36	139.96	137.52	133.47	135.80	126.68	123.89	140.52	116.58	135.24	132.02	133.24	116.58	133.02	141.36	61.97	142.03
1958	140.09	139.96	134.97	126.51	128.34	127.11	141.39	141.49	140.38	136.84	133.34	132.99	126.51	135.29	141.49	61.89	142.03
1959	140.03	139.96	134.73	125.39	117.17	62.05	18.72	122.55	79.39	110.75	97.29	107.55	18.72	104.63	140.03	18.07	141.99
1960	62.78	35.04	120.81	116.36	111.23	58.47	17.28	113.01	74.28	98.11	84.76	88.70	17.28	81.74	120.81	16.61	127.10
1961	55.29	31.15	101.08	87.76	82.99	49.08	14.66	94.20	63.76	82.90	136.34	142.03	14.66	78.44	142.03	13.62	142.03
1962	142.01	140.12	138.28	138.06	141.43	137.89	141.47	140.38	140.38	137.39	136.14	130.86	130.86	138.53	142.01	70.01	142.03
1963	69.90	125.51	135.16	131.18	141.79	142.03	138.70	141.49	140.38	137.06	134.97	139.10	69.90	131.44	142.03	39.33	142.03
1964	141.36	139.96	138.22	139.08	142.03	141.20	138.70	141.48	140.38	137.13	135.22	135.21	135.21	139.17	142.03	106.17	142.03
1965	141.36	139.96	137.92	133.70	128.57	65.87	20.60	134.31	85.94	124.41	120.84	127.03	20.60	113.38	141.36	19.84	142.03
1966	68.99	100.16	135.93	137.08	141.57	131.81	142.03	141.43	140.38	137.49	141.38	141.42	68.99	129.97	142.03	38.84	142.03
1967	141.36	139.96	135.23	128.22	137.63	142.03	136.89	141.48	140.38	138.85	141.60	142.03	138.22	138.80	142.03	50.31	142.03
1968	141.36	139.96	136.43	139.53	142.03	142.03	139.92	141.49	140.38	138.01	140.01	142.03	138.01	140.43	142.03	76.91	142.03
1969	141.60	139.96	138.38	138.64	139.99	85.18	140.34	140.91	118.92	135.58	131.32	131.27	85.18	131.84	141.60	61.89	142.03
1970	91.21	138.69	135.53	137.14	140.70	100.05	139.06	141.35	140.38	137.63	135.38	130.31	91.21	130.62	141.35	61.85	142.03
1971	69.51	104.97	134.69	127.32	124.95	65.21	20.48	134.48	86.68	126.66	117.11	118.15	20.48	102.52	134.69	19.64	140.14
1972	64.74	36.25	126.52	116.01	103.51	59.78	17.11	113.17	74.54	99.06	100.71	115.16	17.11	85.30	126.52	16.30	132.13
1973	65.64	40.99	135.75	128.68	119.28	62.74	19.29	127.97	82.83	119.33	111.44	112.50	19.29	93.87	135.75	18.53	139.16
1974	62.28	34.71	120.99	118.89	117.50	61.62	18.89	129.29	84.14	122.35	116.72	119.76	18.89	92.26	129.29	17.96	130.60
1975	65.53	36.75	128.48	121.47	121.99	64.59	20.11	132.71	85.56	123.86	116.09	118.78	20.11	94.66	132.71	19.33	135.11
1976	64.56	35.89	124.04	107.55	86.30	47.60	14.28	92.23	62.75	42.82	67.93	74.50	14.28	68.37	124.04	4.01	130.50
1977	48.13	26.62	51.55	75.45	85.47	60.82	20.22	136.88	107.06	137.19	138.99	142.03	20.22	85.87	142.03	6.95	142.03
1978	141.36	139.96	138.78	140.92	142.03	140.34	140.21	141.48	140.38	138.05	140.18	142.02	138.05	140.48	142.03	111.03	142.03
1979	141.36	140.42	138.36	138.78	141.65	142.03	139.37	141.49	140.38	137.60	139.14	141.42	137.60	140.17	142.03	71.80	142.03
1980	141.36	139.96	135.66	129.12	121.52	63.66	19.61	129.25	83.22	119.91	120.93	129.63	19.61	111.15	141.36	18.83	142.03
1981	93.05	139.96	137.72	139.85	142.03	142.02	142.03	141.47	140.38	137.39	135.38	132.41	93.05	135.31	142.03	68.45	142.03
1982	99.82	139.96	135.48	131.86	134.93	124.99	142.03	141.48	140.38	138.81	140.74	142.02	99.82	134.38	142.03	61.89	142.03
1983	141.36	139.96	138.13	137.11	141.25	138.13	141.83	141.41	140.38	137.13	135.29	131.92	131.92	138.66	141.83	62.38	142.03
1984	100.11	139.96	135.76	128.15	116.78	60.22	17.93	117.19	76.45	105.97	106.74	117.33	17.93	101.88	139.96	17.27	141.22
1985	65.74	37.90	135.65	135.63	140.62	132.80	142.03	141.08	122.44	134.80	129.25	128.75	37.90	120.56	142.03	36.77	142.03
1986	69.60	121.18	135.24	129.00	133.45	84.20	142.03	141.42	140.38	136.22	133.72	139.54	69.60	125.50	142.03	39.24	142.03
1987	141.36	139.96	135.86	131.19	122.76	64.25	20.33	134.85	87.99	129.31	121.04	122.67	20.33	112.63	141.36	19.41	142.03
1988	66.50	37.60	133.26	133.94	142.03	140.23	141.78	141.45	140.38	138.27	140.31	142.02	37.60	124.81	142.03	36.87	142.03
1989	141.39	139.96	138.31	138.33	138.95	71.71	141.97	141.10	137.25	139.08	140.72	142.03	71.71	134.23	142.03	61.87	142.03
1990	141.89	140.01	139.04	141.72	142.03	142.02	142.03	141.48	140.38	138.17	140.32	142.02	138.17	140.93	142.03	136.93	142.03
Min.	48.13	26.62	51.55	75.45	82.99	47.60	14.28	92.23	62.75	42.82	67.93	74.50	14.28	68.37	120.81		
Avg.	104.24	105.98	131.22	128.33	127.95	99.35	89.81	133.50	113.99	126.16	126.78	128.78	67.81	117.97	139.12		
Max.	142.01	140.42	139.04	141.72	142.03	142.03	142.03	141.49	140.38	139.08	141.60	142.03	138.17	140.93	142.03		
Daily Min.	46.17	26.15	6.95	60.02	72.74	45.75	13.17	85.28	61.97	4.01	20.61	73.97				4.01	
Daily Max.	142.03	141.56	139.62	142.03	142.03	142.03	142.03	142.03	140.91	139.75	142.03	142.03					142.03



Table D-29 LGF Energy Simulation Results (Irrigation Oriented, 2020 Abstraction)

(Unit: GWh/y)

	Daily												Ann. Tot.	Avg.	Max.	Min.	Daily			
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.						Max.	Min.	Max.
1987	65.98	53.29	61.07	49.06	72.14	56.10	30.76	49.73	34.01	66.71	40.12	33.04	612.01	30.76	51.00	72.14	0.50	3.41		
1988	54.67	37.86	60.23	47.22	69.05	73.41	54.00	58.20	50.25	67.34	40.41	32.98	645.62	32.98	53.80	73.41	0.50	3.41		
1989	52.17	35.83	60.15	46.92	64.56	14.89	4.64	44.80	19.05	60.44	31.96	26.84	462.25	4.64	38.52	64.56	0.14	2.25		
1990	15.57	7.85	55.65	44.50	62.11	14.03	4.29	42.24	17.83	57.31	28.77	22.47	372.62	4.29	31.05	62.11	0.13	2.09		
1991	13.71	6.98	49.01	36.25	51.10	11.78	3.63	36.94	15.30	51.36	82.98	105.67	464.71	3.63	38.73	105.67	0.11	3.41		
1992	105.65	73.75	62.19	51.99	104.95	62.33	36.77	57.01	51.67	67.56	41.00	32.45	747.32	32.45	62.28	105.65	0.56	3.41		
1993	17.33	30.84	60.29	48.46	103.56	92.09	46.73	58.48	51.57	67.43	40.76	62.33	679.87	17.33	56.66	103.56	0.31	3.41		
1994	86.91	61.28	61.33	78.22	105.67	61.94	35.76	58.09	51.96	67.46	40.80	40.22	749.64	35.76	62.47	105.67	0.55	3.41		
1995	65.14	48.80	61.21	49.12	69.12	15.81	5.11	47.83	20.63	62.60	37.63	31.50	514.50	5.11	42.88	69.12	0.16	2.41		
1996	17.11	25.24	60.54	69.74	101.00	48.62	37.66	56.33	54.24	67.61	97.01	47.11	682.21	17.11	56.85	101.00	0.31	3.41		
1997	48.72	37.95	60.31	47.67	89.89	96.22	53.79	65.48	58.21	74.95	101.95	98.36	833.50	37.95	69.46	101.95	0.40	3.41		
1998	78.89	62.18	93.44	93.14	105.67	98.11	70.10	73.28	57.96	67.81	62.05	105.67	968.30	57.96	80.69	105.67	0.62	3.41		
1999	104.37	76.18	79.87	61.90	74.52	20.60	36.54	49.90	31.20	66.84	39.97	32.55	674.44	20.60	56.20	104.37	0.50	3.41		
2000	29.29	42.69	60.41	64.10	88.30	28.20	36.75	53.25	55.00	67.65	40.84	32.32	598.80	28.20	49.90	88.30	0.49	3.22		
2001	17.24	24.60	60.13	47.43	67.67	15.65	5.08	47.88	20.80	63.44	36.78	29.61	436.01	5.08	36.33	67.67	0.16	2.22		
2002	16.05	8.12	57.48	44.39	58.92	13.63	4.24	42.29	17.89	57.68	32.80	28.61	382.10	4.24	31.84	58.92	0.13	2.01		
2003	16.28	9.18	60.48	47.79	65.40	15.06	4.78	46.21	19.88	61.30	35.43	27.99	409.78	4.78	34.15	65.40	0.15	2.20		
2004	16.25	7.77	55.71	45.19	64.69	14.79	4.68	46.55	20.19	61.84	36.68	29.70	403.24	4.68	33.60	64.69	0.14	2.15		
2005	16.25	8.23	58.11	45.88	66.50	15.50	4.99	47.43	20.53	62.40	36.53	19.16	411.81	4.99	34.32	66.50	0.15	2.19		
2006	16.01	8.04	56.69	42.01	50.20	11.42	3.54	36.37	15.06	21.39	16.82	19.16	296.71	3.54	24.72	56.69	0.03	1.90		
2007	11.94	5.96	21.24	27.88	51.23	14.60	5.01	48.49	31.48	67.48	61.12	98.59	445.02	5.01	37.08	98.59	0.06	3.41		
2008	86.27	62.44	93.91	101.46	105.67	60.14	40.87	62.31	55.55	67.82	54.90	79.29	870.63	40.87	72.55	105.67	0.57	3.41		
2009	82.94	92.66	75.64	73.12	105.39	100.59	59.59	63.88	55.06	67.64	48.72	45.79	871.02	45.79	72.58	105.39	0.57	3.41		
2010	55.38	42.06	60.46	47.91	66.31	15.28	4.86	46.54	19.97	61.23	37.64	32.15	489.79	4.86	40.82	66.31	0.15	2.20		
2011	27.99	40.95	66.24	89.41	105.67	78.28	42.22	60.14	56.14	67.56	40.84	32.84	708.28	27.99	59.02	105.67	0.56	3.41		
2012	28.28	37.99	60.40	48.64	71.77	65.88	42.00	64.86	55.41	80.05	98.83	93.10	747.21	28.28	62.27	98.83	0.50	3.41		
2013	81.78	60.86	61.48	52.28	99.95	52.24	37.59	55.48	54.06	67.46	40.82	32.72	696.72	32.72	58.06	99.95	0.50	3.41		
2014	29.18	37.30	60.49	47.65	64.38	14.45	4.45	43.38	18.35	60.12	34.28	29.12	443.15	4.45	36.93	64.38	0.14	2.18		
2015	16.30	8.49	60.45	49.66	74.69	41.79	38.57	49.97	30.50	66.54	39.52	31.93	508.41	8.49	42.37	74.69	0.29	2.43		
2016	17.26	29.76	60.32	47.88	71.14	21.67	38.89	54.84	50.75	67.09	40.49	58.72	558.81	17.26	46.57	71.14	0.31	3.22		
2017	65.35	44.02	60.52	48.46	66.80	15.42	5.04	47.97	21.12	64.42	37.68	30.42	507.22	5.04	42.27	66.80	0.16	3.40		
2018	16.49	8.42	59.66	58.03	105.67	66.62	36.65	57.61	54.75	67.91	69.71	87.26	688.78	8.42	57.40	105.67	0.29	3.41		
2019	88.04	54.87	64.19	54.43	73.63	17.27	37.69	49.97	50.36	74.38	95.07	104.66	764.56	17.27	63.71	104.66	0.49	3.41		
2020	104.65	67.49	88.94	102.04	105.67	76.45	45.29	60.14	53.76	67.87	71.88	94.30	938.48	45.29	78.21	105.67	1.18	3.41		
2021	11.94	5.96	21.24	27.88	50.20	11.42	3.54	36.37	15.06	21.39	16.82	19.16	296.71	3.54	24.72	56.69	0.03	3.41		
2022	46.02	37.06	62.60	56.17	79.50	41.79	27.14	52.47	37.96	64.37	49.79	50.55	605.40	19.05	50.45	85.78	0.50	3.41		
2023	105.65	92.66	93.91	102.04	105.67	100.59	70.10	73.28	58.21	80.05	101.95	105.67	968.30	57.96	80.69	105.67	0.50	3.41		
Daily																				
Min.	0.37	0.21	0.06	0.48	0.58	0.37	0.11	1.11	0.50	0.03	0.16	0.59					0.03			
AVG.	3.41	3.40	3.35	3.41	3.41	3.41	3.15	3.01	2.26	3.34	3.41	3.41								
Max.																				

**ANNEX-D4**

**HIGH GRAND FALLS DAM**

Table D-30 HGF Ave. Reservoir Water Level Simulation Results (Power Oriented, 1995 Abstraction)

(Unit:EL.m)

Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Daily Min.	Daily Max.
	1957	549.44	548.27	547.10	546.81	548.78	550.00	549.99	549.55	548.62	547.68	547.66	549.07	546.81	548.58	550.00	546.50
1958	549.43	548.27	547.10	546.60	548.46	550.00	550.00	549.55	548.62	547.68	547.63	548.85	546.60	548.52	550.00	546.50	550.00
1959	549.39	548.27	547.10	546.51	547.06	547.60	547.72	547.75	547.85	547.67	547.39	548.41	546.51	547.73	549.39	546.48	549.77
1960	549.01	548.27	547.10	547.04	547.94	548.11	548.05	547.94	547.74	547.50	547.55	548.07	547.04	547.86	549.01	546.50	549.09
1961	548.27	548.12	547.10	546.81	547.92	548.54	548.56	548.45	548.38	548.34	550.00	550.00	546.81	548.37	550.00	546.49	550.00
1962	550.00	549.50	548.18	547.42	549.55	550.00	550.00	549.55	548.62	547.68	547.72	548.12	547.42	548.86	550.00	546.50	550.00
1963	548.31	548.21	547.10	547.08	549.91	550.00	550.00	549.55	548.62	547.68	547.78	549.61	547.08	548.65	550.00	546.50	550.00
1964	549.90	548.93	547.40	547.73	550.00	550.00	550.00	549.55	548.62	547.68	547.74	549.02	547.40	548.88	550.00	546.50	549.97
1965	549.47	548.27	547.10	546.88	547.77	548.31	548.41	548.42	548.33	547.68	548.14	549.54	546.88	548.19	549.54	546.50	550.00
1966	549.43	548.27	547.11	547.37	549.75	550.00	550.00	549.55	548.62	547.68	549.27	550.00	547.11	548.92	550.00	546.51	550.00
1967	549.44	548.27	547.10	546.74	549.17	550.00	550.00	549.55	548.62	547.68	548.54	549.27	547.69	549.04	550.00	547.31	550.00
1968	549.57	548.40	547.78	548.40	550.00	550.00	550.00	549.55	548.62	547.68	547.64	548.75	547.64	548.98	550.00	547.20	550.00
1969	549.95	549.42	548.85	548.26	549.08	549.98	550.00	549.55	548.62	547.68	548.69	549.04	547.68	548.56	550.00	546.54	550.00
1970	549.19	548.27	547.10	546.72	549.17	550.00	550.00	549.17	548.62	547.68	547.79	548.75	546.72	548.00	549.17	546.48	549.28
1971	548.12	548.03	547.10	546.82	547.87	548.55	548.90	549.17	548.62	547.68	547.39	548.75	546.52	547.65	549.95	546.50	550.00
1972	548.01	547.99	547.10	546.52	546.82	547.32	547.49	547.53	547.39	547.34	548.36	549.95	546.95	548.25	549.47	546.50	550.00
1973	549.47	548.27	547.10	546.95	548.01	548.67	548.89	549.00	548.62	547.68	547.93	548.72	547.11	548.25	549.46	546.52	549.73
1974	548.04	548.08	547.11	547.14	548.40	548.77	549.06	549.46	548.62	547.68	547.54	548.72	547.11	548.25	549.46	546.50	549.43
1975	549.01	548.27	547.10	546.84	548.32	549.09	549.28	549.33	548.62	547.68	547.41	547.99	546.84	548.24	549.32	546.50	549.53
1976	548.07	547.95	547.10	546.53	547.06	547.64	547.88	547.95	547.94	547.65	547.38	547.88	546.53	547.59	548.07	546.45	548.12
1977	548.27	548.16	547.11	547.31	549.23	550.00	550.00	549.55	548.62	547.68	548.52	550.00	547.11	548.70	550.00	546.50	550.00
1978	549.72	548.62	547.87	549.52	550.00	550.00	550.00	549.55	548.62	547.71	548.37	549.91	547.71	549.16	550.00	547.41	550.00
1979	549.57	549.36	548.69	548.31	549.96	550.00	550.00	549.55	548.62	547.68	548.43	549.91	547.68	549.17	550.00	547.20	550.00
1980	549.44	548.27	547.10	546.80	547.42	547.93	548.11	548.27	548.45	547.68	548.45	549.98	546.80	548.16	549.98	546.50	550.00
1981	549.44	548.27	547.17	547.80	549.98	550.00	550.00	549.55	548.62	547.69	547.75	548.55	547.17	548.73	550.00	546.77	550.00
1982	548.93	548.27	547.10	547.10	548.98	550.00	550.00	549.55	548.62	547.96	549.08	550.00	547.10	548.80	550.00	546.52	550.00
1983	549.64	548.44	547.11	547.05	549.24	550.00	550.00	549.55	548.62	547.68	547.88	548.56	547.05	548.65	550.00	546.50	550.00
1984	549.01	548.27	547.10	546.55	546.74	546.74	546.65	546.53	546.34	546.48	547.94	548.42	546.34	547.32	549.48	546.22	550.00
1985	549.44	548.27	547.11	547.24	549.17	550.00	550.00	549.55	548.62	547.68	547.80	548.74	547.11	548.59	550.00	546.54	550.00
1986	548.83	548.27	547.10	546.72	548.79	550.00	550.00	549.55	548.62	547.68	547.68	549.74	546.72	548.59	550.00	546.50	550.00
1987	549.44	548.27	547.10	546.92	547.55	548.23	548.71	548.99	548.62	547.68	547.58	548.28	546.92	548.11	549.44	546.50	550.00
1988	548.49	548.25	547.11	547.47	549.97	550.00	550.00	549.55	548.62	547.71	548.53	550.00	547.11	548.81	550.00	546.50	550.00
1989	549.77	548.73	547.27	547.32	549.10	550.00	550.00	549.55	548.62	547.74	548.81	550.00	547.27	548.91	550.00	546.52	550.00
1990	549.99	547.95	548.51	549.84	550.00	550.00	550.00	549.55	548.62	547.74	548.58	550.00	547.74	549.35	550.00	547.50	550.00
Min.	547.10	547.10	547.10	546.51	546.74	546.65	546.53	546.34	546.34	546.48	547.38	547.79	546.34	547.32	548.07		
Avg.	549.16	548.42	547.33	547.28	548.74	549.34	549.10	548.42	548.42	547.67	548.09	549.13	547.04	548.50	549.77		
Max.	550.00	549.50	548.85	549.84	550.00	550.00	549.55	548.62	548.62	548.34	550.00	550.00	547.74	549.35	550.00	546.22	550.00
Daily Min.	547.93	547.71	546.54	546.45	546.53	546.69	546.46	546.24	546.24	546.22	547.19	547.62					
Daily Max.	550.00	549.96	549.20	550.00	550.00	550.00	550.00	549.07	550.00	550.00	550.00	550.00				546.22	550.00

Table D-31 HGF Outflow Simulation Results (Power Oriented, 1995 Abstraction)

(Unit:m<sup>3</sup>/s)

													Daily				
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.
1957	187.06	180.24	167.91	73.41	139.57	197.17	73.27	144.40	160.57	152.01	74.05	70.00	70.00	134.14	197.17	70.00	400.99
1958	155.85	151.66	171.03	73.51	149.71	275.00	139.68	164.65	153.80	153.70	72.89	70.00	70.00	144.29	275.00	70.00	459.60
1959	137.35	143.67	168.74	73.52	70.00	70.00	70.00	70.00	70.00	144.37	72.85	70.00	70.00	96.71	168.74	70.00	200.58
1960	82.72	136.58	143.32	74.21	70.00	70.00	70.00	70.00	70.00	100.85	74.70	70.00	70.00	86.03	143.32	70.00	211.00
1961	70.00	98.51	123.73	72.02	70.00	70.00	70.00	70.00	98.92	217.53	1606.16	777.65	70.00	70.00	1606.16	70.00	2233.16
1962	331.53	211.00	211.00	113.89	348.00	171.18	96.03	163.32	160.63	172.08	74.08	70.00	70.00	176.90	348.00	70.00	683.72
1963	70.00	141.69	173.82	83.12	588.89	230.81	121.64	163.28	159.63	159.41	73.08	118.40	70.00	178.65	588.89	70.00	932.78
1964	236.31	211.00	211.00	198.30	477.10	168.53	92.93	165.43	160.70	164.41	73.50	70.00	70.00	185.77	477.10	70.00	840.41
1965	202.05	195.46	178.69	73.74	70.00	70.00	70.00	70.00	75.87	158.56	73.74	70.00	70.00	109.01	202.05	70.00	211.00
1966	159.06	190.03	187.38	166.24	255.24	145.18	93.63	165.18	161.46	167.78	208.64	106.83	93.63	167.22	255.24	70.00	418.28
1967	154.40	162.81	173.29	73.54	373.24	319.85	139.43	181.11	176.17	194.46	266.38	314.58	73.54	210.77	373.24	70.00	733.81
1968	209.68	211.00	211.00	287.20	541.08	304.06	173.91	201.81	177.01	183.03	163.06	705.73	163.06	280.71	705.73	70.00	1463.41
1969	227.51	211.00	211.00	193.33	100.34	92.85	87.84	149.30	165.60	170.83	73.49	70.00	70.00	146.09	227.51	70.00	310.65
1970	115.94	161.30	152.20	139.28	160.08	161.26	93.54	167.48	163.13	166.62	73.26	70.00	70.00	135.34	167.48	70.00	239.98
1971	70.00	89.56	127.77	72.58	70.00	70.00	70.00	84.08	160.36	162.21	73.21	70.00	70.00	93.31	162.21	70.00	189.41
1972	70.00	88.05	129.77	72.06	70.00	70.00	70.00	70.00	70.00	102.99	77.00	135.39	70.00	85.52	135.39	70.00	294.62
1973	206.67	190.59	174.54	73.61	70.00	70.00	70.00	70.00	131.53	159.49	73.35	70.00	70.00	113.31	206.67	70.00	211.00
1974	70.00	104.59	145.40	75.35	70.00	70.00	70.00	138.74	158.93	162.51	73.05	70.00	70.00	100.71	162.51	70.00	211.00
1975	86.54	150.40	149.03	73.60	70.00	70.00	70.00	91.35	120.11	129.55	72.78	70.00	70.00	96.11	150.40	70.00	211.00
1976	70.00	82.46	132.48	72.19	70.00	70.00	70.00	70.00	70.00	109.73	71.55	70.00	70.00	79.87	132.48	70.00	171.94
1977	70.00	112.20	147.63	105.31	249.70	228.63	107.45	168.52	162.47	161.06	117.18	275.68	70.00	158.82	275.68	70.00	461.79
1978	210.66	211.00	211.00	554.37	523.47	165.85	105.06	174.85	167.43	179.72	95.45	162.09	95.45	230.08	554.37	70.00	1137.78
1979	209.26	211.00	211.00	211.00	492.14	381.79	149.55	173.92	165.29	169.62	82.60	89.06	82.60	212.18	492.14	70.00	921.46
1980	165.56	172.63	176.55	73.81	70.00	70.00	70.00	70.00	115.21	160.97	73.45	70.00	70.00	111.53	176.55	70.00	211.00
1981	177.27	187.33	190.03	200.07	495.17	223.52	105.01	171.79	166.23	173.13	73.45	70.00	70.00	186.08	495.17	70.00	685.71
1982	88.47	159.77	168.26	75.70	152.01	264.65	106.37	185.23	164.92	189.26	190.18	267.94	75.70	167.73	267.94	70.00	532.80
1983	210.43	211.00	184.26	73.59	213.49	163.39	92.84	165.34	162.64	167.15	74.94	70.00	70.00	149.09	213.49	70.00	298.55
1984	92.85	160.58	148.21	73.87	70.00	70.00	70.00	70.00	70.00	70.00	71.21	73.49	70.00	86.68	160.58	70.00	205.04
1985	170.41	165.07	156.75	89.03	184.25	185.87	94.58	166.88	164.14	168.76	73.73	70.00	70.00	140.79	185.87	70.00	395.57
1986	72.75	152.92	147.18	72.26	112.86	231.32	100.63	162.72	160.69	165.15	73.51	130.52	72.26	131.88	231.32	70.00	381.12
1987	185.98	179.66	177.38	73.61	70.00	70.00	70.00	78.80	156.50	155.13	73.00	70.00	70.00	113.34	185.98	70.00	211.00
1988	70.00	137.12	174.60	137.77	590.84	179.85	91.36	166.79	162.34	178.59	104.11	203.59	70.00	183.08	590.84	70.00	999.27
1989	210.29	211.00	211.00	91.09	117.76	150.75	90.79	161.99	184.49	200.10	216.54	319.37	90.79	178.76	319.37	70.00	468.46
1990	291.76	211.00	211.00	522.12	455.20	205.73	111.00	176.05	164.05	182.05	110.66	239.75	110.66	240.03	522.12	70.00	695.12
Min.	70.00	82.46	123.73	72.02	70.00	70.00	70.00	70.00	70.00	70.00	71.21	70.00	70.00	79.87	132.48	70.00	400.99
Avg.	151.13	164.55	172.29	132.01	224.42	159.33	93.43	134.21	141.14	160.38	142.66	155.90	76.70	152.62	334.02	70.00	233.16
Max.	331.53	211.00	211.00	554.37	590.84	381.79	173.91	201.81	177.01	217.53	1606.16	777.65	163.06	280.71	1606.16	70.00	2233.16
Daily																	
Min.	70.00	70.00	103.85	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
Max.	568.43	211.00	211.00	1137.78	999.27	653.42	223.56	211.00	206.54	814.17	2233.16	1463.41					

Table D-32 HGF Power Outflow Simulation Results (Power Oriented, 1995 Abstraction)

(Unit: m<sup>3</sup>/s)

	Monthly												Daily				
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.
1957	187.06	180.24	167.91	73.41	110.94	170.09	72.98	144.40	150.57	152.01	74.05	70.00	70.00	129.47	187.06	70.00	211.00
1958	155.85	151.66	171.03	73.51	110.94	199.89	136.01	164.65	153.80	153.70	72.89	70.00	70.00	134.49	199.89	70.00	211.00
1959	137.35	143.67	168.74	73.52	70.00	70.00	70.00	70.00	70.00	144.37	72.85	70.00	70.00	96.71	168.74	70.00	200.58
1960	82.72	136.58	143.32	74.21	70.00	70.00	70.00	70.00	96.92	100.85	74.70	70.00	70.00	86.03	143.32	70.00	211.00
1961	70.00	98.51	123.73	72.02	70.00	70.00	70.00	70.00	96.92	182.28	211.00	211.00	70.00	112.12	211.00	70.00	211.00
1962	211.00	211.00	113.89	113.89	201.67	162.42	94.28	163.22	160.63	172.08	74.08	70.00	70.00	153.77	211.00	70.00	211.00
1963	70.00	141.69	173.82	83.12	211.00	205.07	120.56	163.11	159.63	159.41	73.08	112.46	70.00	139.41	211.00	70.00	211.00
1964	211.00	211.00	211.00	143.28	211.00	162.86	91.21	165.32	160.70	164.41	73.50	70.00	70.00	156.27	211.00	70.00	211.00
1965	202.05	195.46	178.69	73.74	70.00	70.00	70.00	70.00	75.87	158.56	73.74	70.00	70.00	109.01	202.05	70.00	211.00
1966	159.06	190.03	187.38	166.24	209.83	141.20	92.97	165.18	161.46	167.78	208.64	105.77	92.97	162.96	209.83	70.00	211.00
1967	154.40	162.81	173.29	73.54	160.97	208.27	135.68	181.11	176.17	194.46	211.00	205.58	73.54	169.77	211.00	70.00	211.00
1968	209.38	211.00	211.00	211.00	211.00	210.90	171.36	201.81	177.01	183.03	113.20	211.00	113.20	193.48	211.00	70.00	211.00
1969	211.00	211.00	211.00	193.33	100.34	91.80	86.95	149.30	165.60	170.83	73.49	70.00	70.00	144.55	211.00	70.00	211.00
1970	115.94	161.30	152.20	139.28	160.08	156.74	91.50	167.45	163.13	166.62	73.26	70.00	70.00	194.79	167.45	70.00	211.00
1971	70.00	89.56	127.77	72.58	70.00	70.00	70.00	84.08	160.36	162.21	73.21	70.00	70.00	93.31	162.21	70.00	189.41
1972	70.00	89.05	129.77	72.06	70.00	70.00	70.00	70.00	70.00	102.99	77.00	127.61	70.00	84.87	129.77	70.00	211.00
1973	205.85	190.59	174.54	73.61	70.00	70.00	70.00	70.00	131.53	159.49	73.35	70.00	70.00	113.25	205.85	70.00	211.00
1974	70.00	104.59	145.40	75.35	70.00	70.00	70.00	138.74	158.93	162.51	73.05	70.00	70.00	100.71	162.51	70.00	211.00
1975	86.54	150.40	149.03	73.60	70.00	70.00	70.00	91.35	120.11	129.55	72.78	70.00	70.00	96.11	150.40	70.00	211.00
1976	70.00	82.46	132.48	72.19	70.00	70.00	70.00	70.00	70.00	109.73	71.55	70.00	70.00	79.87	132.48	70.00	171.94
1977	70.00	112.20	147.63	105.31	200.28	192.29	103.88	168.52	162.47	161.06	117.18	209.28	70.00	145.84	209.28	70.00	211.00
1978	210.66	211.00	211.00	211.00	211.00	161.44	101.89	174.85	167.43	179.72	95.45	151.21	95.45	173.89	211.00	70.00	211.00
1979	209.26	211.00	211.00	211.00	211.00	211.00	145.49	173.55	165.29	169.62	82.60	88.43	82.60	174.10	211.00	70.00	211.00
1980	165.46	172.63	176.55	73.81	70.00	70.00	70.00	70.00	115.21	160.97	73.07	119.94	70.00	111.47	176.55	70.00	211.00
1981	177.27	187.33	190.03	200.07	211.00	185.99	104.82	171.79	166.23	173.13	73.45	70.00	70.00	159.26	211.00	70.00	211.00
1982	88.47	159.77	168.26	75.70	113.45	197.61	106.08	184.51	164.92	189.26	190.18	199.68	75.70	153.16	199.68	70.00	211.00
1983	210.43	211.00	184.26	73.59	205.76	157.65	91.91	165.23	162.64	167.15	74.94	70.00	70.00	147.88	211.00	70.00	211.00
1984	92.85	160.58	148.21	73.87	70.00	70.00	70.00	70.00	70.00	70.00	71.21	73.48	70.00	86.68	160.58	70.00	205.04
1985	170.41	165.07	156.75	89.03	156.42	169.04	92.87	166.88	164.14	168.76	73.73	70.00	70.00	136.93	170.41	70.00	211.00
1986	72.75	152.92	147.18	72.26	103.36	191.18	99.52	162.72	160.69	165.15	73.51	127.34	72.26	127.38	191.18	70.00	211.00
1987	185.98	179.66	177.38	73.61	70.00	70.00	70.00	78.80	156.50	155.13	73.00	70.00	70.00	113.34	185.98	70.00	211.00
1988	70.00	137.12	174.60	137.77	211.00	168.19	90.62	166.75	162.34	178.59	104.11	183.97	70.00	148.76	211.00	70.00	211.00
1989	210.17	211.00	211.00	91.09	117.76	146.21	89.31	161.99	164.49	200.10	199.50	211.00	89.31	167.80	211.00	70.00	211.00
1990	211.00	211.00	211.00	211.00	211.00	185.51	109.90	176.05	164.05	182.05	110.66	192.43	109.90	181.90	211.00	70.00	211.00
1991	70.00	82.46	123.73	72.02	70.00	70.00	70.00	70.00	70.00	70.00	71.21	70.00	70.00	79.87	123.73	70.00	211.00
1992	143.94	164.55	172.29	108.90	133.82	134.86	92.35	134.16	141.14	159.34	98.03	111.48	75.14	132.91	190.27	70.00	211.00
1993	211.00	211.00	211.00	211.00	211.00	211.00	171.38	201.81	177.01	200.10	211.00	211.00	113.20	193.48	211.00	70.00	211.00
Daily	70.00	70.00	103.85	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	211.00
Min.	211.00	211.00	211.00	211.00	211.00	211.00	211.00	211.00	211.00	211.00	211.00	211.00	211.00	211.00	211.00	211.00	211.00
Max.	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	211.00

Table D-33 HGF Power Simulation Results (Power Oriented, 1995 Abstraction)

(Unit: MW)

	Daily														
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.
1957	202.97	201.12	199.27	198.04	201.36	203.85	203.26	203.09	201.67	200.18	199.38	201.58	198.04	201.31	203.85
1958	202.87	201.12	199.27	197.71	200.85	203.85	203.85	203.14	201.67	200.18	199.34	201.23	197.71	201.26	203.85
1959	202.74	201.12	199.27	197.55	198.41	199.26	199.45	199.50	199.65	200.10	198.95	200.55	197.55	199.71	202.74
1960	201.65	201.12	199.27	198.40	198.80	200.27	199.95	199.79	199.48	199.37	199.21	200.01	198.40	199.85	201.65
1961	200.33	200.45	199.27	198.04	199.76	200.74	200.78	200.61	200.81	201.23	203.85	203.85	198.04	200.81	203.85
1962	203.85	203.07	200.98	199.25	203.15	203.85	203.77	203.15	201.67	200.18	199.47	200.09	199.25	201.87	203.85
1963	200.38	200.76	199.27	198.52	203.72	203.85	203.82	203.15	201.67	200.18	199.58	202.75	198.52	201.47	203.85
1964	203.70	202.16	199.27	199.92	203.85	203.85	203.85	203.15	201.67	200.18	199.50	201.50	199.50	201.92	203.85
1965	203.00	201.12	199.27	198.14	199.32	200.38	200.55	200.56	200.55	200.19	200.14	202.32	198.14	200.48	203.00
1966	202.85	201.12	199.28	199.50	203.47	203.85	203.85	203.15	201.67	200.20	202.70	203.85	199.28	202.12	203.85
1967	202.96	201.12	199.27	197.33	202.25	203.85	203.85	203.12	201.67	200.38	202.38	203.85	197.33	201.89	203.85
1968	203.18	201.32	200.34	201.32	203.85	203.85	203.85	203.15	201.67	200.20	201.01	203.85	200.20	202.30	203.85
1969	203.78	202.94	202.03	201.02	202.19	203.61	203.85	203.15	201.67	200.18	199.35	201.07	199.35	202.07	203.85
1970	202.16	201.12	199.27	199.53	202.53	203.85	203.79	203.15	201.67	200.18	199.43	199.96	199.27	201.39	203.85
1971	200.09	200.19	199.27	197.88	199.69	200.77	201.32	201.89	201.67	200.18	198.95	199.57	197.88	200.12	201.89
1972	199.91	200.10	199.27	197.57	198.02	198.92	199.08	199.15	198.93	199.11	200.53	203.54	197.57	199.50	203.85
1973	203.02	201.12	199.27	198.26	200.00	200.96	201.30	201.47	201.67	200.18	199.19	199.80	198.26	200.52	203.02
1974	199.96	200.39	199.27	198.59	200.52	201.12	201.57	202.31	201.67	200.19	199.80	201.04	198.59	200.57	203.43
1975	201.66	201.12	199.27	197.58	198.40	199.33	199.70	199.82	199.81	199.96	198.94	199.70	197.58	199.37	200.00
1976	200.00	199.98	199.27	199.33	202.64	203.82	203.82	203.15	201.67	200.18	201.14	203.85	199.27	201.65	203.85
1977	200.31	200.31	199.27	199.33	202.64	203.82	203.82	203.15	201.67	200.23	200.63	203.48	200.23	202.45	203.85
1978	203.41	201.67	200.49	203.10	203.85	203.85	203.85	203.15	201.67	200.18	200.65	203.38	200.18	202.46	203.85
1979	203.18	202.85	201.78	201.18	203.78	203.85	203.85	203.15	201.67	200.18	200.64	203.73	198.01	200.51	203.73
1980	202.96	201.12	199.27	198.01	198.98	199.78	200.06	200.32	201.03	200.18	199.52	200.76	199.37	201.72	203.85
1981	202.96	201.12	199.27	198.55	201.73	203.85	203.85	203.15	201.67	200.19	199.83	202.38	198.55	201.80	203.85
1982	201.55	201.12	199.27	198.42	202.66	203.85	203.85	203.15	201.67	200.63	202.38	203.83	198.55	201.80	203.85
1983	203.28	201.39	199.27	198.42	202.66	203.85	203.85	203.15	201.67	200.18	199.76	200.78	198.55	201.80	203.85
1984	201.69	201.12	199.27	197.62	197.89	197.89	197.75	197.56	197.26	197.48	199.83	202.31	197.26	198.97	202.31
1985	202.96	201.12	199.27	198.97	202.47	203.85	203.85	203.15	201.67	200.19	199.31	200.56	198.97	201.45	203.85
1986	201.25	201.12	199.27	197.89	201.40	203.85	203.85	203.15	201.67	200.18	199.60	203.11	197.89	201.36	203.85
1987	202.97	201.12	199.27	198.20	199.17	200.25	201.02	201.55	201.67	200.18	199.25	200.33	198.20	200.42	202.97
1988	200.66	200.95	199.27	199.55	203.81	203.85	203.85	203.15	201.67	200.23	201.06	203.85	199.27	201.83	203.85
1989	203.49	201.84	199.54	199.11	202.43	203.79	203.85	203.15	201.67	200.28	201.97	203.85	199.11	202.08	203.85
1990	203.84	202.84	201.50	203.59	203.85	203.85	203.85	203.15	201.67	200.28	201.16	203.80	200.28	202.78	203.85
1991	199.91	199.98	199.27	197.55	197.89	197.89	197.75	197.56	197.26	197.48	198.94	199.57	197.26	198.97	200.00
1992	202.22	201.25	199.63	199.02	201.48	202.40	202.49	202.16	201.20	200.10	200.22	201.99	198.65	201.18	203.37
1993	203.85	203.07	202.03	203.59	203.85	203.85	203.85	203.15	201.67	201.23	203.85	203.85	200.23	202.78	203.85
Daily															
Min.	199.78	199.80	198.36	197.43	197.56	197.82	197.67	197.44	197.08	197.05	198.62	199.30	197.05		203.85
Max.	203.85	203.79	202.59	203.85	203.85	203.85	203.85	203.85	202.39	203.85	203.85	203.85			

Table D-34 HGF Energy Simulation Results (Power Oriented, 1995 Abstraction)

(Unit: GWh/y)

	Monthly												Ann. Tot.	Daily		
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.		Min.	Avg.	Max.
1957	134.47	115.76	117.33	49.82	79.27	117.91	51.81	102.52	101.74	105.29	50.63	49.99	1076.54	49.82	89.71	134.47
1958	111.22	95.43	119.63	49.81	79.15	138.98	97.23	117.59	104.34	106.81	49.75	49.91	1119.90	49.75	93.32	138.98
1959	97.55	91.15	118.20	49.78	49.20	47.82	49.46	47.92	47.92	106.81	49.63	49.74	800.14	47.82	66.68	118.20
1960	59.08	87.73	100.37	50.49	49.55	48.02	49.60	49.55	47.88	71.02	51.00	49.60	713.89	47.88	59.49	100.37
1961	49.68	62.98	86.94	48.90	49.54	48.18	49.79	49.75	66.32	129.16	146.78	151.67	939.69	48.18	78.31	151.67
1962	151.67	136.46	149.53	77.61	144.45	112.54	65.46	116.32	109.93	121.16	50.67	49.62	1285.37	49.62	107.11	151.67
1963	49.69	90.77	121.88	56.61	151.56	142.81	85.43	116.32	109.93	111.42	49.95	80.86	1166.23	49.69	97.19	151.56
1964	151.55	135.85	148.61	98.05	151.67	113.21	62.35	118.02	109.73	115.27	50.25	49.97	1304.53	49.97	108.71	151.67
1965	144.52	126.04	125.62	50.09	49.48	48.09	49.74	49.74	52.01	111.41	50.58	50.17	907.49	48.09	75.62	144.52
1966	113.60	122.42	131.79	113.27	150.54	97.70	63.60	118.05	110.31	117.70	144.31	74.20	1357.49	63.60	113.13	150.54
1967	109.29	103.50	121.46	49.89	115.35	144.91	97.94	130.42	121.31	137.48	145.71	147.93	1424.59	49.89	118.72	147.93
1968	149.98	135.29	149.05	144.95	151.67	146.72	123.07	145.20	122.00	129.10	77.97	151.67	1626.67	77.97	135.56	151.67
1969	151.61	136.38	150.31	132.63	70.30	62.27	58.38	106.12	113.42	120.10	50.21	49.87	1201.60	49.87	100.13	151.61
1970	82.68	102.56	105.78	94.45	113.67	108.83	63.36	119.81	111.57	116.95	50.05	49.59	1119.30	49.59	93.28	119.81
1971	49.62	57.28	89.96	49.15	49.52	48.18	49.37	49.39	47.74	72.47	52.81	91.34	706.75	47.74	58.90	91.34
1972	49.58	56.97	91.43	48.82	49.11	47.72	49.32	49.96	89.99	111.37	50.06	49.55	941.37	48.18	64.69	113.57
1973	147.47	122.77	122.43	50.02	49.60	48.23	49.92	99.14	108.39	113.57	49.58	49.86	837.64	48.23	78.45	147.47
1974	49.59	66.32	101.60	51.20	49.73	48.27	49.99	99.14	108.39	113.57	49.58	49.86	837.64	48.23	78.45	147.47
1975	61.40	94.72	104.39	49.97	49.70	49.39	50.08	65.41	82.56	91.20	49.58	49.86	796.97	48.39	66.41	104.39
1976	49.60	52.55	93.16	48.91	49.20	47.84	49.53	49.56	47.95	77.21	48.78	49.52	663.81	47.84	55.32	93.16
1977	49.68	71.76	102.20	71.23	143.28	133.81	72.72	120.63	111.05	112.65	80.35	150.40	1219.76	49.68	101.65	150.40
1978	151.13	135.53	149.17	146.23	151.67	112.27	71.02	125.51	114.81	126.47	65.49	108.71	1458.01	65.49	121.50	151.67
1979	149.89	136.32	150.12	144.85	151.62	146.78	104.26	124.56	113.19	119.22	56.79	62.38	1459.98	56.79	121.66	151.62
1980	117.99	110.27	123.97	50.10	49.35	47.95	49.62	49.68	78.59	112.46	50.20	85.47	925.65	47.95	77.14	123.97
1981	127.11	120.64	133.53	136.73	151.64	129.13	73.37	123.18	113.90	121.56	50.22	49.79	1330.80	49.79	110.90	151.64
1982	62.81	101.38	117.53	51.23	81.12	137.57	73.76	132.10	112.88	133.63	131.19	143.50	1278.70	51.23	106.56	143.50
1983	150.88	135.33	129.61	50.04	49.08	109.42	62.57	118.15	111.20	117.29	51.17	49.79	1232.50	49.79	102.71	150.88
1984	66.11	101.98	105.04	50.05	49.08	109.42	49.04	48.99	47.34	48.97	48.72	52.52	713.09	47.34	59.43	102.80
1985	121.89	105.04	108.95	60.33	111.08	117.26	63.66	119.42	112.33	118.47	50.37	49.74	1138.54	49.74	94.88	121.89
1986	51.64	96.71	102.13	49.03	73.71	132.90	68.84	116.13	109.71	115.71	50.28	91.35	1058.14	49.03	88.18	132.90
1987	133.58	115.18	124.56	50.01	49.40	48.06	49.85	56.09	106.44	108.00	49.81	49.68	940.66	48.06	78.39	133.58
1988	49.76	86.72	122.45	93.74	151.64	116.81	61.78	119.29	110.96	125.71	71.42	132.12	1242.40	49.76	103.53	151.64
1989	150.84	135.64	148.46	61.65	82.97	101.25	60.52	115.60	112.59	141.30	137.31	151.67	1399.80	60.52	116.65	151.67
1990	151.65	136.31	149.92	146.59	151.67	128.80	77.64	126.43	112.25	128.10	75.82	138.41	1523.59	75.82	126.97	151.67
1991	49.58	52.55	86.34	48.82	49.08	47.49	49.04	48.99	47.34	48.97	48.72	49.49	663.81	47.34	53.32	91.43
Avg.	102.91	105.34	121.03	74.30	95.52	93.41	64.83	95.84	96.49	111.82	67.29	79.70	1108.47	52.10	92.37	135.24
Max.	151.67	136.46	150.31	146.59	151.67	146.78	123.07	145.20	122.00	141.30	146.78	151.67	1626.67	77.97	133.56	151.67
Daily																
Min.	1.60	1.60	2.29	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.59	1.59	1.58	1.58	4.89
Max.	4.89	4.89	4.86	4.89	4.89	4.89	4.89	4.89	4.77	4.89	4.89	4.89	4.89	4.89	4.89	4.89

Table D-35 HGF Ave. Reservoir Water Level Simulation Results (Flood Oriented, 1995 Abstraction)

(Unit: EL.m)

	Daily															
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	
1957	549.44	548.27	547.10	544.21	546.10	549.72	549.99	549.55	548.62	547.68	545.68	546.06	546.22	544.21	547.66	549.99
1958	547.37	547.69	547.10	544.00	545.80	549.85	550.00	549.55	548.62	547.68	545.68	545.02	545.98	544.00	547.39	550.00
1959	547.06	547.29	547.05	543.90	544.88	544.88	544.88	544.92	545.03	545.50	543.32	544.10	543.32	543.32	545.17	547.29
1960	544.74	544.78	544.75	542.83	543.49	543.67	543.63	543.52	543.34	543.20	541.16	541.16	541.44	541.16	543.38	544.78
1961	541.66	541.63	541.50	538.92	539.89	540.58	540.62	540.54	540.59	541.89	548.97	550.00	538.12	538.12	542.22	550.00
1962	550.00	549.50	548.18	545.40	548.79	550.00	550.00	549.55	548.62	547.68	545.12	545.28	545.12	545.12	548.18	550.00
1963	545.47	545.77	546.41	544.49	549.41	550.00	550.00	549.55	548.62	547.68	545.13	546.16	545.91	544.49	547.46	550.00
1964	549.19	548.47	547.11	545.44	549.96	550.00	550.00	549.55	548.62	547.68	545.13	546.16	545.13	545.13	548.11	550.00
1965	547.79	548.23	547.10	544.28	549.92	549.47	548.58	548.59	545.52	545.72	544.45	545.60	544.28	544.28	545.86	548.23
1966	546.20	547.00	547.09	545.38	549.39	550.00	550.00	549.55	548.62	547.69	547.89	549.86	548.22	548.22	550.00	550.00
1967	549.44	548.27	547.10	544.14	547.56	550.00	550.00	549.55	548.62	547.69	547.73	550.00	544.14	544.14	548.35	550.00
1968	549.57	548.40	547.78	547.04	550.00	550.00	550.00	549.55	548.62	547.68	545.03	545.89	546.20	546.20	548.73	550.00
1969	549.95	549.42	548.85	546.85	548.67	549.91	550.00	549.55	548.62	547.68	545.03	545.89	545.03	545.03	548.37	550.00
1970	546.54	547.06	547.02	545.22	548.52	549.99	550.00	549.55	548.62	547.68	545.08	545.19	545.08	545.08	547.54	550.00
1971	545.27	545.24	545.13	542.64	543.55	544.24	544.60	544.91	545.43	546.14	544.04	544.20	542.64	542.64	544.61	546.14
1972	544.43	544.46	544.42	541.73	541.79	542.31	542.48	542.54	542.42	542.49	541.48	543.41	541.48	541.48	542.83	544.46
1973	544.83	545.89	546.60	544.35	545.21	545.83	546.05	546.17	546.28	546.78	544.84	544.99	544.35	544.35	545.65	546.78
1974	545.09	545.28	545.39	543.58	544.59	544.98	545.28	546.14	546.92	547.42	545.31	545.86	543.58	543.58	545.49	547.42
1975	546.19	546.41	546.54	544.23	545.47	546.24	546.45	546.58	546.64	547.64	544.23	545.87	544.23	544.23	545.87	546.65
1976	544.75	544.67	544.61	541.95	542.24	542.84	543.09	543.18	543.18	543.19	540.74	540.99	540.74	540.74	542.95	544.75
1977	541.40	541.50	541.66	540.12	543.53	548.00	549.54	549.53	548.62	547.68	546.11	549.44	546.11	546.11	545.59	549.54
1978	549.72	548.62	547.87	548.65	550.00	550.00	550.00	549.55	548.62	547.68	545.91	547.33	546.11	545.91	548.75	550.00
1979	549.38	549.26	548.58	546.78	549.75	550.00	550.00	549.55	548.62	547.68	545.03	545.85	544.20	544.20	546.08	548.17
1980	547.99	548.17	547.10	544.20	544.57	545.09	545.27	545.44	545.85	546.50	545.14	545.69	545.14	545.14	548.02	550.00
1981	548.11	548.25	547.17	546.25	549.77	550.00	550.00	549.55	548.62	547.68	545.96	549.66	549.87	544.53	547.82	550.00
1982	546.13	546.54	546.80	544.53	546.37	549.88	550.00	549.55	548.62	547.68	545.30	545.73	544.45	544.45	547.84	550.00
1983	549.64	548.44	547.11	544.45	547.63	549.99	550.00	549.55	548.62	547.68	545.68	545.49	544.53	544.53	548.81	550.00
1984	546.24	546.65	546.82	543.95	543.89	543.89	543.81	543.70	543.53	543.68	542.50	543.80	542.50	542.50	544.37	546.94
1985	544.78	545.33	545.67	544.14	546.61	549.85	550.00	549.55	548.62	547.68	545.01	545.57	544.14	544.14	546.90	550.00
1986	545.98	546.18	546.42	544.08	546.01	549.52	550.00	549.55	548.62	547.68	545.19	547.26	544.08	544.08	547.21	550.00
1987	548.78	548.27	547.10	544.31	544.69	545.38	545.88	546.17	546.75	547.29	544.96	545.41	546.25	546.25	548.78	549.08
1988	545.63	545.88	546.24	545.17	549.79	550.00	550.00	549.55	548.62	547.71	546.16	548.86	545.17	545.17	547.80	550.00
1989	549.77	548.73	547.27	544.83	547.06	549.19	549.94	549.55	548.62	547.74	547.33	550.00	544.83	544.83	548.34	550.00
1990	549.99	549.35	548.51	549.15	550.00	550.00	550.00	549.55	548.62	547.74	546.50	549.03	546.50	546.50	549.04	550.00
Min.	541.40	541.50	541.50	538.82	539.89	540.58	540.62	540.54	540.59	541.89	540.74	540.99	538.82	538.82	542.22	544.46
Avg.	547.01	546.91	546.51	544.44	546.45	547.68	547.85	547.65	547.13	546.72	545.16	546.47	543.98	543.98	546.67	548.82
Max.	550.00	549.50	548.85	549.15	550.00	550.00	550.00	549.55	548.62	547.96	548.97	550.00	546.50	546.50	549.04	550.00
Daily																
Min.	541.25	541.49	541.42	538.11	539.16	540.45	540.59	540.49	540.48	540.78	540.36	540.73	538.11	538.11	545.42	550.00
Max.	550.00	549.96	549.20	550.00	550.00	550.00	550.00	550.00	549.07	548.28	550.00	550.00	546.50	546.50	549.04	550.00



Table D-36 HGF Outflow Simulation Results (Flood Oriented, 1995 Abstraction)

(Unit: m<sup>3</sup>/s)

	Monthly												Daily				
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.
1957	187.06	180.24	167.91	236.00	70.00	107.32	73.27	144.40	160.57	152.01	236.00	70.00	70.00	147.90	236.00	70.00	1146.00
1958	70.00	74.43	171.03	236.00	70.00	195.70	139.63	164.65	153.80	153.70	236.00	70.00	70.00	144.58	236.00	70.00	1146.00
1959	70.00	70.00	146.01	236.00	70.00	70.00	70.00	70.00	70.00	70.00	236.00	70.00	70.00	104.00	236.00	70.00	1146.00
1960	70.00	70.00	70.00	236.00	70.00	70.00	70.00	70.00	70.00	70.00	236.00	70.00	70.00	97.67	236.00	70.00	2091.06
1961	70.00	70.00	70.00	236.00	70.00	70.00	70.00	70.00	70.00	70.00	1340.66	777.65	70.00	248.69	1340.66	70.00	1146.00
1962	331.53	211.00	211.00	236.00	230.25	171.18	96.03	163.32	160.63	172.08	236.00	70.00	70.00	190.75	331.53	70.00	1146.00
1963	70.00	70.00	83.51	236.00	441.41	290.81	121.64	163.28	159.63	159.41	236.00	70.00	70.00	175.14	441.41	70.00	1146.00
1964	152.79	211.00	192.32	250.10	421.22	168.53	92.93	165.43	160.70	164.41	236.00	70.00	70.00	190.45	421.22	70.00	1146.00
1965	70.00	168.65	178.69	236.00	70.00	70.00	70.00	70.00	70.00	70.00	236.00	70.00	70.00	114.94	236.00	70.00	1146.00
1966	70.00	70.00	169.88	236.00	188.09	145.18	93.63	165.18	161.46	167.78	236.00	70.00	70.00	148.65	236.00	70.00	1146.00
1967	154.40	162.81	173.29	236.00	216.65	319.85	139.43	181.11	176.17	194.46	266.58	314.58	139.43	211.28	319.85	70.00	1463.41
1968	209.68	211.00	211.00	287.42	541.08	304.06	173.91	201.81	177.01	183.03	236.00	635.50	173.91	280.96	635.50	70.00	1146.00
1969	227.51	211.00	211.00	236.00	70.00	81.83	87.94	149.30	165.60	170.83	236.00	70.00	70.00	159.74	236.00	70.00	1146.00
1970	70.00	70.00	124.65	236.00	70.00	158.06	93.54	167.48	163.13	166.62	236.00	70.00	70.00	135.46	236.00	70.00	1146.00
1971	70.00	70.00	70.00	236.00	70.00	70.00	70.00	70.00	70.00	70.00	236.00	70.00	70.00	97.67	236.00	70.00	1146.00
1972	70.00	70.00	70.00	236.00	70.00	70.00	70.00	70.00	70.00	70.00	236.00	70.00	70.00	99.87	236.00	70.00	1146.00
1973	70.00	70.00	96.47	236.00	70.00	70.00	70.00	70.00	70.00	70.00	236.00	70.00	70.00	101.08	236.00	70.00	1146.00
1974	70.00	70.00	70.00	236.00	70.00	70.00	70.00	70.00	70.00	110.93	236.00	70.00	70.00	98.67	236.00	70.00	1146.00
1975	70.00	70.00	82.01	236.00	70.00	70.00	70.00	70.00	70.00	70.00	236.00	70.00	70.00	97.67	236.00	70.00	1146.00
1976	70.00	70.00	70.00	236.00	70.00	70.00	70.00	70.00	70.00	70.00	236.00	70.00	70.00	127.75	236.00	70.00	1146.00
1977	70.00	70.00	70.00	236.00	70.00	70.00	70.00	156.29	162.47	161.06	236.00	161.12	70.00	234.13	554.51	70.00	1146.00
1978	210.66	211.00	211.00	554.51	523.47	165.85	105.06	174.85	167.43	179.72	236.00	70.00	70.00	219.91	443.89	70.00	1146.00
1979	171.91	211.00	211.00	254.98	443.89	381.79	149.55	173.92	165.29	169.62	236.00	70.00	70.00	112.06	236.00	70.00	1146.00
1980	70.00	136.19	176.55	236.00	70.00	70.00	70.00	70.00	70.00	70.00	236.00	70.00	70.00	189.18	442.48	70.00	1146.00
1981	70.00	167.22	190.03	254.80	442.48	223.52	105.01	171.79	166.23	173.13	236.00	70.00	70.00	154.46	236.00	70.00	1146.00
1982	70.00	70.00	111.97	236.00	70.00	189.90	149.91	92.84	165.34	162.64	236.00	223.82	70.00	162.96	236.00	70.00	1146.00
1983	210.43	211.00	184.26	236.00	70.00	70.00	70.00	70.00	70.00	70.00	236.00	70.00	70.00	100.04	236.00	70.00	1146.00
1984	70.00	70.00	98.43	236.00	70.00	123.07	94.58	166.88	164.14	168.76	236.00	70.00	70.00	128.29	236.00	70.00	1146.00
1985	70.00	70.00	70.00	236.00	70.00	112.11	100.63	162.72	160.69	165.15	236.00	70.00	70.00	126.94	236.00	70.00	1146.00
1986	70.00	70.00	177.38	236.00	70.00	70.00	70.00	70.00	70.00	93.10	236.00	70.00	70.00	119.35	236.00	70.00	1146.00
1987	90.06	179.66	79.14	236.00	496.16	179.85	91.36	166.79	162.34	178.59	236.00	70.00	70.00	170.22	496.16	70.00	1146.00
1988	210.29	211.00	211.00	236.00	70.00	70.00	77.24	161.99	164.49	200.10	236.00	300.75	70.00	179.07	300.75	70.00	1146.00
1989	291.76	211.00	211.00	522.23	455.20	205.73	111.00	176.05	164.05	182.05	236.00	118.88	111.00	240.41	522.23	70.00	1146.00
1990	70.00	70.00	70.00	236.00	70.00	70.00	70.00	70.00	70.00	70.00	236.00	70.00	70.00	97.67	236.00	70.00	1146.00
Min.	117.30	124.36	138.55	256.82	176.76	138.95	91.93	130.52	127.75	135.09	269.39	130.57	76.30	163.16	336.53	70.00	2091.06
Avg.	331.53	211.00	211.00	554.51	541.08	381.79	173.91	201.81	177.01	200.10	1340.66	777.65	173.91	280.96	1340.66	70.00	2091.06
Max.	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
Daily Min.	568.43	211.00	211.00	1146.00	981.01	653.42	223.56	211.00	206.54	211.00	2091.06	1463.41	70.00	70.00	70.00	70.00	2091.06
Daily Max.	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00

Table D-37 HGF Power Outflow Simulation Results (Flood Oriented, 1995 Abstraction)

(Unit:m<sup>3</sup>/s)

	Monthly												Daily				
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.
1957	187.06	180.24	167.91	102.69	70.00	107.15	72.98	144.40	150.57	152.01	102.80	70.00	70.00	125.65	187.06	70.00	211.00
1958	70.00	74.43	171.03	102.68	70.00	166.99	136.01	164.65	153.80	153.70	102.80	70.00	70.00	119.67	171.03	70.00	211.00
1959	70.00	70.00	146.01	102.68	70.00	70.00	70.00	70.00	70.00	70.00	102.53	70.00	70.00	81.77	146.01	70.00	211.00
1960	70.00	70.00	70.00	102.34	70.00	70.00	70.00	70.00	70.00	70.00	101.99	70.00	70.00	75.36	102.34	70.00	209.94
1961	70.00	70.00	70.00	101.45	70.00	70.00	70.00	70.00	70.00	208.71	211.00	211.00	70.00	95.93	211.00	70.00	211.00
1962	211.00	211.00	211.00	102.83	155.61	162.42	94.28	163.22	160.63	172.08	102.81	70.00	70.00	151.41	211.00	70.00	211.00
1963	70.00	70.00	83.51	102.69	188.26	205.07	120.56	163.11	159.63	159.41	102.80	70.00	70.00	124.59	205.07	70.00	211.00
1964	152.79	211.00	192.32	116.80	211.00	162.86	91.21	165.32	160.70	164.41	102.81	70.00	70.00	150.10	211.00	70.00	211.00
1965	70.00	168.65	178.69	102.69	70.00	70.00	70.00	70.00	70.00	70.00	102.65	70.00	70.00	92.72	178.69	70.00	211.00
1966	70.00	70.00	169.88	102.72	187.08	141.20	92.97	165.18	161.46	167.78	102.90	80.53	70.00	125.97	187.08	70.00	211.00
1967	154.40	162.81	173.29	102.69	120.03	208.27	135.68	181.11	176.17	194.46	117.00	205.58	102.69	160.96	208.27	70.00	211.00
1968	209.38	211.00	211.00	135.78	211.00	210.90	171.38	201.81	177.01	183.03	102.84	197.35	102.84	185.21	211.00	70.00	211.00
1969	211.00	211.00	211.00	102.90	70.00	80.85	86.95	149.30	165.60	170.83	102.80	70.00	70.00	136.02	211.00	70.00	211.00
1970	70.00	70.00	124.65	102.72	70.00	153.55	91.50	167.45	163.13	166.62	102.81	70.00	70.00	112.70	167.45	70.00	211.00
1971	70.00	70.00	70.00	102.35	70.00	70.00	70.00	70.00	70.00	70.00	102.69	70.00	70.00	75.42	102.69	70.00	211.00
1972	70.00	70.00	70.00	102.19	70.00	70.00	70.00	70.00	70.00	70.00	101.91	70.00	70.00	75.34	102.19	70.00	209.36
1973	70.00	70.00	96.47	102.69	70.00	70.00	70.00	70.00	70.00	70.00	102.79	70.00	70.00	77.66	102.79	70.00	211.00
1974	70.00	70.00	70.00	102.50	70.00	70.00	70.00	70.00	70.00	110.93	102.80	70.00	70.00	78.85	110.93	70.00	211.00
1975	70.00	70.00	82.01	102.68	70.00	70.00	70.00	70.00	70.00	70.00	102.71	70.00	70.00	76.45	102.71	70.00	211.00
1976	70.00	70.00	70.00	102.23	70.00	70.00	70.00	70.00	70.00	70.00	101.91	70.00	70.00	75.34	102.23	70.00	209.57
1977	70.00	70.00	70.00	101.58	70.00	70.00	70.00	156.29	162.47	161.06	102.83	135.23	70.00	103.29	162.47	70.00	211.00
1978	210.66	211.00	211.00	206.30	211.00	161.44	101.89	174.85	167.43	179.72	102.88	70.00	70.00	167.35	211.00	70.00	211.00
1979	171.91	211.00	211.00	121.88	211.00	211.00	145.49	173.55	165.29	169.62	102.81	70.00	70.00	163.71	211.00	70.00	211.00
1980	70.00	136.19	176.55	102.69	70.00	70.00	70.00	70.00	70.00	70.00	102.78	70.00	70.00	89.85	176.55	70.00	211.00
1981	70.00	167.22	190.03	121.58	211.00	185.99	104.82	171.79	166.23	173.13	102.80	70.00	70.00	144.55	211.00	70.00	211.00
1982	70.00	70.00	111.97	102.70	70.00	167.00	106.08	184.51	164.92	189.26	102.90	178.41	70.00	126.48	189.26	70.00	211.00
1983	210.43	211.00	184.26	102.69	70.00	148.25	91.91	165.23	162.64	167.15	102.83	70.00	70.00	140.53	211.00	70.00	211.00
1984	70.00	70.00	98.43	102.68	70.00	70.00	70.00	70.00	70.00	70.00	102.23	70.00	70.00	77.78	102.68	70.00	211.00
1985	70.00	70.00	70.00	102.59	70.00	122.68	92.87	166.88	164.14	168.76	102.81	70.00	70.00	105.89	168.76	70.00	211.00
1986	70.00	70.00	70.00	102.67	70.00	111.82	99.52	162.72	160.69	165.15	102.81	70.00	70.00	104.61	165.15	70.00	211.00
1987	90.06	179.66	177.38	102.69	70.00	70.00	70.00	70.00	70.00	93.10	102.80	70.00	70.00	97.14	179.66	70.00	211.00
1988	70.00	70.00	79.14	102.70	201.90	168.19	90.62	166.75	162.34	178.59	102.85	75.47	70.00	122.36	201.90	70.00	211.00
1989	210.17	211.00	211.00	102.71	70.00	70.00	76.81	161.99	164.49	200.10	102.90	206.45	70.00	143.97	211.00	70.00	211.00
1990	211.00	211.00	211.00	211.00	211.00	189.51	109.90	176.05	164.05	182.05	102.88	103.32	102.88	173.23	211.00	70.00	211.00
Min.	70.00	70.00	70.00	101.45	70.00	70.00	70.00	70.00	70.00	70.00	101.91	70.00	70.00	75.34	102.19	70.00	211.00
Avg.	110.88	124.36	138.55	111.32	109.67	120.92	90.98	130.48	127.75	135.09	106.24	92.45	72.89	116.56	171.88	70.00	211.00
Max.	211.00	211.00	211.00	211.00	211.00	211.00	171.36	201.81	177.01	200.10	208.71	211.00	102.88	185.21	211.00	70.00	211.00
Daily Min.	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
Daily Max.	211.00	211.00	211.00	211.00	211.00	211.00	211.00	211.00	206.54	211.00	211.00	211.00	211.00	211.00	211.00	70.00	211.00

Table D-38 HGF Power Simulation Results (Flood Oriented, 1995 Abstraction)

(Unit: MW)

													Daily					
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.	
1957	202.85	201.01	199.15	192.99	196.66	202.95	203.15	202.98	201.56	200.07	195.02	196.93	192.99	199.61	203.15	191.90	203.74	
1958	198.78	199.34	199.15	192.48	196.05	203.32	203.74	203.03	201.56	200.07	194.93	196.54	192.48	199.08	203.74	191.65	203.74	
1959	198.29	198.65	198.89	192.24	192.94	194.28	194.59	194.69	194.93	195.73	190.84	192.68	190.84	194.90	198.89	189.79	199.63	
1960	194.24	194.36	194.27	189.64	191.18	191.62	191.51	191.26	190.81	190.45	185.35	186.14	185.35	190.90	194.36	184.06	194.70	
1961	186.69	186.62	186.29	178.43	181.52	183.58	183.71	183.46	183.62	187.11	202.09	203.74	178.43	187.24	203.74	176.28	203.74	
1962	203.74	202.96	200.87	195.68	201.51	203.74	203.66	203.03	201.56	200.07	195.16	195.36	195.16	200.61	203.74	194.01	203.74	
1963	195.68	196.19	197.36	193.64	202.69	203.74	203.71	203.03	201.56	200.07	195.20	196.05	193.64	199.24	203.74	192.01	203.74	
1964	202.15	201.33	199.17	195.51	203.68	203.74	203.74	203.03	201.56	200.07	193.17	196.84	193.17	200.50	203.74	192.35	203.74	
1965	193.45	200.81	199.15	198.17	194.62	195.68	195.87	195.89	195.77	196.11	193.61	195.91	193.17	196.34	200.81	191.79	201.58	
1966	196.90	198.20	199.03	195.45	202.65	203.74	203.74	203.03	201.56	200.08	199.78	203.08	195.45	200.60	203.74	192.57	203.74	
1967	202.85	201.01	199.15	192.82	199.24	203.74	203.74	203.03	201.56	200.27	199.62	203.74	192.82	200.90	203.74	191.85	203.74	
1968	203.06	201.21	200.23	198.59	203.74	203.74	203.74	203.03	201.56	200.09	197.02	203.58	197.02	201.63	203.74	194.91	203.74	
1969	203.66	202.83	201.92	198.14	200.84	203.74	203.74	203.03	201.56	200.07	194.95	196.39	194.95	200.86	203.74	193.83	203.74	
1970	197.47	198.30	198.74	195.20	200.61	203.71	203.69	203.03	201.56	200.07	195.09	195.21	195.09	199.39	203.71	192.68	203.74	
1971	195.35	195.30	195.11	189.16	191.32	193.02	193.91	194.66	195.62	196.80	192.60	192.93	189.16	193.81	196.80	187.87	197.61	
1972	193.49	193.57	193.47	186.92	187.00	188.27	188.71	188.85	188.56	188.72	186.20	190.98	186.20	189.56	193.57	183.67	193.58	
1973	194.40	196.39	197.76	193.35	195.23	196.29	196.65	196.85	197.05	197.85	194.51	194.86	193.35	195.93	197.85	191.98	198.67	
1974	195.06	195.36	195.55	191.49	193.89	194.83	195.36	196.80	198.08	199.19	195.50	196.34	191.49	195.62	199.19	189.82	199.93	
1975	196.88	197.26	197.58	193.06	196.67	196.97	197.31	197.53	197.65	197.62	193.31	194.07	193.06	196.24	197.65	191.66	198.44	
1976	194.28	194.07	193.92	187.48	188.11	189.57	190.18	190.40	190.42	190.45	184.10	184.83	184.10	189.82	194.28	183.02	194.32	
1977	186.03	186.30	186.67	182.30	191.14	199.79	202.22	202.90	201.56	200.07	196.86	202.44	182.30	194.86	202.90	178.62	203.74	
1978	203.30	201.56	200.38	198.15	203.74	203.74	203.71	203.03	201.56	200.12	196.92	199.99	196.92	201.64	203.74	195.47	203.74	
1979	202.55	202.57	201.49	198.15	203.34	203.74	203.74	203.03	201.56	200.07	195.51	198.72	196.51	201.29	203.74	194.15	203.74	
1980	199.77	200.56	199.15	192.97	193.83	195.04	195.36	195.64	196.33	197.39	195.77	198.62	192.97	196.70	200.56	192.02	201.24	
1981	199.95	200.86	199.25	197.12	203.38	203.74	203.74	203.03	201.56	200.08	195.18	196.06	195.18	200.33	203.74	193.83	203.74	
1982	196.78	197.46	198.20	193.79	197.15	203.39	203.74	203.04	201.55	200.52	199.42	203.36	193.79	199.87	203.74	192.28	203.74	
1983	203.17	201.28	199.16	193.57	199.18	203.68	203.74	203.03	201.56	200.07	195.53	196.12	193.57	200.01	203.74	192.02	203.74	
1984	196.97	197.64	198.20	192.36	192.16	192.17	191.97	191.70	191.27	191.64	188.82	191.94	188.82	193.07	198.20	187.13	198.86	
1985	194.35	195.45	196.01	192.85	197.54	203.27	203.74	203.03	201.56	200.07	194.92	195.86	192.85	198.22	203.74	190.71	203.74	
1986	196.54	196.87	197.28	192.69	196.51	202.56	203.74	203.03	201.56	200.07	195.25	198.60	192.69	198.73	203.74	191.48	203.74	
1987	201.17	201.01	199.15	193.26	194.14	195.53	196.37	196.85	197.80	198.90	194.80	195.59	193.26	197.05	201.17	192.29	202.27	
1988	195.95	196.37	197.05	195.03	203.36	203.74	203.74	203.03	201.56	200.12	196.96	201.19	195.03	199.84	203.74	192.37	203.74	
1989	203.38	201.73	199.43	194.47	198.28	201.67	203.21	203.03	201.56	200.16	198.89	203.71	194.47	200.79	203.71	192.61	203.74	
1990	203.72	202.72	201.39	202.40	203.74	203.74	203.74	203.03	201.56	200.16	197.56	201.62	197.56	202.12	203.74	195.79	203.74	
Min.	186.03	186.30	186.29	178.43	181.52	183.58	183.71	183.46	183.62	187.11	184.10	184.83	178.43	187.24	193.57	187.13	198.86	
Avg.	198.20	198.15	197.64	193.18	196.96	199.28	199.62	199.36	198.55	197.95	194.81	197.12	192.23	197.57	201.59	191.48	203.74	
Max.	203.74	202.96	201.92	202.40	203.74	203.74	203.74	203.04	201.56	200.52	202.09	203.74	197.56	202.12	203.74	192.02	203.74	
Daily																		
Min.	185.62	186.26	186.09	176.28	179.33	183.20	183.64	183.31	183.28	184.21	183.02	184.05	176.28					203.74
Max.	203.74	203.68	202.48	203.74	203.74	203.74	203.74	203.74	202.28	201.02	203.74	203.74					203.74	

Table D-39 HGF Energy Simulation Results (Flood Oriented, 1995 Abstraction)

(Unit: GWh/y)

	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Ann. Tot.	Min.	Avg.	Max.	Daily Min.	Max.
1957	134.42	115.73	117.31	68.16	48.77	73.88	51.78	102.49	101.72	105.26	68.79	48.84	48.84	48.77	86.43	134.42	1.54	4.89
1958	49.30	47.38	119.60	63.04	48.63	115.98	97.25	117.57	104.92	106.78	68.76	48.74	997.35	47.38	82.70	119.60	1.54	4.89
1959	49.18	44.50	102.09	67.98	47.89	46.64	48.26	48.29	46.78	48.54	67.47	47.83	665.45	44.50	55.45	102.09	1.52	4.74
1960	48.19	43.55	48.19	66.98	47.49	46.06	47.57	47.51	45.98	47.33	65.51	46.36	600.72	43.55	50.06	66.98	1.48	4.66
1961	46.48	41.97	46.39	63.33	45.31	44.30	45.81	45.75	44.31	46.58	143.86	45.58	765.67	41.97	63.81	151.58	1.42	4.89
1962	151.58	136.39	149.45	68.99	111.29	112.51	65.44	116.49	109.66	121.13	68.83	48.45	1260.21	48.45	105.02	151.58	1.55	4.89
1963	48.53	43.95	58.33	68.31	134.93	142.74	85.40	116.29	108.91	111.39	68.83	48.82	1036.73	43.95	86.39	142.74	1.54	4.89
1964	109.11	135.29	135.35	78.43	151.54	113.17	62.33	118.00	109.71	115.25	68.83	48.82	1245.83	48.82	103.82	151.54	1.54	4.89
1965	49.46	108.35	125.59	68.20	48.28	46.96	48.58	48.58	46.99	48.64	68.23	48.58	756.44	46.96	63.04	125.59	1.54	4.84
1966	48.83	44.40	119.35	68.76	133.99	97.67	63.58	118.03	110.29	117.67	70.15	56.38	1049.10	44.40	87.42	133.99	1.54	4.89
1967	109.27	103.47	121.43	68.12	85.26	144.84	97.31	130.38	121.28	137.43	79.92	147.86	1346.57	68.12	112.21	147.86	1.54	4.89
1968	149.89	135.21	148.97	92.48	151.58	146.64	123.04	145.13	121.98	129.06	69.33	141.76	1555.07	69.33	129.59	151.58	1.56	4.89
1969	151.53	136.30	150.23	69.83	49.81	54.95	58.35	106.09	113.40	120.07	68.77	48.71	1128.04	48.71	94.00	151.53	1.55	4.89
1970	48.97	44.42	86.83	68.69	49.75	106.56	63.94	119.79	111.94	116.93	68.81	48.41	924.04	44.42	77.84	119.79	1.54	4.89
1971	48.45	43.75	48.39	66.88	47.53	46.36	48.11	48.28	46.95	48.81	68.06	47.89	609.46	43.75	50.79	68.06	1.51	4.74
1972	48.01	43.38	48.01	66.20	46.55	45.33	46.94	46.97	45.39	46.94	65.69	47.45	596.86	43.38	49.74	66.20	1.48	4.63
1973	48.23	43.99	67.42	68.24	48.42	47.11	48.77	48.82	47.29	49.07	68.65	48.33	634.34	43.99	52.86	68.65	1.54	4.77
1974	48.37	43.76	48.50	67.58	48.11	46.76	48.45	48.93	47.43	49.01	68.90	48.69	643.27	43.76	53.61	77.80	1.52	4.79
1975	48.83	44.19	57.20	68.16	48.53	47.27	48.45	48.99	47.43	49.01	68.27	48.15	624.96	44.19	52.08	68.27	1.54	4.75
1976	48.20	43.49	48.11	66.37	46.80	45.61	47.27	47.32	45.80	47.33	65.23	46.06	597.59	43.49	49.80	66.37	1.47	4.64
1977	46.34	41.91	46.48	64.37	47.49	47.95	50.15	111.87	111.02	112.63	69.25	96.95	846.41	41.91	70.53	112.63	1.44	4.89
1978	151.05	135.45	149.08	141.97	151.58	112.23	71.00	125.48	114.79	126.42	69.37	49.60	1398.02	49.60	116.50	151.58	1.56	4.89
1979	122.91	136.12	149.91	82.67	151.29	146.69	104.23	124.53	113.17	119.19	69.15	49.28	1369.14	49.28	114.10	151.29	1.55	4.89
1980	49.54	86.95	123.94	68.16	48.09	46.81	48.45	48.52	47.12	48.95	68.91	49.26	734.70	46.81	61.23	123.94	1.54	4.82
1981	49.59	107.40	133.48	82.11	151.32	129.08	73.35	123.15	113.88	121.52	68.83	48.62	1202.33	48.62	100.19	151.32	1.55	4.89
1982	48.80	44.23	78.33	68.35	48.89	116.20	73.74	132.05	112.86	133.57	70.16	128.21	1055.39	44.23	87.95	133.57	1.54	4.89
1983	150.80	135.26	129.58	68.29	49.40	102.84	62.54	118.12	111.17	117.26	68.94	48.64	1162.84	48.64	96.90	150.80	1.54	4.89
1984	48.85	44.27	68.62	68.01	47.72	46.18	47.67	47.61	45.98	47.60	66.66	47.67	626.84	44.27	52.24	68.62	1.50	4.74
1985	48.21	43.78	48.61	67.99	48.99	84.80	63.64	119.39	112.31	118.44	68.77	48.57	873.50	43.78	72.79	119.39	1.53	4.89
1986	48.74	44.10	48.92	68.06	48.74	77.40	68.81	116.10	109.69	115.68	68.85	49.25	864.34	44.10	72.03	116.10	1.53	4.79
1987	64.10	115.15	124.53	68.22	48.16	46.93	48.70	48.82	47.47	65.13	68.73	48.51	794.45	46.93	66.20	124.53	1.54	4.82
1988	48.60	43.99	55.19	68.64	144.90	116.76	61.75	119.27	110.94	125.67	69.32	53.76	1018.79	43.99	84.90	144.90	1.54	4.89
1989	150.75	135.56	148.37	68.51	49.17	48.40	53.27	115.58	112.56	141.23	69.90	148.32	1241.62	48.40	103.47	150.75	1.54	4.89
1990	151.57	136.23	149.83	145.73	151.58	128.74	77.61	126.40	112.23	128.06	69.55	73.95	1451.48	69.55	120.96	151.58	1.57	4.89
Min.	46.34	41.91	46.39	63.33	45.31	44.30	45.81	45.75	44.31	46.58	65.23	46.06	596.86	41.91	49.74	66.20		
Avg.	76.37	79.23	97.11	74.14	77.29	83.01	63.28	92.54	86.83	94.48	71.10	64.96	962.34	47.71	80.20	121.10		
Max.	151.58	136.39	150.23	145.73	151.58	146.69	123.04	145.13	121.98	141.23	143.86	151.58	1555.07	69.55	129.59	151.58		
Daily Min.	1.49	1.50	1.50	1.42	1.45	1.47	1.48	1.47	1.47	1.47	1.48	1.47	1.48	1.42				
Max.	4.89	4.89	4.86	4.89	4.89	4.89	4.89	4.89	4.77	4.82	4.89	4.89	4.89	1.42				4.89

Table D-40 HGF Ave. Reservoir Water Level Simulation Results (Irrigation Oriented, 2020 Abstraction) (Unit:EL.m)

	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Daily Min.	Max.
1957	549.44	548.27	547.10	546.24	546.47	548.52	549.73	549.51	548.62	547.36	546.86	547.88	546.24	548.00	549.73	546.01	550.00
1958	549.01	548.27	546.99	545.88	546.03	549.20	550.00	549.55	548.62	547.57	547.01	547.81	545.88	547.99	550.00	545.63	550.00
1959	548.98	548.27	546.97	545.77	544.85	544.61	545.29	545.17	544.75	543.83	542.72	543.39	541.01	545.38	548.98	542.62	549.25
1960	544.25	544.89	544.42	543.91	543.35	542.77	543.39	543.26	542.75	541.76	541.09	541.19	541.01	543.08	544.89	540.97	545.18
1961	541.63	542.20	541.71	540.81	540.45	540.32	541.03	540.91	540.42	539.90	547.29	550.00	539.90	542.22	550.00	539.37	550.00
1962	550.00	549.37	547.82	546.86	548.90	550.00	550.00	549.55	548.62	547.64	547.32	547.25	546.86	548.61	550.00	546.71	550.00
1963	547.62	548.03	547.03	546.43	549.56	550.00	550.00	549.55	548.62	547.59	547.22	548.80	546.43	548.37	550.00	546.17	550.00
1964	549.60	548.47	547.10	547.19	549.98	550.00	550.00	549.55	548.62	547.60	547.25	548.05	547.10	548.62	550.00	546.51	550.00
1965	549.21	548.27	547.10	546.17	545.47	545.24	545.99	545.98	545.56	544.60	544.19	545.21	544.19	546.08	549.21	543.72	549.53
1966	545.86	546.60	546.38	546.68	548.74	549.84	550.00	549.55	548.62	547.65	548.80	549.94	545.86	548.22	550.00	545.50	550.00
1967	549.44	548.27	547.03	546.06	548.17	550.00	550.00	549.55	548.62	547.75	548.82	550.00	546.06	548.64	550.00	545.89	550.00
1968	549.53	548.30	547.50	547.72	550.00	550.00	550.00	549.55	548.62	547.68	548.13	550.00	547.50	548.92	550.00	547.14	550.00
1969	549.93	549.29	548.43	547.69	547.79	548.04	549.06	549.28	548.61	547.39	546.75	547.38	546.75	548.30	549.93	546.61	550.00
1970	548.06	548.26	547.07	547.22	548.55	548.98	549.90	549.55	548.62	547.67	547.22	547.15	547.07	548.19	549.90	546.53	550.00
1971	547.44	547.90	546.94	545.96	545.65	545.57	546.48	546.57	546.29	545.45	544.37	544.42	544.37	546.09	547.90	544.23	548.08
1972	544.86	545.49	545.07	543.90	542.73	542.47	543.31	543.34	542.92	541.97	542.05	543.19	541.97	543.44	545.49	541.29	545.81
1973	544.27	545.43	545.31	544.33	543.28	543.02	543.91	543.90	543.72	542.91	542.05	542.09	542.05	543.69	545.43	541.99	545.91
1974	542.37	543.00	542.74	542.44	542.24	541.86	542.77	543.28	543.14	542.37	541.72	542.04	541.72	542.50	543.28	541.53	548.49
1975	542.55	543.14	542.71	541.89	541.87	541.90	542.79	542.90	542.62	541.72	540.86	541.09	540.86	542.17	543.14	540.71	543.43
1976	541.40	541.93	541.10	539.01	537.45	536.92	537.89	537.84	537.01	534.93	532.86	532.69	532.69	537.59	541.93	532.49	542.21
1977	533.07	533.24	531.85	531.00	531.81	534.20	536.64	537.39	537.97	537.82	538.43	541.64	531.00	535.42	541.64	530.46	542.82
1978	544.10	546.04	547.04	548.86	550.00	550.00	550.00	549.55	548.62	547.69	547.99	549.52	544.10	548.28	550.00	542.89	550.00
1979	549.54	549.11	548.18	547.60	549.46	550.00	550.00	549.55	548.62	547.66	548.02	549.06	547.60	548.90	550.00	547.20	550.00
1980	549.33	548.27	547.08	546.16	545.29	545.05	545.89	545.90	545.56	544.72	544.75	546.20	544.72	546.18	549.33	543.92	549.66
1981	547.17	547.95	547.15	547.59	549.66	550.00	550.00	549.55	548.62	547.84	547.23	547.58	546.51	548.34	550.00	546.61	550.00
1982	548.18	548.25	547.06	546.51	546.83	548.99	550.00	549.55	548.62	547.83	548.68	549.98	546.51	548.37	550.00	546.35	550.00
1983	549.60	548.33	547.10	546.58	547.94	549.40	550.00	549.55	548.62	547.60	547.25	547.50	546.58	548.29	550.00	546.46	550.00
1984	548.21	548.26	547.09	546.06	544.80	544.12	544.74	544.62	544.15	543.39	543.37	544.32	543.37	545.26	548.26	542.90	548.71
1985	545.18	546.24	546.14	546.08	546.94	547.78	549.00	549.29	548.61	547.29	546.49	546.91	545.18	547.16	548.26	544.71	549.60
1986	547.53	548.03	547.03	546.16	546.64	547.78	549.10	549.44	548.62	547.48	547.06	548.87	546.16	547.81	549.44	546.01	549.70
1987	549.42	548.27	547.09	546.27	545.27	545.11	546.23	546.46	546.41	545.60	544.62	544.94	544.62	546.31	549.42	544.49	549.90
1988	545.35	545.98	545.72	545.85	549.66	550.00	550.00	549.55	548.62	547.70	548.13	549.92	548.13	548.04	550.00	545.04	550.00
1989	549.72	548.36	547.10	546.75	546.87	547.16	548.30	548.59	548.50	547.70	548.64	550.00	546.75	548.14	550.00	546.51	550.00
1990	549.98	549.23	548.12	549.58	550.00	550.00	550.00	549.55	548.62	547.68	548.28	549.84	547.68	549.24	550.00	547.38	550.00
Daily	533.07	533.24	531.85	531.00	531.81	534.20	536.64	537.39	537.01	534.93	532.86	532.69	531.00	535.42	541.64		
Avg.	546.82	546.74	545.89	545.96	545.96	546.44	547.10	546.97	546.34	545.39	545.39	546.35	544.23	546.23	548.45		
Max.	550.00	549.37	548.43	549.58	550.00	550.00	550.00	549.55	548.62	547.83	548.82	550.00	547.68	549.24	550.00		
Min.	532.76	533.22	530.65	530.46	531.63	532.21	535.68	537.26	536.60	533.36	532.49	532.51	530.46	530.46	530.46		
Max.	550.00	549.91	548.98	550.00	550.00	550.00	550.00	550.00	549.07	548.13	550.00	550.00	547.68	549.24	550.00		550.00

Table D-41 HGF Outflow Simulation Results (Irrigation Oriented, 2020 Abstraction)

(Unit:m<sup>3</sup>/s)

													Daily				
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.	Min.	Max.
1957	183.79	173.79	160.66	120.55	169.00	38.00	23.66	121.71	130.51	159.00	102.00	72.00	23.66	121.22	183.79	15.00	211.00
1958	80.16	141.93	136.05	119.00	169.00	78.75	121.10	156.57	147.28	159.11	102.00	72.00	72.00	123.56	169.00	38.00	191.66
1959	74.30	137.22	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	98.88	169.00	15.00	169.00
1960	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1961	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	787.10	758.42	15.00	200.63	787.10	15.00	2069.48
1962	317.25	211.00	211.00	131.27	227.91	141.45	81.65	154.17	160.00	159.27	104.37	72.00	72.00	163.45	317.25	67.23	552.35
1963	38.00	74.80	136.01	119.00	444.50	261.33	103.61	156.81	149.80	159.19	102.00	72.00	38.00	151.42	444.50	23.00	770.32
1964	196.64	211.00	176.58	139.29	405.61	139.61	77.29	156.08	160.54	159.22	102.00	72.00	72.00	165.49	405.61	38.00	677.48
1965	117.25	165.34	166.12	120.73	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	107.45	169.00	15.00	211.00
1966	38.00	23.00	136.00	119.00	169.00	70.05	83.05	152.90	154.82	159.56	181.93	87.17	23.00	114.54	181.93	23.00	211.00
1967	148.49	141.75	136.41	119.00	230.68	290.10	120.74	172.65	162.34	185.79	212.37	271.25	119.00	182.63	290.10	80.69	553.44
1968	209.13	205.78	211.00	208.23	499.78	274.10	155.32	193.45	161.88	171.27	134.59	639.17	134.59	255.31	639.17	102.00	1217.85
1969	223.42	211.00	211.00	175.98	169.00	38.00	15.00	113.00	112.62	159.00	102.00	72.00	15.00	133.50	223.42	15.00	294.57
1970	38.00	133.96	138.89	130.58	169.00	38.00	52.23	147.40	156.23	159.74	103.97	72.00	38.00	111.67	169.00	15.00	211.00
1971	38.00	57.69	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	89.22	169.00	15.00	169.00
1972	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1973	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1974	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1975	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1976	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1977	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1978	38.00	23.00	177.13	436.22	497.38	136.76	92.63	164.06	157.25	169.67	118.79	102.36	23.00	176.10	497.38	23.00	945.70
1979	209.05	211.00	211.00	175.39	343.05	352.32	130.80	167.44	156.34	160.28	104.04	72.00	72.00	191.06	352.32	67.18	693.33
1980	123.33	151.14	136.41	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	104.16	169.00	15.00	172.29
1981	38.00	75.79	176.84	173.75	389.53	193.62	94.40	159.74	158.35	159.40	103.77	72.00	38.00	149.61	389.53	23.00	659.63
1982	38.00	122.85	136.20	119.00	169.00	51.01	94.59	173.47	157.17	182.88	153.92	199.21	58.00	133.11	199.21	23.00	274.91
1983	209.93	204.16	169.77	120.75	169.00	38.08	83.15	151.33	154.53	159.35	102.00	72.00	38.08	136.17	209.93	38.00	211.00
1984	38.00	125.42	136.71	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	94.93	169.00	15.00	170.82
1985	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	109.54	159.00	102.00	72.00	15.00	100.32	169.00	15.00	169.00
1986	38.00	74.28	136.00	119.00	169.00	38.00	15.00	113.00	133.58	147.94	159.00	72.00	15.00	100.32	169.00	15.00	169.00
1987	163.64	155.19	142.74	120.67	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	108.52	169.00	15.00	211.00
1988	38.00	23.00	136.00	119.00	405.55	151.62	79.95	155.22	155.67	173.99	105.89	165.70	23.00	142.47	405.55	23.00	729.28
1989	210.15	199.82	180.65	121.25	169.00	38.00	15.00	113.00	113.35	191.30	177.03	287.23	15.00	151.32	287.23	15.00	462.12
1990	255.09	211.00	211.00	434.04	429.11	177.13	100.84	160.37	153.91	175.21	112.36	195.57	100.84	217.97	434.04	72.00	661.09
Min.	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	211.00
Avg.	101.28	108.00	154.89	146.73	233.21	91.64	51.91	135.23	107.88	163.15	133.59	132.53	35.15	130.01	268.27	23.00	211.00
Max.	317.25	211.00	211.00	436.22	499.78	352.32	155.32	193.45	162.34	191.30	787.10	758.42	134.59	255.31	787.10	102.00	2069.48
Daily																	
Min.	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	2069.48
Max.	552.35	211.00	211.00	945.70	870.51	623.46	204.97	211.00	191.07	211.00	2069.48	1431.52					

Table D-42 HGF Power Outflow Simulation Results (Irrigation Oriented, 2020 Abstraction)

(Unit: m<sup>3</sup>/s)

													Daily				
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Max.	Min.	Max.	
1957	183.79	173.79	160.66	120.55	169.00	38.00	23.66	121.71	130.51	159.00	102.00	72.00	23.66	121.22	183.79	15.00	211.00
1958	80.16	141.83	136.05	119.00	169.00	78.69	117.13	156.57	147.28	159.11	102.00	72.00	72.00	123.24	169.00	38.00	191.66
1959	74.30	137.22	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	96.88	169.00	15.00	169.00
1960	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1961	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	153.33	211.00	15.00	102.19	211.00	15.00	211.00
1962	211.00	211.00	131.27	190.68	137.05	79.81	154.17	150.00	159.27	104.37	102.00	72.00	72.00	150.97	211.00	50.44	211.00
1963	38.00	74.80	136.01	119.00	204.23	195.16	101.68	156.81	149.80	159.19	102.00	72.00	38.00	125.72	204.23	23.00	211.00
1964	196.64	211.00	176.58	139.29	211.00	137.25	76.20	156.08	150.54	159.22	102.00	72.00	72.00	148.98	211.00	38.00	211.00
1965	117.25	165.34	166.12	120.73	169.00	36.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	107.45	169.00	15.00	211.00
1966	38.00	23.00	136.00	119.00	169.00	68.10	82.65	152.90	154.82	159.56	181.93	87.12	23.00	114.34	181.93	23.00	211.00
1967	148.49	141.75	136.41	119.00	185.26	201.99	116.17	172.65	162.34	185.79	202.71	200.55	116.17	164.43	202.71	58.03	211.00
1968	208.76	205.78	211.00	208.23	211.00	205.60	151.84	193.45	161.88	171.27	123.69	211.00	123.69	188.63	211.00	98.08	211.00
1969	211.00	211.00	211.00	175.98	169.00	38.00	15.00	113.00	112.62	159.00	102.00	72.00	15.00	132.47	211.00	15.00	211.00
1970	38.00	133.96	138.89	130.58	169.00	38.00	51.59	147.40	156.23	159.74	103.97	72.00	38.00	111.61	169.00	15.00	211.00
1971	38.00	57.69	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	89.22	169.00	15.00	169.00
1972	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1973	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1974	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1975	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1976	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1977	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1978	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
1979	209.05	211.00	211.00	211.00	211.00	209.76	127.46	167.44	156.34	160.28	104.04	72.00	72.00	166.88	211.00	57.77	211.00
1980	123.33	151.14	136.41	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	104.16	169.00	15.00	172.29
1981	38.00	75.79	176.84	173.75	211.00	168.55	94.00	159.74	158.35	159.40	103.77	72.00	38.00	132.60	211.00	23.00	211.00
1982	38.00	122.85	136.20	119.00	169.00	51.01	94.31	173.47	157.17	182.88	153.92	180.94	38.00	131.56	182.88	38.00	211.00
1983	209.93	204.16	169.77	120.75	169.00	38.00	82.08	151.33	154.53	159.35	102.00	72.00	38.00	136.07	209.93	38.00	211.00
1984	38.00	125.42	136.71	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	94.93	169.00	15.00	170.82
1985	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	109.54	159.00	102.00	72.00	15.00	91.13	169.00	15.00	169.00
1986	38.00	74.28	136.00	119.00	169.00	38.00	15.00	133.58	147.94	159.00	102.00	72.00	15.00	100.32	169.00	15.00	169.00
1987	163.64	155.19	142.74	120.67	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	108.52	169.00	15.00	211.00
1988	38.00	23.00	136.00	119.00	208.29	145.33	79.52	155.22	155.67	173.99	105.89	148.72	23.00	124.05	208.29	23.00	211.00
1989	209.97	199.82	180.65	121.25	169.00	38.00	15.00	113.00	113.35	191.30	169.48	210.57	15.00	144.28	210.57	15.00	211.00
1990	209.48	211.00	211.00	211.00	211.00	166.62	99.66	160.37	153.91	175.21	112.36	155.77	99.66	173.11	211.00	72.00	211.00
Min.	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
Avg.	96.44	108.00	154.89	133.54	179.36	79.35	51.12	135.23	107.88	163.15	114.13	97.28	34.71	118.36	186.95	34.71	186.95
Max.	211.00	211.00	211.00	211.00	211.00	209.76	151.84	193.45	162.34	191.30	202.71	211.00	123.69	188.63	211.00	211.00	211.00
Daily Min.	38.00	23.00	136.00	119.00	169.00	38.00	15.00	113.00	52.00	159.00	102.00	72.00	15.00	86.33	169.00	15.00	169.00
Daily Max.	211.00	211.00	211.00	211.00	211.00	211.00	204.97	211.00	191.07	211.00	211.00	211.00	211.00	211.00	211.00	211.00	211.00

Table D-43 HGF Power Simulation Results (Irrigation Oriented, 2020 Abstraction)

(Unit:MW)

	Daily																
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Min.	Avg.	Max.		
1957	202.85	201.01	199.15	197.76	198.14	104.03	65.63	202.98	201.56	199.57	198.76	200.39	65.63	180.98	202.98	39.05	203.74
1958	142.38	201.01	198.98	197.02	197.32	140.74	202.90	203.03	201.56	199.89	199.00	200.27	140.74	190.34	203.03	102.49	203.74
1959	139.19	201.01	198.94	196.77	194.57	99.41	37.23	195.33	143.28	192.05	189.29	190.94	37.23	164.83	201.01	37.04	202.56
1960	98.97	62.71	193.50	192.24	190.88	97.21	36.36	190.62	140.12	186.94	184.92	185.45	36.36	146.56	193.50	36.17	195.25
1961	98.15	60.85	186.80	184.32	183.26	100.56	34.97	184.63	136.39	181.60	198.68	203.74	34.97	146.16	203.74	34.70	203.74
1962	203.74	202.75	200.29	198.76	201.99	203.05	201.39	203.03	201.56	200.00	199.50	199.39	198.76	201.29	203.74	146.36	203.74
1963	102.96	127.86	199.03	198.07	203.05	203.74	202.37	203.03	201.56	199.93	199.33	201.84	102.96	186.90	203.74	64.77	203.74
1964	196.79	201.32	199.16	199.28	203.71	203.74	202.74	203.03	201.56	199.95	199.38	200.65	196.79	200.94	203.74	105.53	203.74
1965	161.53	201.01	199.15	197.64	198.10	100.16	37.55	197.23	144.54	193.95	192.91	195.41	37.55	168.10	201.01	37.34	202.97
1966	100.90	63.89	197.98	198.46	201.75	154.26	203.74	203.03	201.56	200.02	201.85	203.65	63.89	177.59	203.74	63.64	203.74
1967	202.85	201.01	199.03	197.44	200.84	203.74	202.02	203.03	201.56	200.18	201.87	203.74	197.44	201.44	203.74	170.28	203.74
1968	203.00	201.05	199.78	200.13	203.74	203.74	203.74	203.03	201.56	200.07	200.79	203.74	199.78	202.03	203.74	199.21	203.74
1969	203.64	202.62	201.26	200.09	200.24	103.46	88.94	202.61	196.31	199.61	198.59	199.59	88.94	178.91	203.64	38.67	203.74
1970	103.48	186.00	199.10	199.34	201.45	104.56	136.64	203.03	201.56	200.05	199.34	199.22	103.48	177.81	203.03	39.14	203.74
1971	102.76	111.72	198.89	197.26	196.53	100.56	37.77	198.30	145.69	196.00	193.35	193.46	37.77	156.02	198.89	37.54	200.64
1972	99.70	63.13	195.09	192.20	189.37	96.86	36.32	190.83	140.38	187.47	187.65	190.44	36.32	147.45	195.09	36.08	196.79
1973	98.99	63.08	195.67	193.27	190.71	97.50	36.59	192.43	141.66	189.79	187.64	187.74	36.59	147.92	195.67	36.37	197.07
1974	96.74	61.40	189.36	188.62	188.15	96.33	36.04	190.68	140.73	188.46	186.85	187.62	36.04	145.92	190.68	35.68	191.16
1975	96.94	61.50	189.29	187.26	187.24	96.96	36.06	189.74	139.91	186.82	184.44	185.15	36.06	145.11	189.74	35.76	190.93
1976	100.78	60.67	185.08	178.94	174.34	97.45	33.02	175.44	130.92	166.66	159.86	159.42	33.02	135.22	185.08	32.67	187.95
1977	93.45	53.92	156.75	154.02	156.84	94.69	32.26	174.12	132.46	175.42	177.20	186.51	32.26	132.29	186.51	31.66	189.53
1978	98.79	63.50	199.06	201.94	203.74	203.74	202.86	203.03	201.56	200.09	200.57	202.98	199.94	181.82	203.74	62.94	203.74
1979	203.01	202.34	200.86	199.94	202.89	203.74	202.38	203.03	201.56	200.04	200.60	202.26	199.94	201.89	203.74	169.49	203.74
1980	174.30	201.01	199.12	197.63	195.64	99.93	37.51	197.08	144.94	194.24	194.29	197.65	37.51	169.41	201.01	37.28	203.21
1981	102.44	122.94	199.22	199.92	203.20	203.74	203.74	203.03	201.56	200.00	199.35	199.92	102.44	186.59	203.74	64.63	203.74
1982	103.62	179.14	199.09	196.20	198.71	120.90	203.74	203.03	201.56	200.31	201.66	203.71	103.62	184.47	203.74	65.21	203.74
1983	203.11	201.10	199.15	198.31	200.48	105.06	203.74	203.03	201.56	199.94	199.39	199.79	105.06	192.89	203.74	104.03	203.74
1984	103.66	184.61	199.13	197.40	194.45	98.82	36.98	193.98	142.85	190.97	190.89	193.22	36.98	160.94	199.13	36.79	201.64
1985	100.08	63.64	197.54	197.41	198.89	103.16	38.91	202.63	196.96	199.45	198.17	198.84	38.91	158.07	202.63	38.61	203.07
1986	102.87	128.22	199.04	197.62	198.41	103.15	38.96	202.86	201.56	199.75	199.09	201.95	38.96	164.46	202.86	38.66	203.23
1987	192.03	201.01	199.13	197.81	195.60	99.99	37.66	198.13	145.87	196.35	193.97	194.74	37.66	171.03	201.01	37.40	203.53
1988	100.28	63.47	196.65	196.77	203.21	202.28	203.74	203.03	201.56	200.10	200.79	203.61	63.47	181.29	203.74	63.25	203.74
1989	203.29	201.15	199.15	198.60	198.78	102.43	38.59	201.52	182.18	200.11	201.59	203.74	38.59	177.59	203.74	38.31	203.74
1990	203.71	202.52	200.76	203.08	203.74	203.74	203.74	203.03	201.56	200.08	201.02	203.49	200.08	202.54	203.74	199.60	203.74
Min.	93.45	53.92	156.75	154.02	156.64	94.69	32.26	174.12	130.92	166.66	159.96	159.42	32.26	132.29	185.08		
Avg.	139.44	141.30	196.18	195.10	195.82	133.92	109.02	197.84	175.64	194.88	194.79	196.60	81.45	172.54	200.37		
Max.	203.74	202.75	201.26	203.08	203.74	203.74	203.74	203.03	201.56	200.31	201.87	203.74	200.08	202.54	203.74		
Daily																	
Min.	93.11	53.90	152.94	152.29	156.05	92.51	31.68	173.73	130.26	161.66	158.76	158.83				31.68	203.74
Max.	203.74	203.60	202.13	203.74	203.74	203.74	203.74	203.73	202.27	200.79	203.74	203.74					



Table D-44 HGF Energy Simulation Results (Irrigation Oriented, 2020 Abstraction)

(Unit: GWh/y)

Year	Monthly												Ann. Tot.	Min.	Avg.	Max.	Daily Min.	Daily Max.
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.						
1957	132.00	111.26	111.62	81.01	117.46	24.97	16.28	86.42	89.52	110.74	67.20	50.00	998.48	16.28	83.21	132.00	0.31	4.89
1958	56.07	90.41	96.05	79.72	116.95	53.96	83.45	111.14	99.20	111.04	67.29	49.97	1015.25	49.97	84.61	116.95	0.82	4.48
1959	51.62	87.92	96.00	79.64	115.64	23.86	9.23	77.27	34.39	107.10	64.76	47.83	795.26	9.23	66.27	115.64	0.30	3.75
1960	24.54	14.05	93.93	78.34	113.98	23.33	9.02	75.95	33.63	104.89	63.72	46.63	682.01	9.02	56.83	113.98	0.28	3.70
1961	24.34	13.63	91.60	76.06	110.62	24.13	8.67	74.26	32.73	102.69	104.06	151.58	814.37	8.67	67.87	151.58	0.29	4.89
1962	151.58	136.25	149.01	88.79	135.74	95.09	54.76	109.62	101.35	111.24	69.15	49.75	1252.33	49.75	104.36	151.58	1.17	4.89
1963	25.54	47.75	96.05	80.12	146.22	135.87	70.79	111.50	101.20	111.13	67.42	50.37	1043.66	25.54	86.97	146.22	0.52	4.89
1964	140.72	135.29	123.78	94.68	151.56	94.82	52.87	111.04	101.79	111.16	67.44	50.07	1235.02	50.07	102.92	151.56	0.84	4.89
1965	83.31	105.17	115.90	81.10	116.33	24.94	9.31	77.83	34.69	107.89	65.62	48.81	870.00	9.31	72.50	116.33	0.30	4.81
1966	25.02	14.31	95.54	80.31	119.99	45.96	55.60	109.20	105.11	111.48	124.73	60.20	947.45	14.31	78.95	124.73	0.51	4.86
1967	104.98	90.12	96.21	79.85	131.04	140.56	82.86	123.93	111.03	130.68	139.62	143.98	1374.86	79.85	114.57	143.98	1.36	4.89
1968	149.34	132.07	148.63	142.14	151.58	143.12	108.79	139.47	110.59	120.13	83.37	151.58	1580.81	83.37	131.74	151.58	2.20	4.89
1969	151.51	136.16	149.74	120.08	118.93	24.83	9.66	80.22	77.03	110.78	67.13	49.80	1095.87	9.66	91.32	151.51	0.31	4.89
1970	25.66	84.69	98.01	88.68	119.78	25.09	35.14	105.26	106.27	111.63	68.80	49.71	918.72	25.09	76.56	119.78	0.31	4.81
1971	25.48	36.69	95.98	79.78	116.52	24.13	9.37	78.26	34.97	108.76	65.72	48.38	724.04	9.37	60.34	116.52	0.30	3.77
1972	24.73	14.14	94.48	78.33	113.29	23.25	9.01	76.01	33.69	105.12	64.37	47.72	684.14	9.01	57.01	113.29	0.29	3.68
1973	24.55	14.13	94.67	78.63	113.90	23.40	9.08	76.46	34.00	106.13	64.37	47.13	686.45	9.08	57.20	113.90	0.29	3.70
1974	23.99	13.75	92.49	77.30	112.74	23.12	8.94	75.97	33.78	105.55	64.16	47.11	678.92	8.94	56.58	112.74	0.29	3.66
1975	24.04	13.78	92.47	76.90	112.33	23.27	8.94	75.70	33.58	104.84	63.60	46.56	676.01	8.94	56.94	112.33	0.29	3.64
1976	24.99	13.59	91.02	74.52	106.83	23.39	8.19	71.66	31.42	96.46	57.47	40.84	640.38	8.19	53.37	106.83	0.26	3.49
1977	23.18	12.08	81.17	67.07	98.99	22.73	8.00	71.29	31.79	100.14	61.84	46.86	625.14	8.00	52.09	100.14	0.25	3.25
1978	24.50	14.22	124.62	145.39	151.58	92.56	61.55	117.38	107.04	118.93	79.66	71.89	1109.32	14.22	92.44	151.58	0.50	4.89
1979	149.59	135.97	149.44	119.55	142.21	145.93	90.74	119.84	106.35	112.04	69.34	50.47	1391.47	50.47	115.96	149.59	1.36	4.89
1980	87.15	95.15	96.26	79.93	116.12	23.98	9.30	77.77	34.69	108.01	65.94	49.32	843.62	9.30	70.30	116.12	0.30	3.96
1981	25.40	47.87	124.20	118.56	151.18	116.92	64.25	114.17	107.93	111.34	68.65	49.88	1100.35	25.40	91.70	151.18	0.52	4.89
1982	25.70	78.19	96.11	80.18	117.85	34.24	64.39	124.39	107.10	128.60	104.94	130.18	1091.87	25.70	90.99	130.18	0.52	4.89
1983	150.36	130.98	113.74	81.41	119.10	25.21	55.29	108.17	104.89	111.25	67.44	49.85	1122.69	25.21	93.56	150.36	0.83	4.89
1984	25.71	80.05	96.36	79.85	115.59	23.72	9.17	76.89	34.16	106.64	65.14	48.33	761.61	9.17	63.47	115.59	0.29	3.88
1985	24.82	14.26	95.36	79.87	117.98	24.76	9.65	80.23	74.78	110.67	66.97	49.62	748.97	9.65	62.41	117.98	0.31	3.81
1986	25.51	47.36	96.05	79.92	117.64	24.76	9.66	94.95	100.77	110.87	67.33	50.39	825.21	9.66	63.77	117.64	0.31	3.88
1987	117.21	98.09	100.24	81.13	116.11	24.00	9.34	78.18	35.01	108.92	65.87	48.57	882.77	9.34	73.56	117.21	0.30	4.88
1988	24.87	14.22	95.02	79.71	149.25	100.44	53.84	110.78	105.77	122.12	70.72	106.46	1033.20	14.22	86.10	149.25	0.51	4.89
1989	150.53	126.23	126.88	81.91	117.90	24.58	9.57	79.74	77.13	134.79	115.99	151.52	1198.57	9.57	99.88	151.52	0.31	4.89
1990	150.45	136.10	149.37	146.22	151.58	115.80	69.12	114.30	104.35	122.90	75.36	111.56	1447.11	69.12	120.59	151.58	1.63	4.89
Min.	23.18	12.08	81.17	67.07	98.99	22.73	8.00	71.29	31.42	96.46	57.47	40.84	625.14	8.00	52.09	100.14		
Avg.	67.62	68.76	108.03	89.31	124.25	53.51	34.82	94.57	72.70	111.67	74.86	67.44	967.53	23.02	80.63	130.58		
Max.	151.58	136.25	149.74	146.22	151.58	145.93	108.79	139.47	111.03	134.79	139.62	151.58	1580.81	83.37	131.74	151.58		
Daily Min.	0.74	0.43	2.57	2.22	3.18	0.74	0.25	2.30	1.04	3.04	1.91	1.31					0.25	
Daily Max.	4.89	4.89	4.85	4.89	4.89	4.89	4.77	4.88	4.43	4.81	4.89	4.89						4.89









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