

S E R V I C E B U L L E T I N

dbS

ENERGY STATISTICS

For further information write to DBS Energy and Minerals Section, Ottawa, or telephone 992-6014 (Area Code 613).

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Catalogue No. 57-002
Vol. 3, No. 48

DOMINION BUREAU OF
STATISTICS

NOV 4 1968

ENERGY & MINERALS SECTION

FILE

Electric Power Statistics

November 12, 1968

Inventory of Prime Mover and Electric Generating Equipment 1967 Additions,
Deletions and Changes.

Introduction

The report "Electric Power Statistics, Volume III" is an occasional publication which lists certain design details of electric generating equipment and the associated prime movers. The latest publication (Catalogue No. 57-503) listed these details for equipment as at December 31, 1966. The accompanying tables are intended for use in updating this publication by showing additions, deletions and changes which were made during the calendar year 1967. It is planned to continue publication at five year intervals and to provide these updating information sheets annually.

A separate table is provided for each type of generating equipment, i.e., hydro, steam, internal combustion and gas turbine. Each of these tables is divided into three sections, namely additions, changes and deletions. In many cases, the items appearing in the "changes" section of the table involve only a plant name change or a company name change. Any changes which have been made in the numeric data have been underlined.

In Table 2 the units for moment of inertia are millions of pounds - feet². This is a departure from the publication listing equipment as at December 31, 1966 where the unit used was thousands of pounds - feet².

For heading explanations and codes, please refer to Catalogue No. 57-503.

Review of Survey Results

Total generating capacity in Canada at the end of 1967 amounted to 32,762,867 Kw., 6.5% more than the 1966 total. Utilities accounted for 27,520,754 Kw. or 84.1% while industry had a capacity of 5,242,113 Kw. Hydraulic installations in 1967 accounted for 71.3% of the total and thermal plants 28.7% compared with 72.9% and 27.1% respectively in 1966. New thermal installations in 1967 exceeded new hydraulic installations by approximately 170,000 Kw.

6503-521

D.B.S. Regional Offices — St. John's • Halifax • Montreal • Toronto • Winnipeg • Edmonton • Vancouver

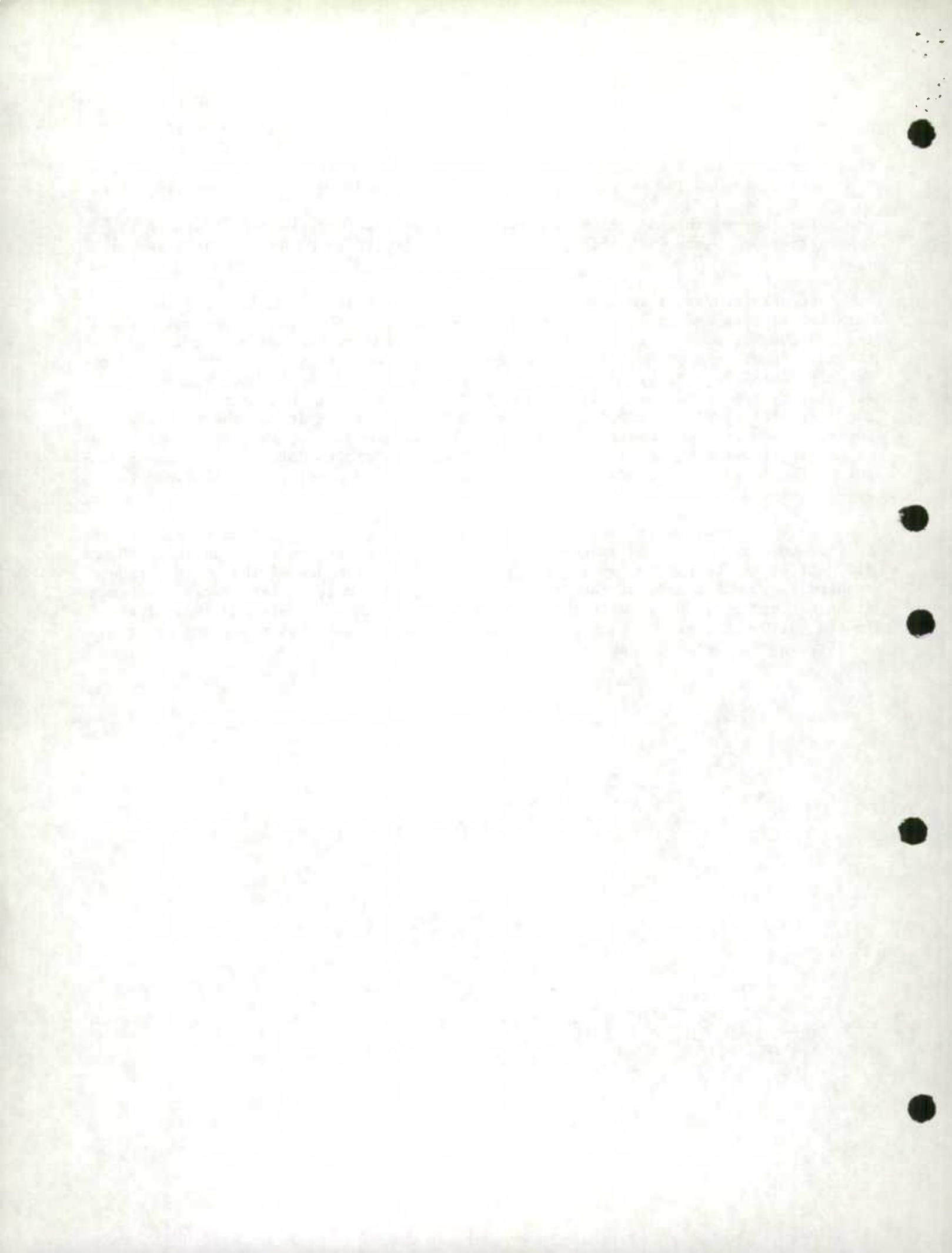


Quebec had the largest generating capacity at 11,604,761 Kw. or 35.4% of the national total, followed by Ontario with 30.7% and British Columbia with 12.3%. The largest increase in generating capacity during the year was in Alberta where the increase amounted to 550,835 Kw. Quebec increased its capacity by 415,995 Kw., British Columbia by 327,150 Kw., Ontario by 265,016 Kw. and New Brunswick by 118,625 Kw.

The largest thermal generating capacities were in Ontario with 39.8% of the Canada total, Alberta with 15.3%, British Columbia with 14.0% and Saskatchewan with 7.2%.

Notable increases in hydraulic capacity occurred in Newfoundland, Quebec, Ontario, Alberta and British Columbia. In Newfoundland the first three units totalling 225,000 Kw. came on line at the Bay d'Espoir plant of the Newfoundland and Labrador Power Commission. The Quebec increase was accounted for by three additional units totalling 188,370 Kw. being installed in Hydro Quebec's Manicouagan plants and also by two additional units of 36,630 Kw. each at the Rapide des Iles station. Two units totalling 139,500 Kw. were installed by Ontario Hydro at the Mountain Chute station on the Madawaska River. In Alberta, one unit of 161,500 Kw. was added at Calgary Power's Big Bend plant. The increase in British Columbia was accounted for by the addition of a 105,600 Kw. unit at the Kemano plant of the Aluminum Company of Canada.

Thermal capacity increased significantly in New Brunswick, Quebec, Alberta and British Columbia. The New Brunswick Electric Power Commission added another 110,000 Kw. unit to the Courtenay Bay station and Hydro Quebec completed the installation of a third 150,000 Kw. unit at the Tracy station. In Alberta, Calgary Power's Wabamun plant reached 582,000 Kw. with the addition of a 300,000 Kw. unit in 1967. The fourth 162,000 Kw. at the Burrard plant of the British Columbia Hydro and Power Authority was completed during the year.



- 3 -
TABLE I
Summary of Electric Generating Capacity as at December 31, 1967

	Generators			
	Publicly-operated utilities	Privately-operated utilities	Industries and other	Total
	KW.			
<u>All equipment</u>				
Newfoundland	258,236	442,575	88,605	789,416
Prince Edward Island	6,891	50,500	-	57,391
Nova Scotia	307,238	308,863	78,920	695,021
New Brunswick	656,356	31,840	124,825	813,221
Quebec	8,214,296	1,024,720	2,365,745	11,604,761
Ontario	9,112,509	338,740	598,380	10,049,529
Manitoba	1,407,498	-	21,781	1,429,279
Saskatchewan	926,390	106,950	44,857	1,078,197
Alberta	502,947	1,396,275	151,648	2,050,870
British Columbia	2,303,054	49,795	1,750,426	4,103,275
Northwest Territories	69,046	2,625	6,876	58,547
Yukon	17,240	6,070	10,050	33,360
Totals	23,761,801	3,758,953	5,242,113	32,762,867
<u>Hydro-electric</u>				
Newfoundland	225,920	397,671	68,135	691,726
Prince Edward Island	-	-	-	-
Nova Scotia	106,768	39,443	5,350	151,561
New Brunswick	216,596	30,840	14,200	261,636
Quebec	7,701,763	1,017,820	2,287,383	11,006,966
Ontario	5,711,823	333,170	256,769	6,301,762
Manitoba	1,064,000	-	10,350	1,074,350
Saskatchewan	279,900	106,740	12,300	398,940
Alberta	-	615,700	-	615,700
British Columbia	1,360,292	48,530	1,397,489	2,786,311
Northwest Territories	32,000	-	3,360	35,360
Yukon	16,490	1,650	10,050	28,190
Totals	16,695,552	2,591,564	4,065,386	23,352,502
<u>Internal combustion</u>				
Newfoundland	-	33,400	17,025	50,425
Prince Edward Island	-	50,500	-	50,500
Nova Scotia	194,500	267,500	72,970	534,970
New Brunswick	430,615	-	110,625	541,240
Quebec	450,000	-	68,530	518,530
Ontario	3,084,200	-	339,261	3,423,461
Manitoba	314,000	-	7,350	321,350
Saskatchewan	543,000	-	23,000	566,000
Alberta	411,291	684,500	129,211	1,225,002
British Columbia	648,000	-	313,030	961,030
Northwest Territories	600	-	-	600
Yukon	-	-	-	-
Totals	6,076,206	1,035,900	1,081,002	8,193,108
<u>Gas turbine</u>				
Newfoundland	18,166	11,504	3,445	33,115
Prince Edward Island	6,891	-	-	6,891
Nova Scotia	5,970	1,920	600	8,490
New Brunswick	9,345	1,000	-	10,345
Quebec	26,533	6,900	9,832	43,265
Ontario	25,686	5,570	2,350	33,606
Manitoba	13,598	-	4,081	17,679
Saskatchewan	26,450	210	9,557	36,217
Alberta	5,556	27,575	10,250	43,381
British Columbia	122,262	1,265	39,907	163,434
Northwest Territories	14,946	2,625	3,516	21,087
Yukon	750	4,420	-	5,170
Totals	276,153	62,989	83,538	422,680

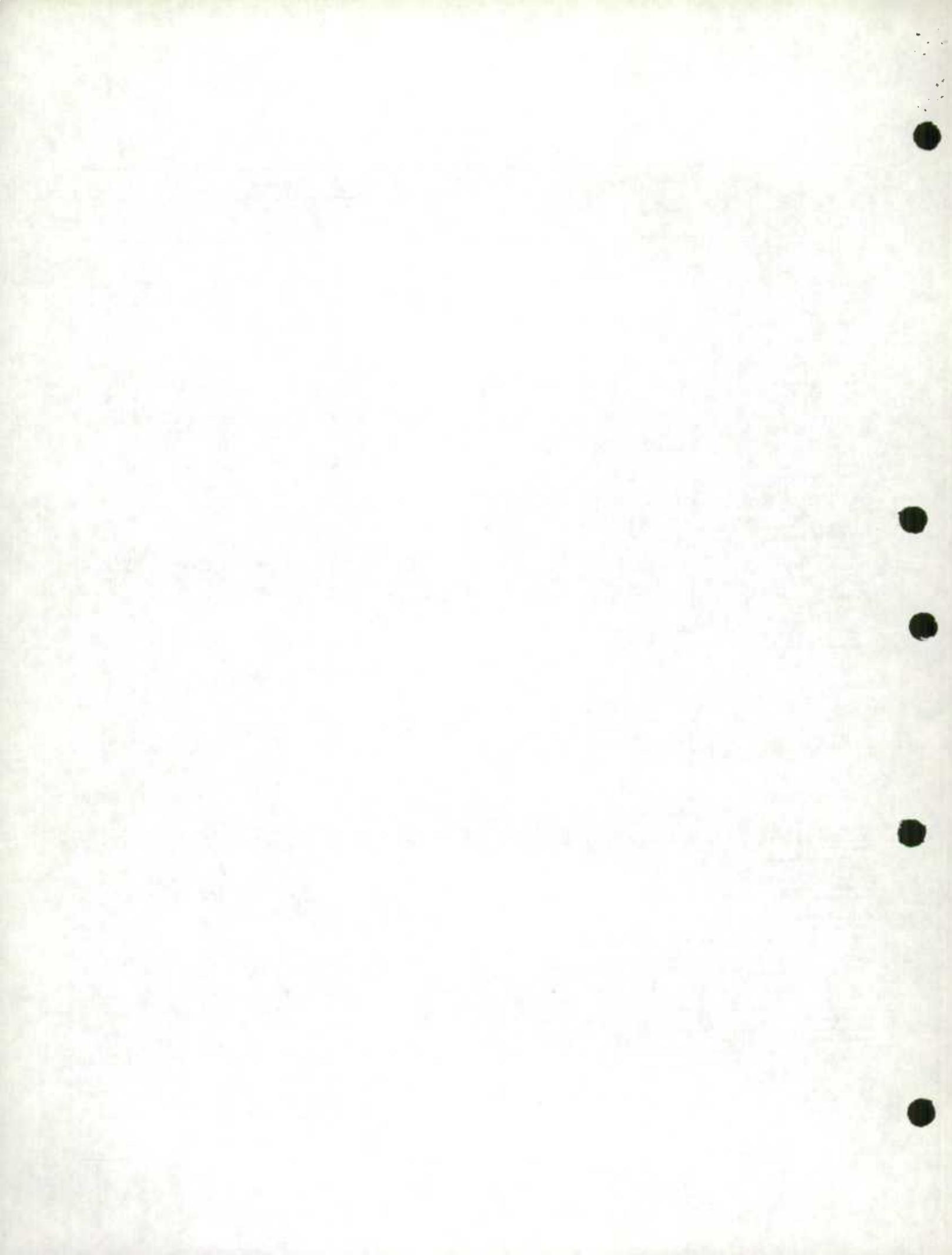


TABLE 2.

HYDRO			MAIN TURBINES										MAIN GENERATORS						
COMPANY NAME PLANT NAME WATER SUPPLY	CO ORDINATES LAT LONG	OPERATING HEADS MAX MIN NORM	AV AN FLOW CFS	YEAR	RUNNER	RPM	HEAD	HP	YEAR	MOMENT OF INERTIA	VOLTS	FREQ	KVA	POWER FACTOR	KW				
<u>ADDITIONS</u>																			
NEWFOUNDLAND																			
Nfld & Lab Power Comm																			
BAY OF ESPoir SALMON RIVER GREY R	47 56 55 46	585 540 577	2200 67	RPF	300	577	100000	67	21	13800	60	85000	.85	75000					
			67	RPF	300	577	100000	67	21	13800	60	85000	.85	75000					
			67	RPF	300	577	100000	67	21	13800	60	85000	.85	75000					
NOVA SCOTIA																			
NS POWER COMM																			
REYMOUTH FALLS	44 24 65 56			67	RF	257	128	12000	67		13800	60	11250	.80	9000				
QUEBEC																			
COMMISSION HYDROELECTRIQUE DE QUEBEC																			
MANIC #1	49 13 68 20			67	RF	100	120	80000	67		13800	60	68300	.90	61470				
MANIC #2	49 21 68 20			67	RF	120	230	170000	67		13800	60	141000	.90	126900				
RAPIDE DES ILES	47 28 79 14			67	RF	95	86	50000	67		13800	60	40700	.90	36630				
VAL BARRETTE KIAMIKA RIVER	46 30 75 22	37 35 37	300 49	IP	300	37	500					60	400	.80	320				
ONTARIO																			
BROWN FOREST INDUSTRIES LTD																			
ESPAOLA	46 16 81 46			66	RF	257	64	2000	46		2300	60	1600	.80	1280				
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO																			
MOUNTAIN CHUTE MADAWASKA RIVER	45 11 76 50	156 151 153	2800 67	F	100	153	112000	67		13800	60	75000	.93	69750					
			67	F	100	153	112000	67		13800	60	75000	.93	69750					

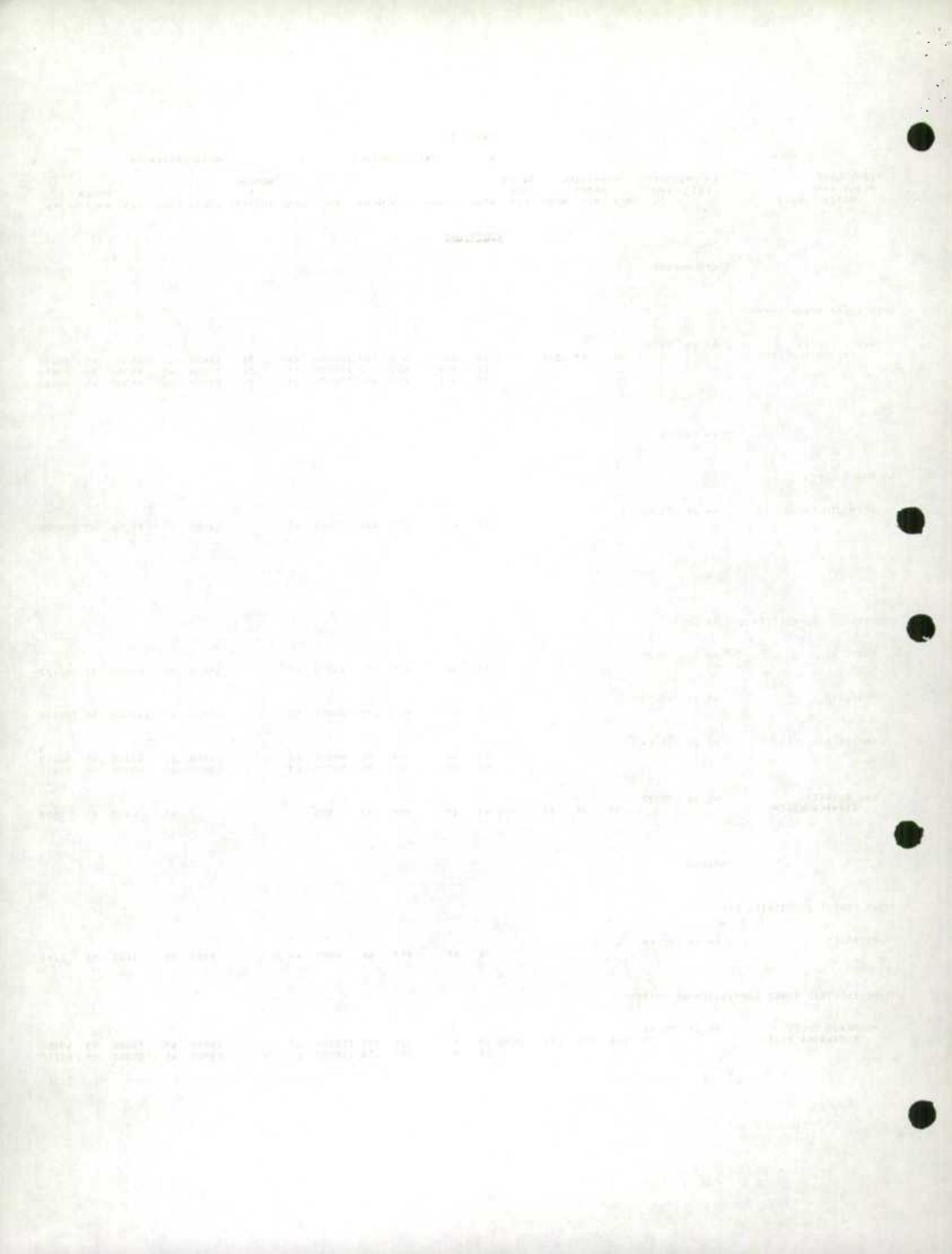


TABLE 2. - CONTINUED

SYSTEM			MAIN TURBINES										MAIN GENERATORS						
COMPANY NAME	CO ORDINATES	OPERATING HEADS	AV AN FLOW			YEAR RUNNER RPM HEAD			MOMENT OF INERTIA			VOLTS FREQ KVA			POWER FACTOR				
PLANT NAME	LAT LONG	MAX MIN NORM	CFS	YEAR	RUNNER	RPM	HEAD	HP	YEAR	INERTIA	VOLTS	FREQ	KVA						
WATER SUPPLY																			
THE MILLER BROS CO LTD																			
GLEN MILLER TRENT RIVER	46 08 77 36	14 12 13	1200	36	180	13	200	36	550	60	225	85	191						
			36	225	13	225	36	550	60	325	85	276							
			39	100	13	200	39	550	60	500	85	425							
			45	150	13	200	45	550	60	219	85	186							
			58	180	13	200	58	550	60	250	85	213							
SASKATCHEWAN																			
SASKATCHEWAN POWER CORP																			
SQUAW RAPIDS	53 42 103 20				67	F	120	105	52750	67	58	14400	60	43000	90	38700			
ALBERTA																			
CALGARY POWER LTD																			
BIG BEND	52 54 115 15				67	F	150	386	250000	67	105	13800	60	170000	95	161500			
BRAZEAU PUG STATION BRAZEAU RIVER	52 54 115 15	20			1850	55	150	20	12850	65	2	13200	60	10800	90	9720			
					67	RPK	150	20	2300	67	2	13200	60	10800	90	9720			
BRITISH COLUMBIA																			
ALUMINUM CO OF CANADA																			
KEMANO	53 34 127 56				67	O	327	2500	150000	67	28	13800	60	132000	80	105600			
CHANGED																			
NEWFOUNDLAND																			
FIRST MARITIMES MINING CORP LTD (SOLD THESE PLANTS TO THE NEWFOUNDLAND POWER COMMISSION)																			
SNOOKS ARM SISTERS SYSTEM	49 51 55 33				273	270	271	29	57	I	1200	270	760	57	6900	60	700	80	560

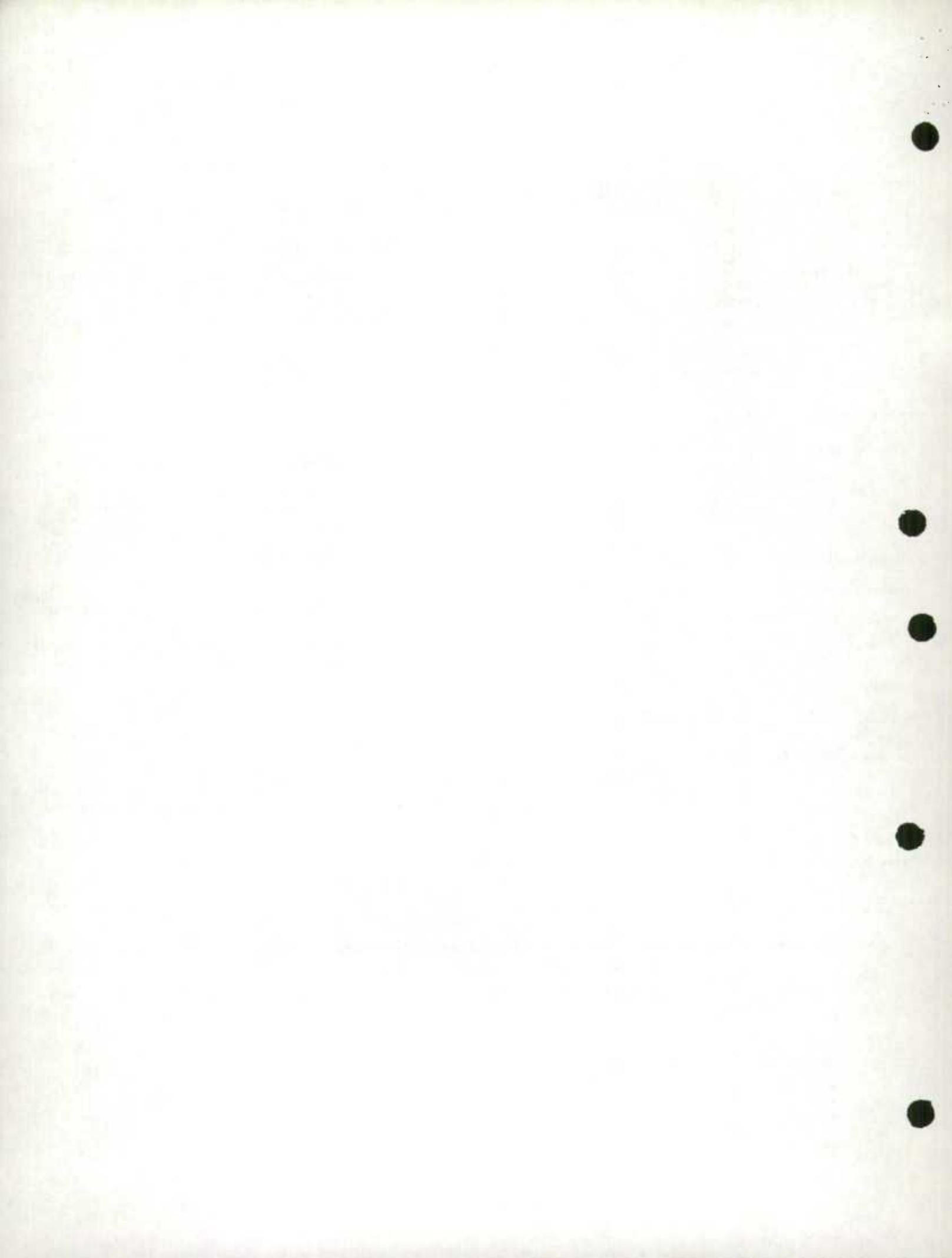


TABLE 2. - CONTINUED

HYDRO				MAIN TURBINES								MAIN GENERATORS					
COMPANY NAME	CO ORDINATES		OPERATING HEADS	AV AN FLOW			YEAR RUNNER RPM HEAD			MOMENT OF INERTIA			POWER FACTOR			X	
PLANT NAME	LAT	LONG	MAX MIN NORM	CFS	YEAR	RUNNER	RPM	HEAD	HP	YEAR	VOLTS	FRQ	KVA	KW	X	X	
VENAMIS RIGHT BURNET ILE SYSTEM	49 52	55 40	268 256 260	18 57	1	1200	265	460 57		6900	60		450 80	360			

NEW BRUNSWICK

CONSOLIDATED-BATHURST LTD (FORMERLY BATHURST POWER & PAPER CO LTD)

QUEBEC

COMMISSION HYDROELECTRIQUE DE QUEBEC

BEAUFARNOLES #2	45 19	73 55		50	RF	75	76	56000	50	110	13800	60	51400	80	41120
				51	RF	75	76	56000	51	110	13800	60	51400	80	41120
				51	RF	75	76	56000	51	110	13800	60	51400	80	41120
				52	RF	75	78	55000	52	110	13800	60	50000	80	40000
				52	RF	75	78	55000	52	110	13800	60	50000	80	40000
				53	RF	75	76	55000	53	110	13800	60	50000	80	40000
PARENT	47 48	74 42		56	RPK	360	27	1200	56		2300	60	1000	80	800
ST ELZIEUX				29	RP	900	114	520	29		2300	60	438	80	350
				43	RP	900	114	520	43		2300	60	438	80	350

PEMBROKE ELECTRIC LIGHT CO LTD

W R REATTY 45 55 76 55 (FORMERLY THE WALTHAM PLANT)

DELETIONS

QUEBEC

COMMISSION HYDROELECTRIQUE DE QUEBEC

BELLE RIVIERE LA BELLE RIVER	A9	A7	AA	95 28	RF	600	94	800 28		6900	60		750 80	600	
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UNIROYAL LTD

ST JEROME NORTH RIVER	45 46	74 00	30	26	28	322 19	RF	225	32	800 19		550 60		312 80	250
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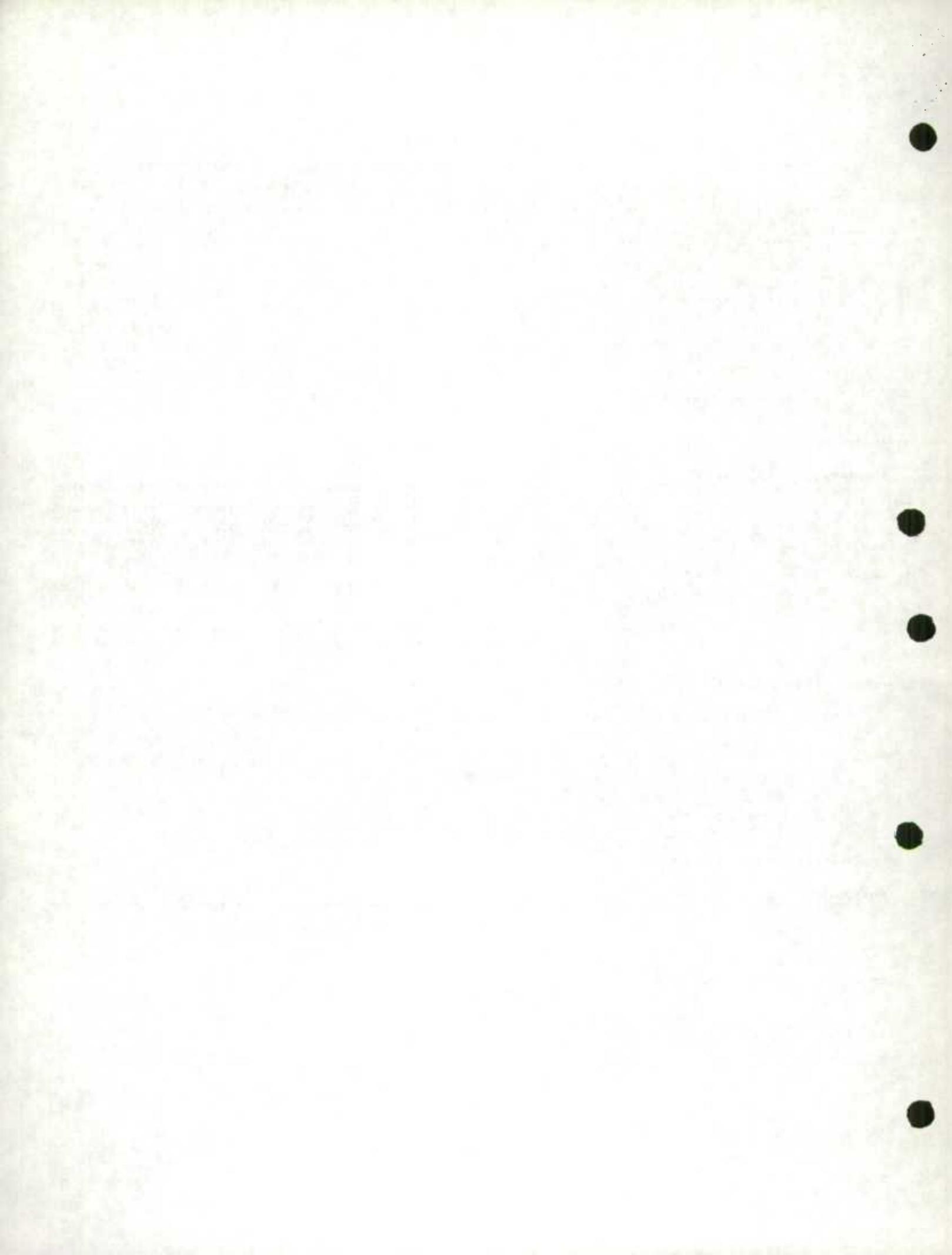


TABLE 2. - CONCLUDED

HYDRO			X			MAIN TURBINES			X			MAIN GENERATORS			X						
COMPANY NAME	CO ORDINATES	OPERATING HEADS	AV AN FLOW									MOMENT OF		POWER							
PLANT NAME	LAT	LONG	MAX	MIN	NORM	CFS	YEAR	RUNNER	RPM	HEAD	HP	YEAR	INERTIA	VOLTS	KVA	FACTOR	KW				
ONTARIO																					
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO																					
DECEW FALLS #1	43 07	79 16																			
								01	RF	257		3000	01		2380	60	2220	90	2000		
								02	RF	257		3000	02		2380	60	2220	90	2000		
								13	RF	360		3000	13		2380	60	2780	90	2500		
HANOVER	44 10	81 02																			
SAUGEEN RIVER								12	00	RF	225		175	00		4000	60	190	80	150	
									00	RF	225		175	00		4000	60	190	80	150	
ONTARIO POWER	43 05	79 05																			
								13	RF	188		13400	13		12000	25	9750	90	8775		
								14	RF	188		13400	14		12000	25	9750	90	8775		
								19	RF	188		20000	19		12000	25	15000	90	13500		
LAKE OF THE WOODS MILLING CO. LTD																					
MILL A	49 46	94 33						21	16	18	142 05	R	200	20	360 07		600	60	240	90	215
LAKE OF THE WOODS									05	R		200	20	360 07		600	60	240	90	215	
MILL C	49 46	94 33						21	16	18	31 07	R	150	16	425 07		550	60	280	98	275

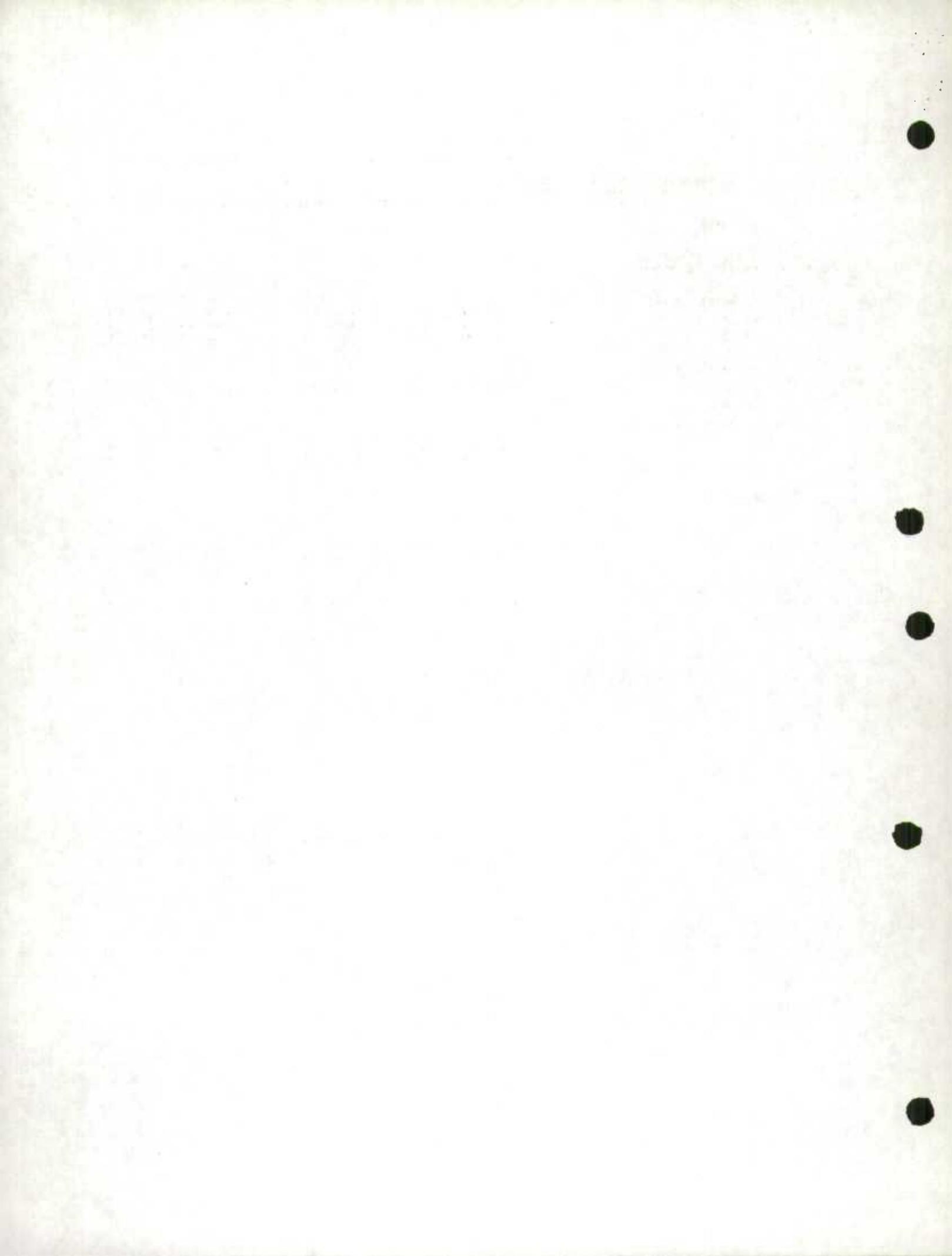


TABLE 3.

COMPANY NAME PLANT NAME	STEAM CO ORDINATES LAT LONG	BOILERS	PRIME MOVERS	MAIN GENERATORS
		STEAM FUEL YEAR PSIG TEMP LR/HR AND 000 FIRING	THROTTLE PSIG TEMP YEAR TYPE	MAX CONT RPM KW YEAR VOLTS

ADDITIONS

NOVA SCOTIA

SCOTT MARITIMES PULP LTD

ABERCHROMBIE POINT	45 23 62 43	67 850 900 500 0W 67 850 860 350 0	67 CE 850 880 3600 15625	67 A 13800 60 22059 85 18750
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NEW BRUNSWICK

FRASER COMPANIES LTD.

MERCIER	47 00 65 34	66 650 750 251 0	67 F 600 750 3600 15625	67 A 6900 60 22000 80 15625
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NU ELECTRIC POWER COMM

COURTENAY BAY	45 16 66 01	67 1825 1005 700 0	67 C 1800 1000 3600 110000	67 H 13800 60 204121 85 110000
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QUEBEC

CANADIAN CELANESE LTD

DRUMMONDVILLE	45 53 72 30	67 850 825 200 0
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COMMISSION HYDROELECTRIQUE DE QUEBEC

TRACY	45 01 73 10	67 2075 1600 1150 0	67 C 1800 1000 3600 150000	67 H 16000 60 764701 85 150000
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ONTARIO

ARBITRI PAPER CO
THUNDER BAY

48 22 89 13	27 360 650 55 WGS 28 360 650 55 WGS 49 360 700 85 WGS	27 DC 350 685 3600 3125 27 A 600 60 3275 80 2620
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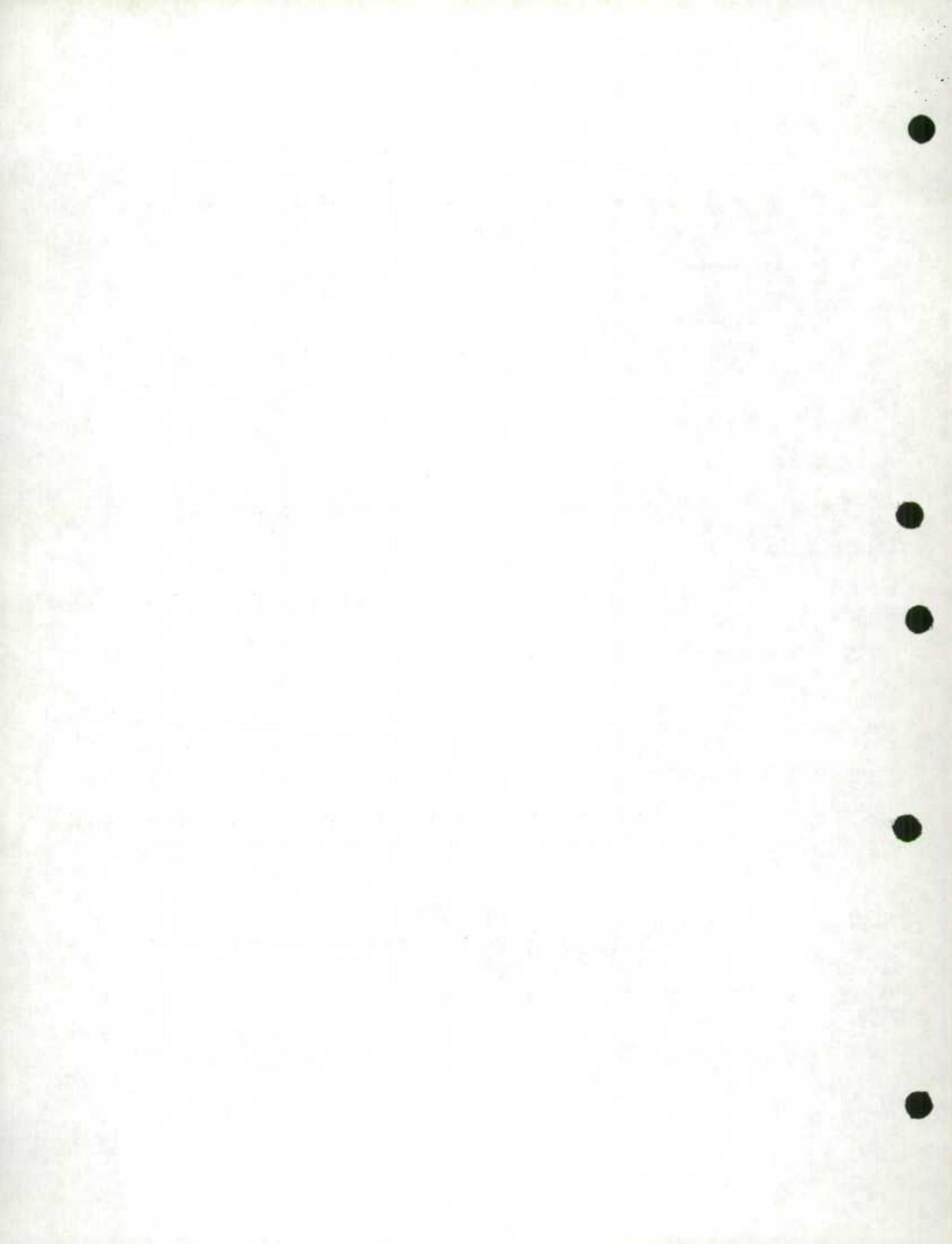


TABLE 3. - CONTINUED

COMPANY NAME PLANT NAME	STEAM LAT LONG	BOILERS	X	PRIME MOVERS	X	MAIN GENERATORS	X
	CO-ORDINATES	STEAM FUEL		THROTTLE	MAX	COOL	POWER
	LAT LONG	YEAR PSIG TEMP	LB/HR AND 000	PSIG TEMP	CONT RPM KW	ANT FREQ	FACTOR
SPRUCE FALLS POWER & PAPER CO LTD							
KAPUSKASING MILL	49 25 82 26	28	260 560	85 CGW			
SASKATCHEWAN							
HUDSONS BAY MINING & SMELTING CO LTD							
FLIN FLON	54 46 101 53	67	200 450	90 N			
ALBERTA							
EDMONTON H.P.W.							
INST OF TECH	51 03 114 05						
	21	200	388	10 G			
	67	175	375	70 G			
RED DEER HOSPITAL	52 16 113 48	67	175 375	70 G			
	67	160	370	35 G			
CALGARY POWER LTD							
WARMIN	53 33 114 29	67	2450 1005	2050 CGW	67 C 2350 1000 3600 300000	67 H 18500 60 333333	90 300000
CANADIAN SUGAR FACTORIES LTD							
TABER	49 47 112 08				67 B 410 625 7500 5000	67 A 2300 60 5000	H6 4300
WEST CANADIAN OIL SANDS LTD							
TAR ISLAND	56 57 111 26						
	66	795	750	825 (1)	66 RE 795 750 3600 32500	67 A 13800 60 38250	85 32500
	66	795	750	825 (1)	67 RE 795 750 3600 32500	67 A 13800 60 38250	85 32500
	67	795	750	825 (1)			
BRITISH COLUMBIA							
BC FOREST PRODUCTS LTD							
HAMMOND	49 13 122 38	67	160 364	7 H			

(1) PETROLEUM COKE.

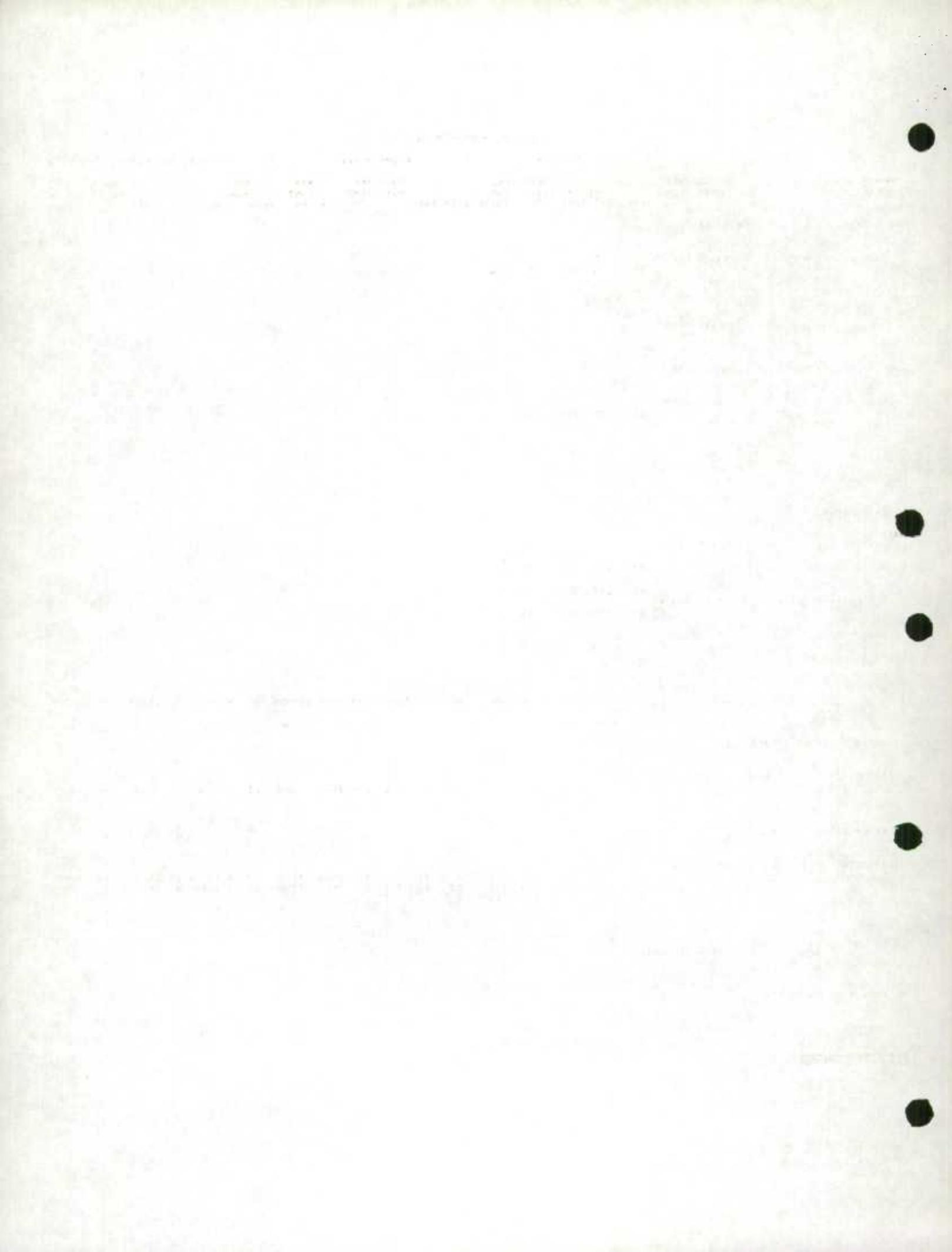


TABLE 3. - CONTINUED

COMPANY NAME PLANT NAME	STEAM CO ORDINATES LAT LONG	BOILERS STEAM YEAR	FUEL LB/HR PSIG TEMP	PRIME MOVERS THROTTLE PSIG TFMP	MAX CONT RPM KWH	MAIN GENERATORS COOL -ANT FREQ YEAR VOLTS KVA	POWER FACTOR KW
BC HYDRO AND POWER AUTHORITY							
BURRARD	49 17 122 52		67 1850 1010 1050 60	67 C 1800 1000 3600 150000	67 H 16500 60 800001	90 162000	
CANADIAN FOREST PRODUCTS LTD							
PORT MELLON	49 32 123 29		62 400 550 220 0W				
CROWN ZELLERBACH CANADA LTD							
OCEAN FALLS	52 21 127 40		67 72% 725 225 0				
MCMILLAN-BRENTELL LTD							
POWELL RIVER	49 52 124 33		67 900 925 400 0	67 R 900 925 3600 36000	67 A 13800 60 40000	90 36000	
VICTORIA PLYWOOD LTD VICTORIA	48 25 123 22		52 225 388 28 W	61 C 215 388 6097	450 61 A 450 60	563 80 450	

CHANGES

NEW BRUNSWICK

CONSOLIDATED-BATHURST LTD (FORMERLY BATHURST POWER & PAPER CO)

ONTARIO

AMERICAN CAN OF CANADA LTD (FORMERLY MARATHON CORPORATION LTD)

POLYMER CORPORATION LTD

SARNTA	42 58 82 23		63 440 650 308 CPOG	43 P 400 650 3600	4000	
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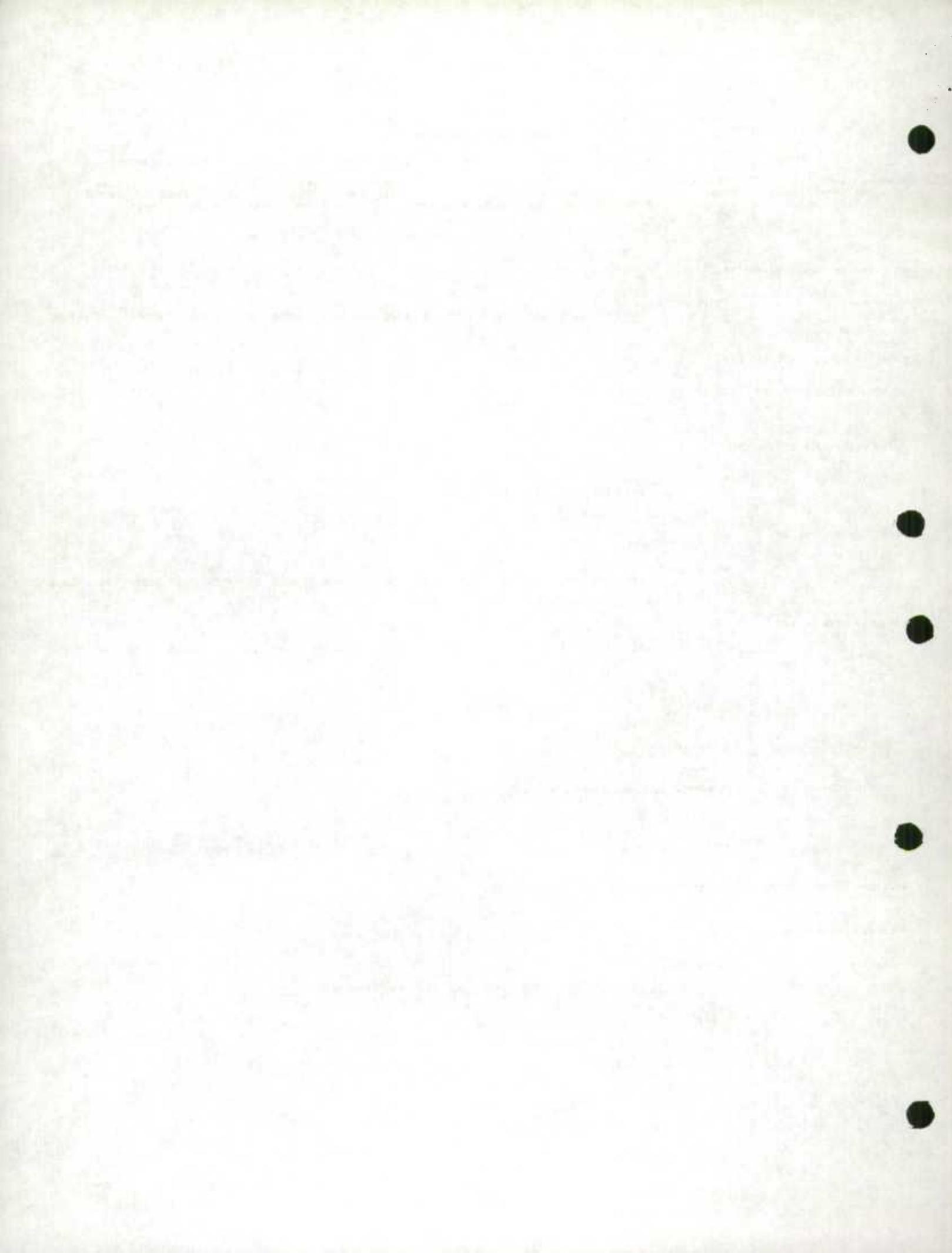


TABLE 3. - CONTINUED

COMPANY NAME PLANT NAME	STEAM		BOILERS		PRIME MOVERS		MAIN GENERATORS		POWER FACTOR KVA	KWH
	CO-ORDINATES LAT	LONG	STEAM YEAR	FUEL PSIG TEMP	LB/HR 000	AND FIRING	THROTTLE PSIG TEMP	MAX CONT HPM KW	COOL -ANT YEAR	
SPRUCE FALLS POWER & PAPER CO LTD										
KAPUSKASING MILL	49 25	B2 26	28	260 560	85	CP	28 R 200 488 6500	650 28 A 540 DC		650
			28	260 560	100	CPG	28 R 200 488 6500	650 28 A 540 DC		650

SASKATCHEWAN

SASKATCHEWAN POWER CORP

QUEEN ELIZABETH	52 07	106 38	54	875 915	600	CPOG	58 C 875 910 3600	66000 58 H 14400 60 93750	80	<u>75000</u>
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ALBERTA

SA KINTENAY POWER CO LTD (THIS PLANT NOW OWNED BY CALGARY POWER CO)

SENTINEL	49 38	114 35	46	240 550	90	CP	27 C 225 550 3600	5000 27 A 6600 60 6250	80	5000
			46	240 550	90	CP	29 C 225 550 3600	5000 29 A 6600 60 6250	80	5000

EDMONTON CITY OF

ROSEDALE 53 33 113 28 (FORMERLY LISTED AS THE EDMONTON PLANT)

BRITISH COLUMBIA

MACMILLAN BLOEDEL LTD

POWELL RIVER	49 52	124 33	54	180 550	70	0	51 A 550 775 3000	12500 51 A <u>6600</u> 50 13125	80	10500
			54	500 800	150	WD				
			54	500 800	200	WD				

WESTCOAST TRANSMISSION CO LTD

MC MAHON 56 10 120 41 (FORMERLY LISTED AS THE TAYLOR PLANT)

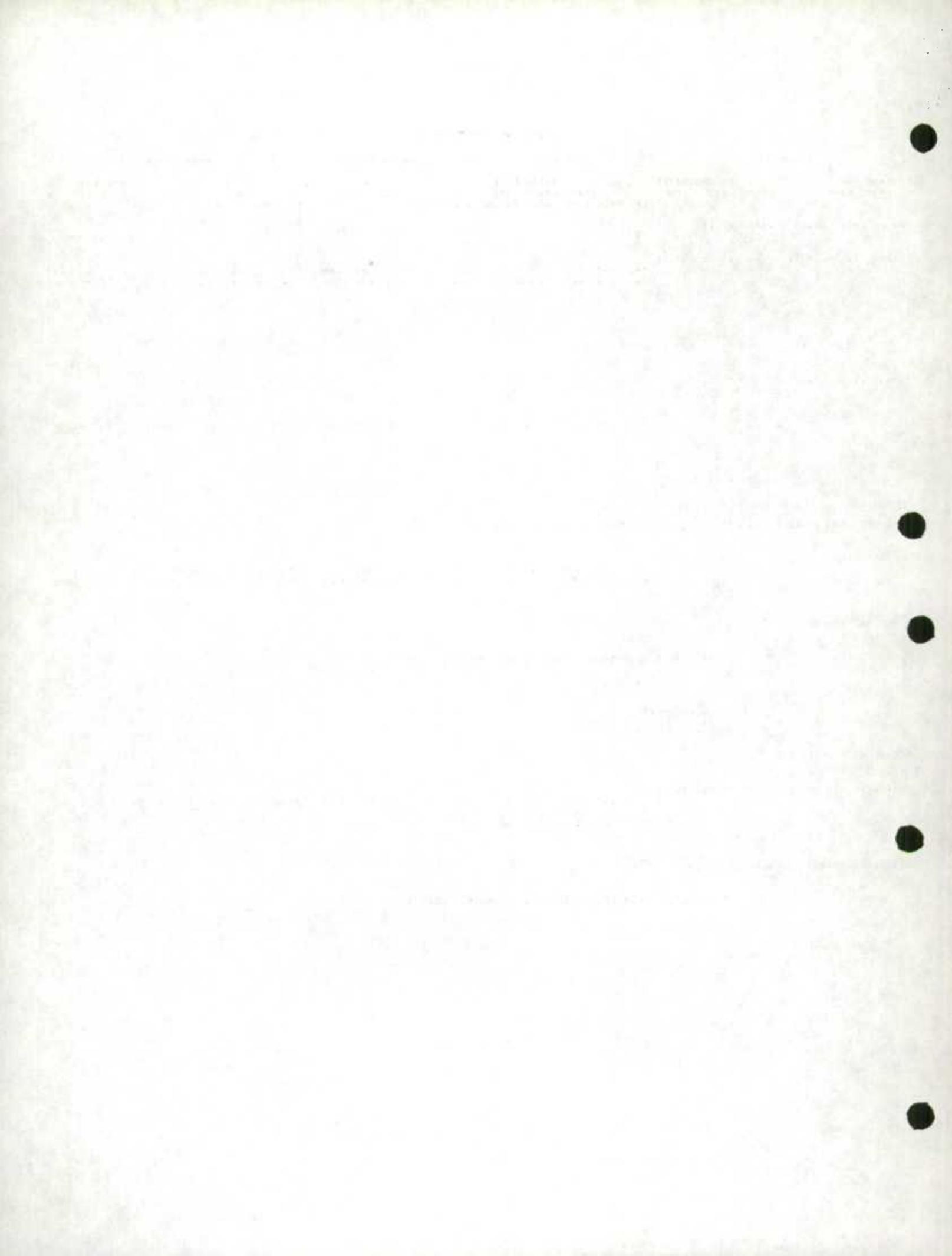


TABLE 3. - CONTINUED

COMPANY NAME PLANT NAME	STEAM		BOILERS		PRIME MOVERS		MAIN GENERATORS		X
	CO ORDINATES LAT LONG	STEAM FUEL YEAR PSIG TEMP LB/HR AND 000	STEAM FIRING YEAR	FUEL TYPE	THROTTLE PSIG TEMP YEAR	MAX CONT RPM KW	COOL -ANT YEAR	FREQ VOLTS	

DELETIONS

NEWFOUNDLAND

TILT COVE POWER CORP

TILT COVE	49 53 55 35	60	420	740	18	60	C	400	740	3600	5000	60	W	6600	60	6250	80	5000
		60	420	740	0													

NOVA SCOTIA

MOTORS LTD

HALIFAX	44 39 62 35	15	150	365	4	C												
		15	150	365	4	C												
		47	150	365	10	0	10	A	150	365	164	150						

NEW BRUNSWICK

BASES COMPANIES LTD

NEWCASTLE	47 00 65 34				49	C	600	700	3600	2000	49	A	6900	60	2500	80	2000
					49	E	600	700	3600	2500	49	A	6900	60	3125	80	2500

NB ELECTRIC POWER COMM

GRAND LAKE NO 1	46 04 66 00				31	C	430	660	3600	3575	31	A	7000	60	3575	70	2500
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ONTARIO

CANADA & DOMINION SUGAR CO LTD

TORONTO	43 40 79 23	58	100	316	15	0											
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CONTINENTAL CAN CO

TORONTO MILL	43 39 79 24	28	300	548	60	0	41	C	265	510	4500	2600					
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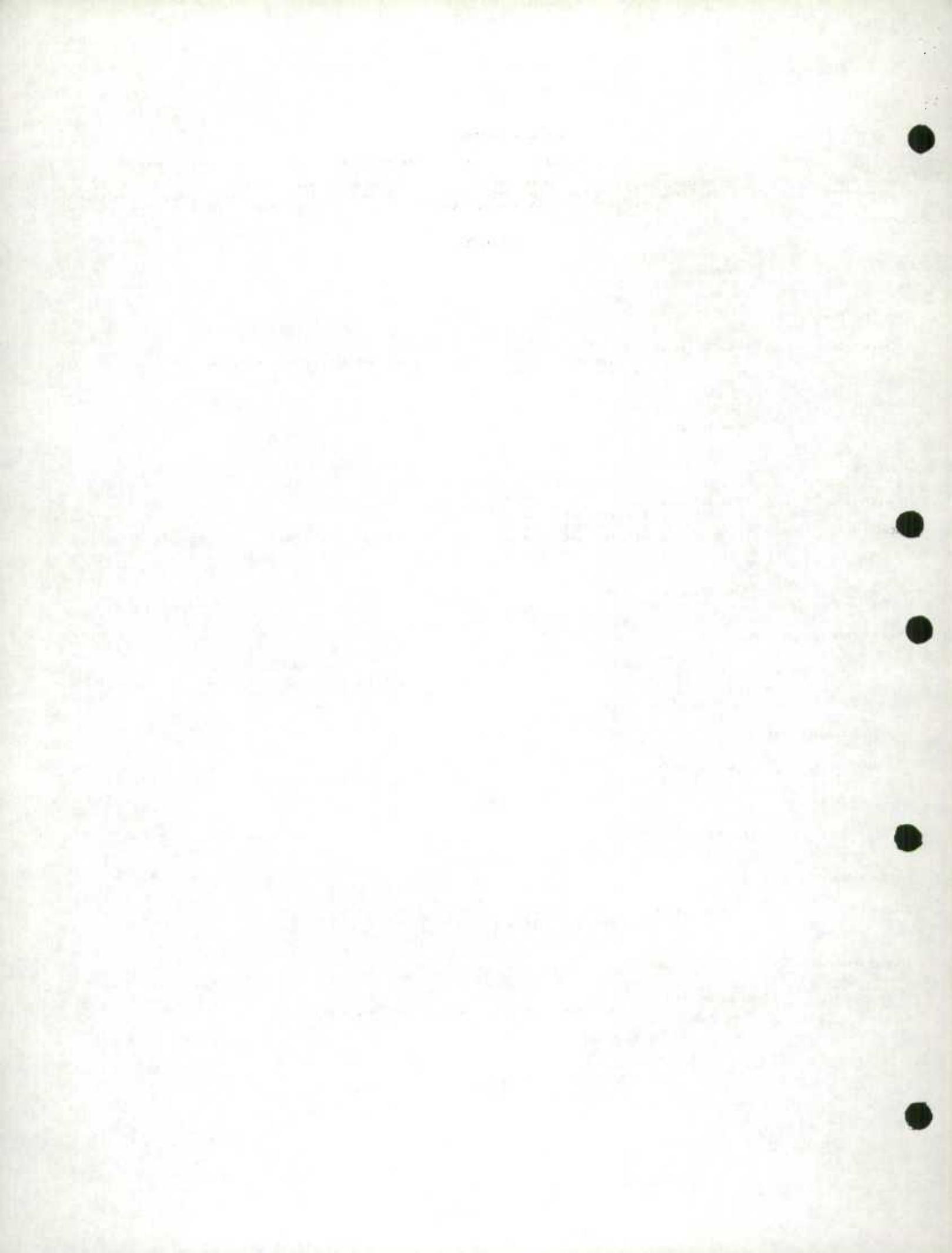


TABLE 3. - CONCLUDED

COMPANY NAME PLANT NAME	X	BOILERS	X	PRIME MOVERS	X	MAIN GENERATORS	X
CO ORDINATES LAT LONG		STEAM FUEL LB/HR AND YEAR PSIG TEMP		THROTTLE PSIG TEMP	MAX CONT	COOL -ANT	POWER FACTOR
		000 FIRING YEAR TYPE		RPM KW	RPM KW	YEAR	KVA KW

SASKATCHEWAN

HUDSONS BAY MINING & SMELTING CO LTD

FLIN FLON	54 46 101 53	30	250	550	14	0
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BRITISH COLUMBIA

BC FOREST PRODUCTS LTD

HAMMOND	49 13 122 38	26	160	364	7	W
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MCMILLAN REDEDEL LTD

POWELL RIVER	49 52 124 33	30	600	800	100	0W
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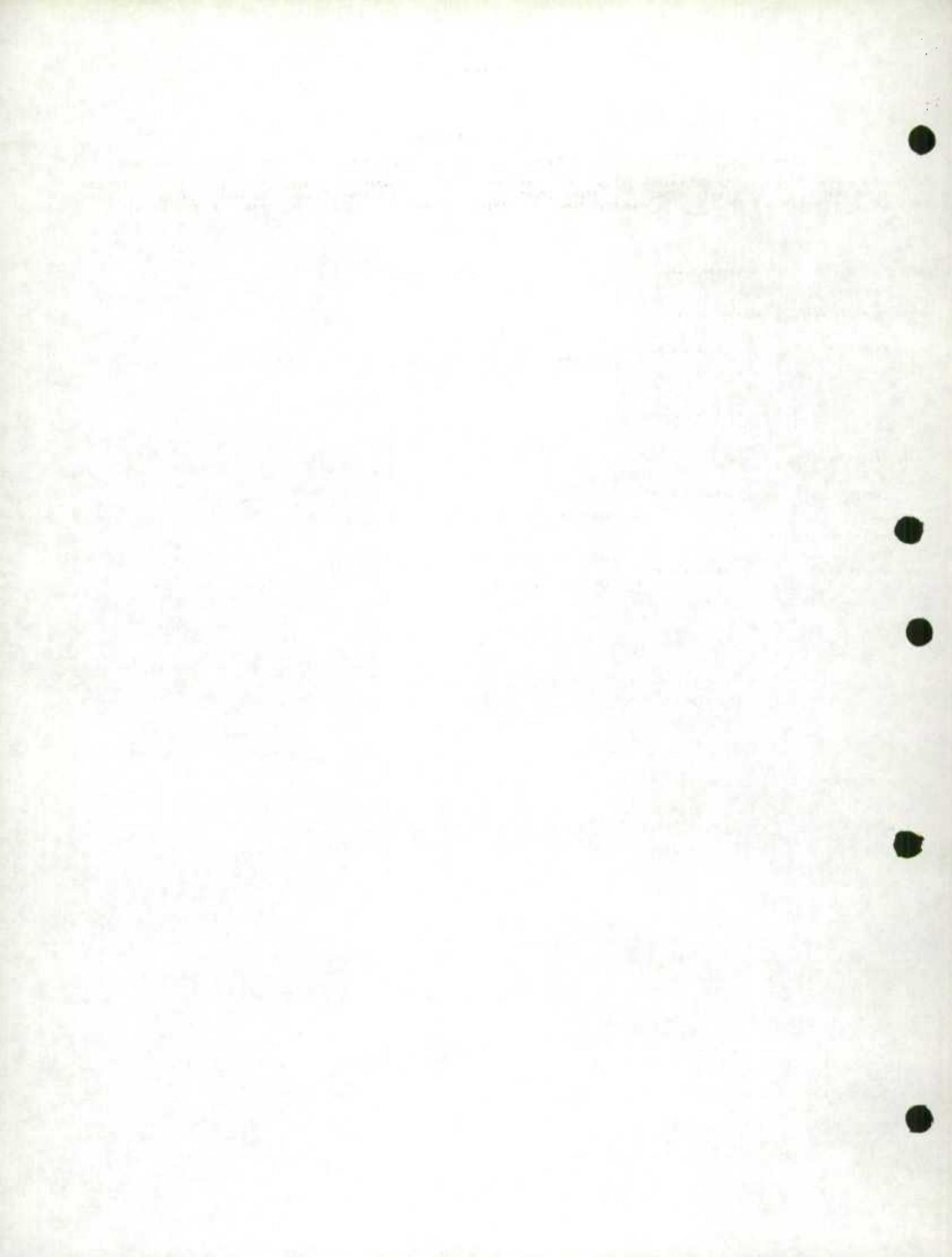


TABLE 4.

COMPANY NAME PLATE NAME	INTERNAL COMBUSTION			PRIME MOVERS						MAIN GENERATORS									
	CO ORDINATES LAT	LONG		SUPER YEAR	NO OF CYLINDERS	TYPE	FUEL CYCLE	CHARGED CYLINDERS	RPM	HP	KW	YEAR	VOLTS	FREQ	KVA	POWER FACTOR	KW		
<u>ADDITIONS</u>																			
NEWFOUNDLAND																			
NEWFOUNDLAND & LABRADOR GOVERNMENT OF																			
MARINER	55 05	59 11		65 67	D D	D D		4 4	N N	4 4	2000 1800	65 54	60 67	65 220	220 60	75 60	80 80	50 54	
FIELD & LAB POWER COMM																			
BONNE BAY	49 30	57 55		67	D	D		4	N	6	720	175	130	67	600	60	125	80	100
BRENT'S CAYE	49 36	58 43		57 57	D D	D D		4 4	N N	4 4	1800 1800	50 50	37 37	67 67	600 600	60 50	34 34	80 80	30 30
BURGESS	47 36	57 14		67	D	D		4	N	8	1800	350	260	67	600	60	250	80	200
CAPE RAY	47 37	59 15		67	D	D		4	N	2	1200	24	18	67	600	60	15	80	12
CARIBBEAN	47 52	59 23		67	D	D		4	N	8	800	175	130	67	200	60	125	80	100
CITY HEAD	49 55	57 49		67	D	D		4	N	6	1800	115	86	67	600	60	75	80	60
EGGO	49 43	54 17		67 67	D D	D D		4 4	N N	6	720 720	175 175	130 130	67 67	200 200	60 60	125 125	80 80	100 100
GALLANTS	48 42	58 14		67	D	D		4	N	4	1800	75	56	67	600	60	50	80	40
HAMPDEN	49 33	56 52		57 67	D D	D D		4 4	N N	6	1800 1200	115 115	86 86	67 67	600 600	60 60	75 75	80 80	60 60
HAPPY VALLEY	53 18	58 18		67 67 67 67	D D D D	D D D D		4 4 4 4	N N N N	16 16 8 8	720 720 1200 1200	1600 1600 400 400	1200 1200 300 300	67 67 67 67	2400 2400 600 600	60 60 60 60	1375 1375 315 315	80 80 80 80	1100 1100 250 250
HARBOUR BRETON	47 29	55 48		67	D	D		4	N	6	720	175	130	67	200	60	125	80	100
KINGS POINT	49 35	56 11		67	D	D		4	N	8	1200	175	130	67	600	60	125	80	100
LA SCIE	49 57	55 36		67	D	D		4	N	6	1800	115	86	67	600	60	75	80	60

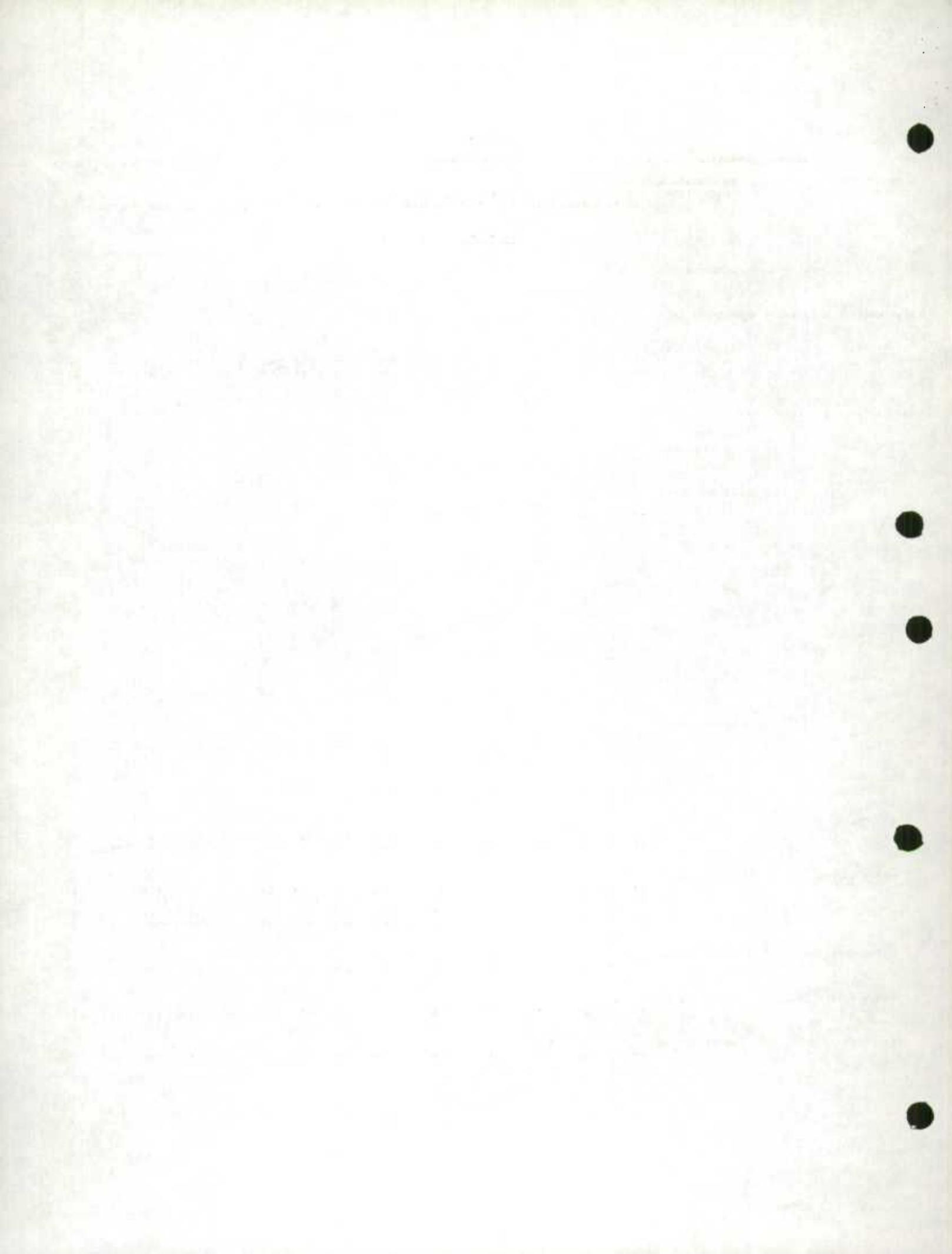


TABLE 4. - CONTINUED

COMPANY NAME PLANT NAME	INTERNAL COMBUSTION			PRIME MOVERS										MAIN GENERATORS						
	CO ORDINATES			YEAR	TYPE	FUEL	CYCLE	SUPER	NO OF	CHARGED CYLINDERS	RPM	HP	KW	YEAR	VOLTS	FREQ	KVA	POWER FACTOR	KW	
	LAT	LONG																		
LITTLE RAY ISLANDS	49 39	55 47		67	D D	D	4	N	6	1800	115	86	67	480	60	75	80	60		
MARKEVIEK	55 05	59 11		67	D D	D	4	N	4	1800	75	56	67	600	60	50	80	40		
MARYS HARBOUR	52 18	55 50		67	D D	D	4	N	4	1800	75	56	67	600	60	50	80	40		
MUD LAKE				67	D D	D	4	N	2	1200	24	18	67	600	60	15	80	12		
				67	D D	D	4	N	2	1200	24	18	67	600	60	15	80	12		
NORTHWEST RIVER	53 32	60 09		67	D D	D	4	N	8	1200	175	130	67	208	60	125	80	100		
				67	D D	D	4	N	8	1200	175	130	67	208	60	125	80	100		
PORT SAUNDERS	50 39	57 18		67	D D	D	4	N	6	1800	115	86	67	600	60	75	80	60		
RAMA	47 31	57 25		67	D D	D	4	N	6	1200	115	86	67	208	60	75	80	60		
				67	D D	D	4	N	6	1200	115	86	67	208	60	75	80	60		
				67	D D	D	4	N	6	1200	115	86	67	208	60	75	80	60		
RODDICKTON	50 52	56 08		67	D D	D	4	N	6	1800	115	86	67	600	60	75	80	60		
ST. ANTHONY	51 22	55 35		67	D D	D	4	N	6	720	720	540	67	2400	60	625	80	500		
ST. LUNAIRE	51 30	55 29		67	D D	D	4	N	4	1800	75	56	67	600	60	50	80	40		
				67	D D	D	4	N	4	1800	75	56	67	600	60	50	80	40		
TERRA NOVA	48 23	54 16		67	D D	D	4	N	6	1800	75	56	67	600	60	50	80	40		
				67	D D	D	4	N	6	900	75	56	67	600	60	50	80	40		
TERRENCEVILLE	47 42	54 43		67	D D	D	4	N	6	1200	115	86	67	208	60	75	80	60		
				67	D D	D	4	N	6	1200	115	86	67	208	60	75	80	60		

QUEBEC

COMMISSION HYDROELECTRIQUE DE QUEBEC

BLANC SARLON	51 26	57 08		67	D D	D	2	N	12	720	900	670	67	2400	60	750	80	600
HAVRE ST PIERRE	50 15	63 36		67	D D	D	4	N	16	720	1440	1075	67	4160	60	1250	80	1000
				67	D D	D	4	N	16	720	1440	1075	67	4160	60	1250	80	1000

JOHAN PEETZ	50 17	62 48		67	D D	D	4		8	1800	227	170	67	4160	60	194	80	155
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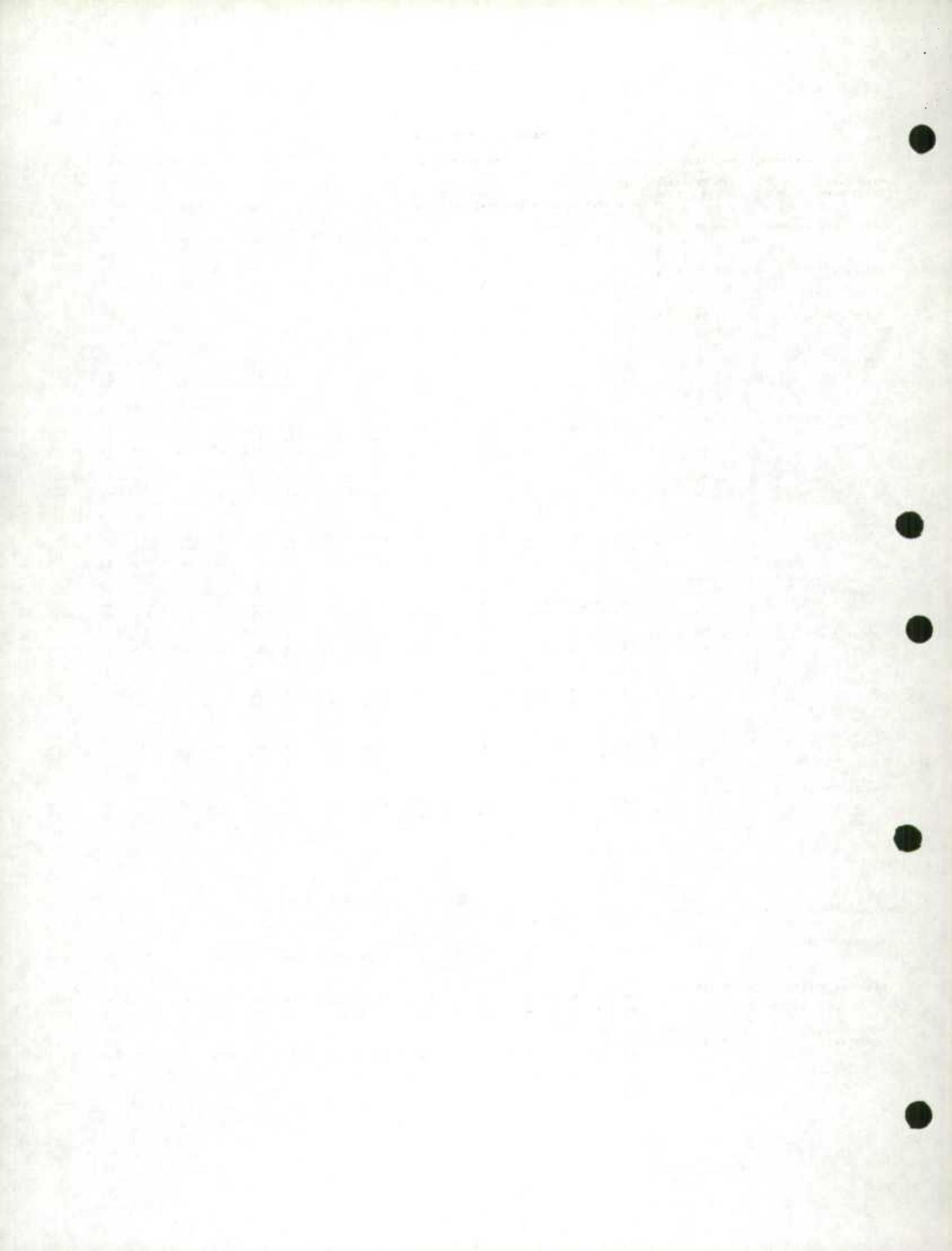


TABLE 4. - CONTINUED

COMPANY NAME PLANT NAME	INTERNAL COMBUSTION			PRIME MOVERS										MAIN GENERATORS				
	CO ORDINATES			YEAR	TYPE	FUEL	CYCLE	CHARGED CYLINDERS	NO OF CYLINDERS	RPM	HP	KW	YEAR	VOLTS	FREQ	KVA	POWER FACTOR	KW
	LAT	LONG																
LA ROMAINE				67	D	D	2	Y	4	1800	100	75	67	600	60	75	80	60
				67	D	D	2	Y	4	1800	100	75	67	600	60	75	80	60
LA TABATIERE	50	50	58 58	67	D	D							67	600	60	250	80	200
				67	D	D							67	600	60	315	80	250
NATASHQUAN	50	11	61 49	67	D	D			6	1800	200	150	67	4160	60	156	80	125
				67	D	D			6	1200	360	270	67	4160	60	312	80	250
PARENT	47	55	74 37	67									67			375	80	300
ST AUGUSTIN	48	48	71 56	67	D	D			6	1800	150	115	67	2400	60	145	80	115
QUEBEC CARTIER MINING CO																		
LAC JEANNINE	51	53	68 11	60	D	D	2	Y	16	720	1440	1000	60	4160	60	1250	80	1000
PORT AND TERMINAL	50	03	66 47	60	D	D	2	Y	16	720	1440	1000	60	4160	60	1250	80	1000
				60	D	D	2	Y	16	720	1440	1000	60	4160	60	1250	80	1000
ONTARIO																		
GANANOQUE ELECTRIC LIGHT & WATER SUPPLY CO																		
STATION 6	44	20	76 10	67	D	GD	4	Y	8	327	2000	1400	67	4160	60	1563	80	1250
				67	D	GD	4	Y	8	327	2000	1400	67	4160	60	1500	80	1200
ALBERTA																		
ALBERTA D.P.W.																		
INST OF TECH-CALGARY	51	03	114 05	67	S	G	4	N	12	1200	675	500	67	4160	60	625	80	500
CANADIAN UTILITIES LTD																		
FORT CHIPEWYAN	58	43	111 09	67	D	D	4	Y	12	1800	402	300	67	480	60	375	80	300
FORT MC MURRAY	56	46	118 23	67	D	D	4	Y	12	1200	711	500	67	2400	60	625	80	500

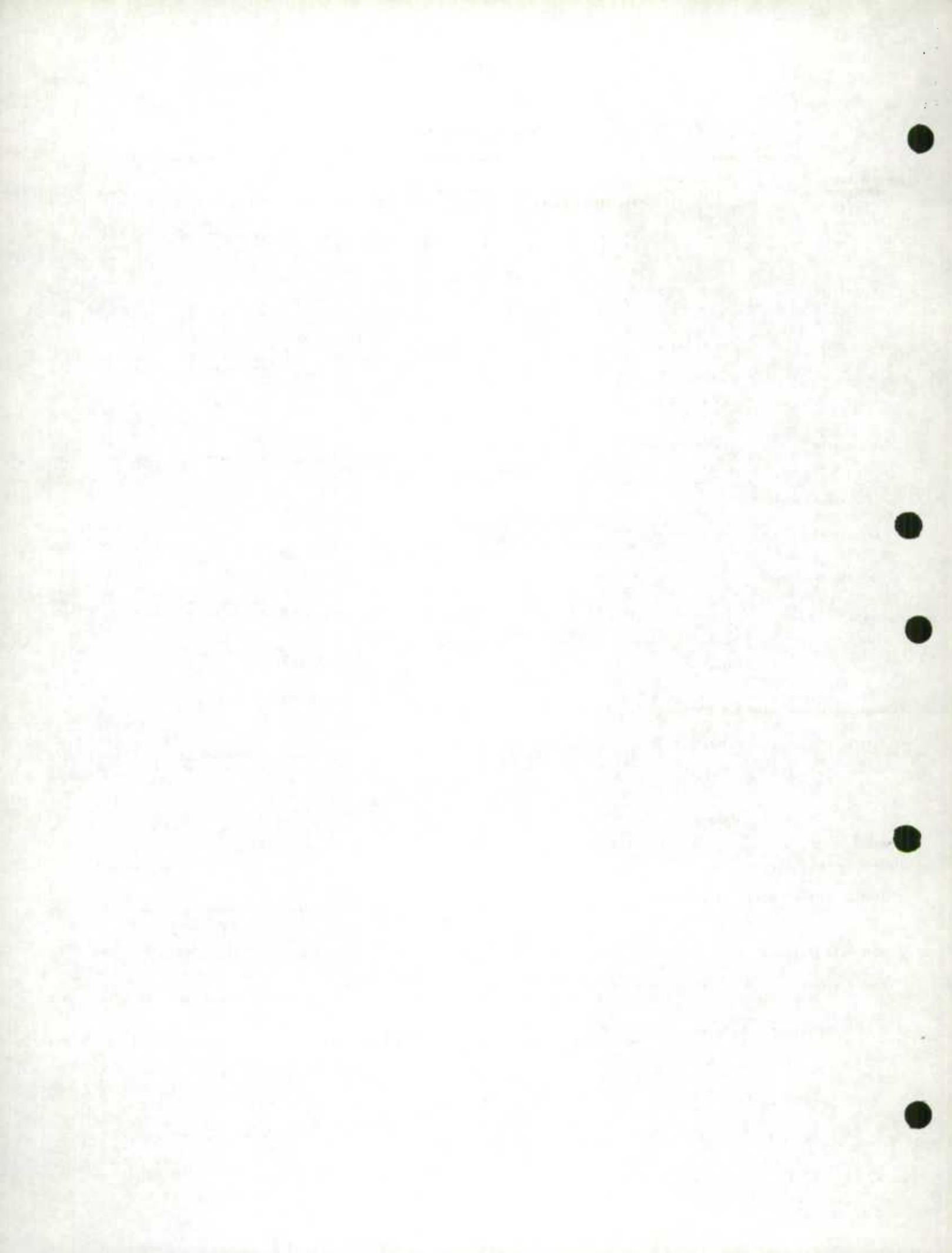


TABLE 4a - CONTINUED

COMPANY NAME PLANT NAME	INTERNAL COMBUSTION				PRIME MOVERS								MAIN GENERATORS						
	CO ORDINATES				YEAR	TYPE	FUEL CYCLE	SUPER CHARGED	NO OF CYLINDERS	RPM	HP	KW	YEAR	VOLTS	FREQ	KVA	POWER FACTOR	KW	
	LAT	LONG																	
NORTHLAND UTILITIES LTD.																			
ASSUMPTION	58 43 118 43				67	D D		4	N	6	900	138	75	67	440	60	.94	.80	75
					67	D D		4	N	6	900	109	75	67	440	60	.106	.80	75
					67	D D		4	N	6	900	128	75	67	550	60	.94	.80	75
HIGH LEVEL	58 28 117 08				67	D D		4	Y	12	1200	810	600	67	2400	60	.750	.80	600
					67	D D		4	Y	12	1200	810	600	67	2400	60	.750	.80	600
JASPER	52 53 118 05				67	D D		4	Y	4	1800	70	40	67	2300	60	1080	.80	850
JEAN D'OR PRAIRIE	58 23 115 04				67	D D		4	Y	4	1800	70	40	67	120	60	.50	.80	40
OVERLANDER	52 33 118 05				67	S G		4	N	6	1200	134	100	67	480	60	125	.80	100
MICONTAS	53 12 117 56				67	S G		4	Y	6	1236	350	250	67	480	60	312	.80	250
RAINBOW	58 30 119 29				67	D D		4	Y	12	1200	711	500	67	2400	60	625	.80	500
WAHASCA	56 00 113 53				67	D D		4	N	6	1200	335	250	67	480	60	312	.80	250

BRITISH COLUMBIA

BC HYDRO AND POWER AUTHORITY

ATLIN	59 34 133 42				67	D D		4	N	6	1800	240	150	67	2400	60	187	.80	150
WELLS	53 06 121 34				67	D D		4	N	6	1800	290	150	67	2400	60	187	.80	150
					67	D D		4	N	8	1200	240	150	67	2400	60	187	.80	150
MOBILE UNIT 98					67	D D		4	N	12	1200	795	500	67	2400	60	625	.80	500
MOBILE UNIT 101					67	D D		4	N	16	720	1440	1000	67	4160	60	1250	.80	1000
MOBILE UNIT 102					67	D D		4	N	16	720	1440	1000	67	4160	60	1250	.80	1000
MOBILE UNIT 103					67	D D		4	N	16	720	1440	1000	67	4160	60	1250	.80	1000

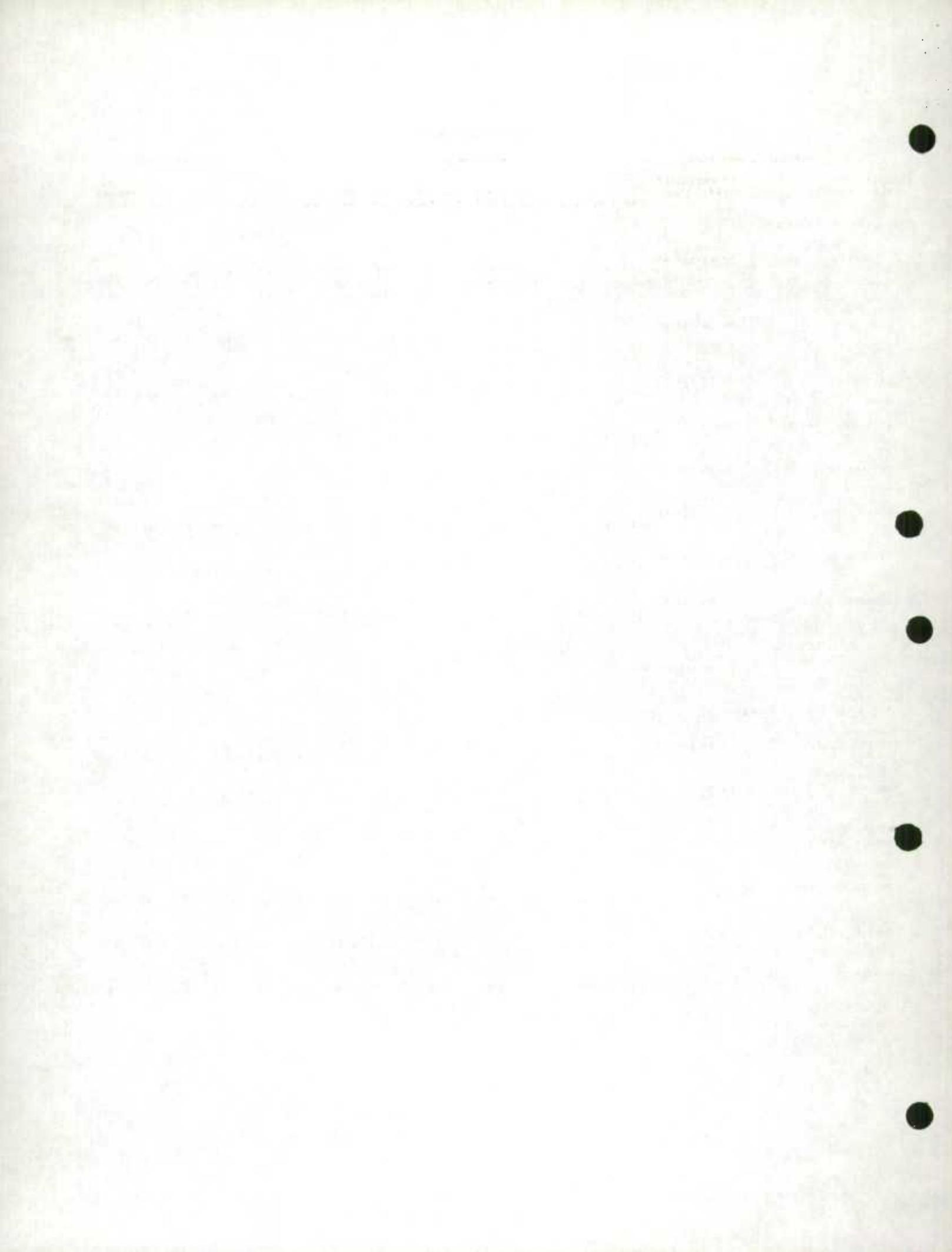


TABLE 4. - CONTINUED

COMPANY NAME PLANT NAME	INTERNAL COMBUSTION			PRIME MOVERS								MAIN GENERATORS					
	CO ORDINATES		LAT LONG	YEAR	TYPE	FUEL CYCLE	NO OF		RPM	HP	KW	YEAR	VOLTS	FREQ	KVA	POWER FACTOR	KW
	SUPER	CHARGED CYLINDERS															
NORTHLAND UTILITIES LTD																	
ASSUMPTION	58 43 118 43			67	D D	4	N	6	900	138	75	67	440	60	.94	.80	.75
				67	D D	4	N	6	900	109	75	67	440	60	.106	.80	.75
				67	D D	4	N	6	900	128	75	67	550	60	.94	.80	.75
HIGH LEVEL	58 28 117 08			67	D D	4	Y	12	1200	810	600	67	2400	60	.750	.80	.600
				67	D D	4	Y	12	1200	810	600	67	2400	60	.750	.80	.600
JASPER	52 53 118 05			67	D D	4	Y	4	1800	70	40	67	2300	60	1080	.80	.850
JEAN D OR PRAIRIE	58 23 115 04			67	D D	4	Y	4	1800	70	40	67	120	60	.50	.80	.40
OVERLANDER	52 33 118 05			67	S G	4	N	6	1200	134	100	67	480	60	.125	.80	.100
PACIFIC	53 12 117 56			67	S G	4	Y	6	1236	350	250	67	480	60	312	.80	.250
RAINBOW	58 30 119 29			67	D D	4	Y	12	1200	711	500	67	2400	60	.625	.80	.500
WAHASCA	56 00 113 52			67	D D	4	N	6	1200	335	250	67	480	60	312	.80	.250
BRITISH COLUMBIA																	
BC HYDRO AND POWER AUTHORITY																	
ATLIN	59 34 133 42			67	D D	4	N	6	1800	248	150	67	2400	60	.187	.80	.150
WELLS	53 06 121 34			67	D D	4	N	6	1800	290	150	67	2400	60	.187	.80	.150
MOBILE UNIT 99				67	D D	4	N	12	1200	795	500	67	2400	60	.625	.80	.500
MOBILE UNIT 101				67	D D	4	N	16	720	1440	1000	67	4160	60	1250	.80	1000
MOBILE UNIT 102				67	D D	4	N	16	720	1440	1000	67	4160	60	1250	.80	1000
MOBILE UNIT 103				67	D D	4	N	16	720	1440	1000	67	4160	60	1250	.80	1000

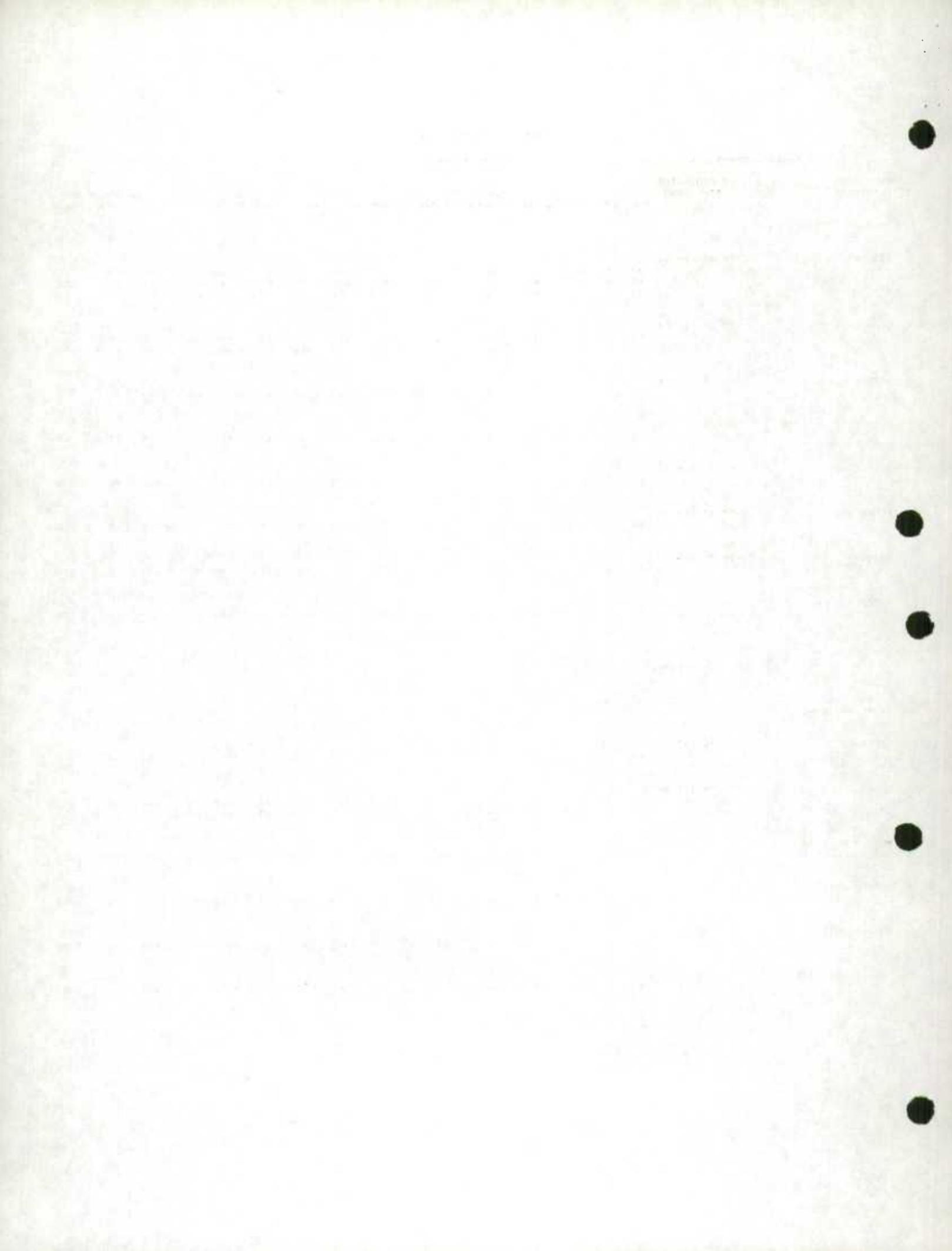


TABLE 4, - CONTINUED

COMPANY NAME PLANT NAME	INTERNAL COMBINATION				PRIME MOVERS								MAIN GENERATORS							
	CO-ORDINATES LAT LONG		YEAR	TYPE	FUEL CYCLE	SUPER CHARGED	NO OF CYLINDERS	RPM	HP	KW	YEAR	VOLTS	FREQ	KVA	POWER FACTOR	KW				
CANADIAN FOREST PRODUCTS LTD																				
ENGLEWOOD	50 32 126 52	67	D	D	4	N	6	1400	134	100	67	220	60	125	80	100				
CASSIAR ASBESTOS CORP LTD																				
CASSIAR	59 17 129 48	67	D	D	4	Y	8	514	1450	900	67	2600	50	1125	80	900				
GRANDUC MINES LTD																				
TIDE CAMP	56 14 130 04	67	D	D	4	N	12	1200	795	593	67	2400	60	625	80	900				
WESSROB MINES LTD TASHA																				
	62 46 132 00	67	D	DR	4	Y	12	450	33000	2210	67	4160	60	2770	80	2210				
		67	D	DR	4	Y	12	450	33000	2210	67	4160	60	2770	80	2210				
		67	D	DR	4	Y	12	450	33000	2210	67	4160	60	2770	80	2210				
		67	D	DR	4	Y	12	450	33000	2210	67	4160	60	2770	80	2210				
		67	D	DR	4	Y	12	450	33000	2210	67	4160	60	2770	80	2210				
WEST Kootenay Power & Light Co Ltd																				
MOBILE UNIT		63	S	D	2	Y	4	1600	260	194	63	460	60	250	80	200				
NORTHWEST TERRITORIES																				
IMPERIAL OIL LTD																				
NORMAN HILLS	65 17 126 51	67	D	D	4	Y	12	1200	625	500	67	230	60	375	80	300				
WESTERN CANADA POWER COMM																				
AKLAWEK																				
	68 14 135 01	53	D	D	4	N	5	500	300	200	53	220	60	250	80	200				
		53	D	D	2	Y	5	500	300	200	53	220	60	250	80	200				
		53	D	D	4	N	6	1350	40	30	53	220	60	39	80	30				
		53	D	D	4	N	6	1350	40	30	53	220	60	25	90	23				
		53	D	D	4	Y	4	1800	100	60	53	220	60	75	80	60				
CAMBRIDGE BAY																				
	69 07 105 03	67	D	D	4	Y	8	600	480	250	67	4180	60	312	80	250				
		67	D	D	4	Y	8	600	480	250	67	4180	60	312	80	250				
COPPERMINE																				
	67 49 115 06	67	D	D	4	N	6	600	360	200	67	4160	60	250	80	200				
		67	D	D	4	N	6	600	360	200	67	4160	60	250	80	200				
		67	D	D	4	N	6	600	360	200	67	4160	60	250	80	200				

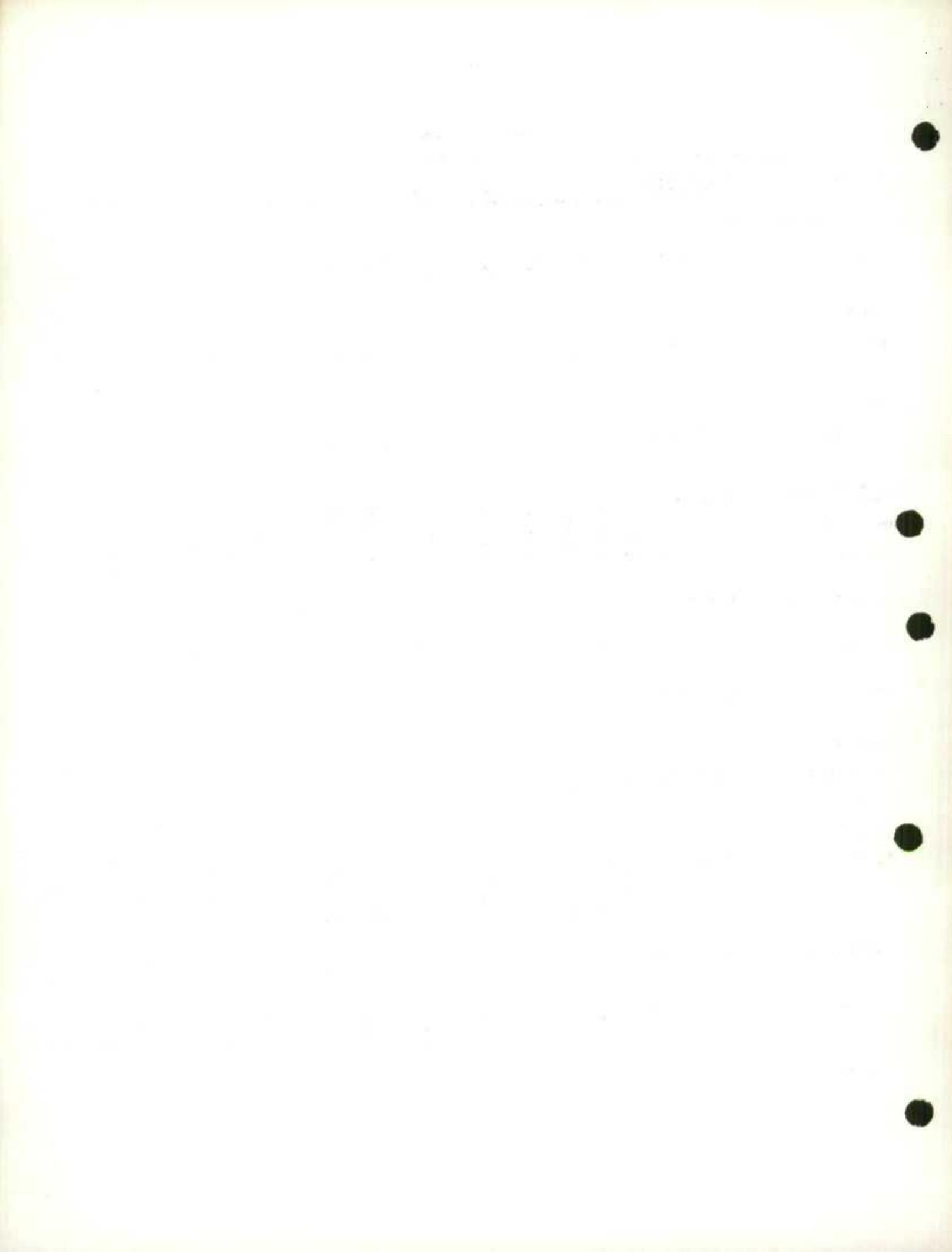


TABLE 4. - CONTINUED.

GENERATOR NAME PLANT NAME	INTERNAL COMBUSTION			PRIME MOVERS								MAIN GENERATORS							
	COORDINATES		LAT	LONG	YEAR	TYPE	FUEL	CYCLE	NO. OF CHARGED CYLINDERS	RPM	HP	KW	YEAR	VOLTS	FREQ	KVA	POWER FACTOR	Kw	
	D	D																	
FORT MC PHERSON	67	26	134	53		D	D	4	Y	8	600	490	250	2400	60	313	.90	250	
						D	D	4	Y	8	610	480	250	2400	60	313	.80	250	
						D	D	4	N	8	600	125	100	2400	60	125	.80	100	
						D	D	4	N	8	600	125	100	2400	60	125	.80	100	
INUVIK	68	21	113	43	67	D	D	4	Y	6	400	1414	1000	60	4160	60	1750	.80	1000
YUKON																			
NORTHERN CANADA POWER COMM																			
DAKSON	64 03 139 25			67	D	D	4	Y	8	600	490	250	67	4160	60	312	.80	250	
				67	D	D	4	Y	8	600	480	250	67	4160	60	312	.80	250	
				67	D	D	4	Y	8	600	490	250	67	4160	60	312	.80	250	
NUNAVUT ELECTRICAL CO LTD																			
CARMACKS	62 06 136 19			67	D	D	4	Y	6	1800	319	200	67	2400	60	250	.80	200	
				67	D	D	4	Y	6	1800	319	200	67	2400	60	250	.80	200	
PAINE'S JUNCTION																			
ELD CROW	60 45 137 30			67	D	D	4	Y	6	1200	245	150	67	2300	60	188	.80	150	
				67	D	D	4	Y	6	1800	118	60	67	240	60	94	.80	60	
ROSS RIVER	62 00 132 27			67	D	D	4	Y	6	1800	270	100	67	2400	60	125	.80	100	
				67	D	D	4	Y	6	1800	319	200	67	2300	60	125	.80	200	
SWIFT RIVER	60 00 131 15			67	D	D	4	N	6	1200	190	100	67	2400	60	125	.80	100	
				67	D	D	4	N	6	1200	190	100	67	2400	60	125	.80	100	
TETSLIN																			
WATSON LAKE	60 07 132 44			67	D	D	4	Y	6	1200	330	250	67	2400	60	313	.80	250	
				67	D	D	4	N	8	900	139	90	67	2400	60	112	.80	90	
WATSON LAKE	60 07 132 44			67	D	D	4	Y	12	1200	528	350	67	2400	60	438	.80	350	
				67	D	D	4	N	8	900	139	90	67	2400	60	112	.80	90	
				67	D	D	4	N	8	900	139	90	67	2400	60	112	.80	90	

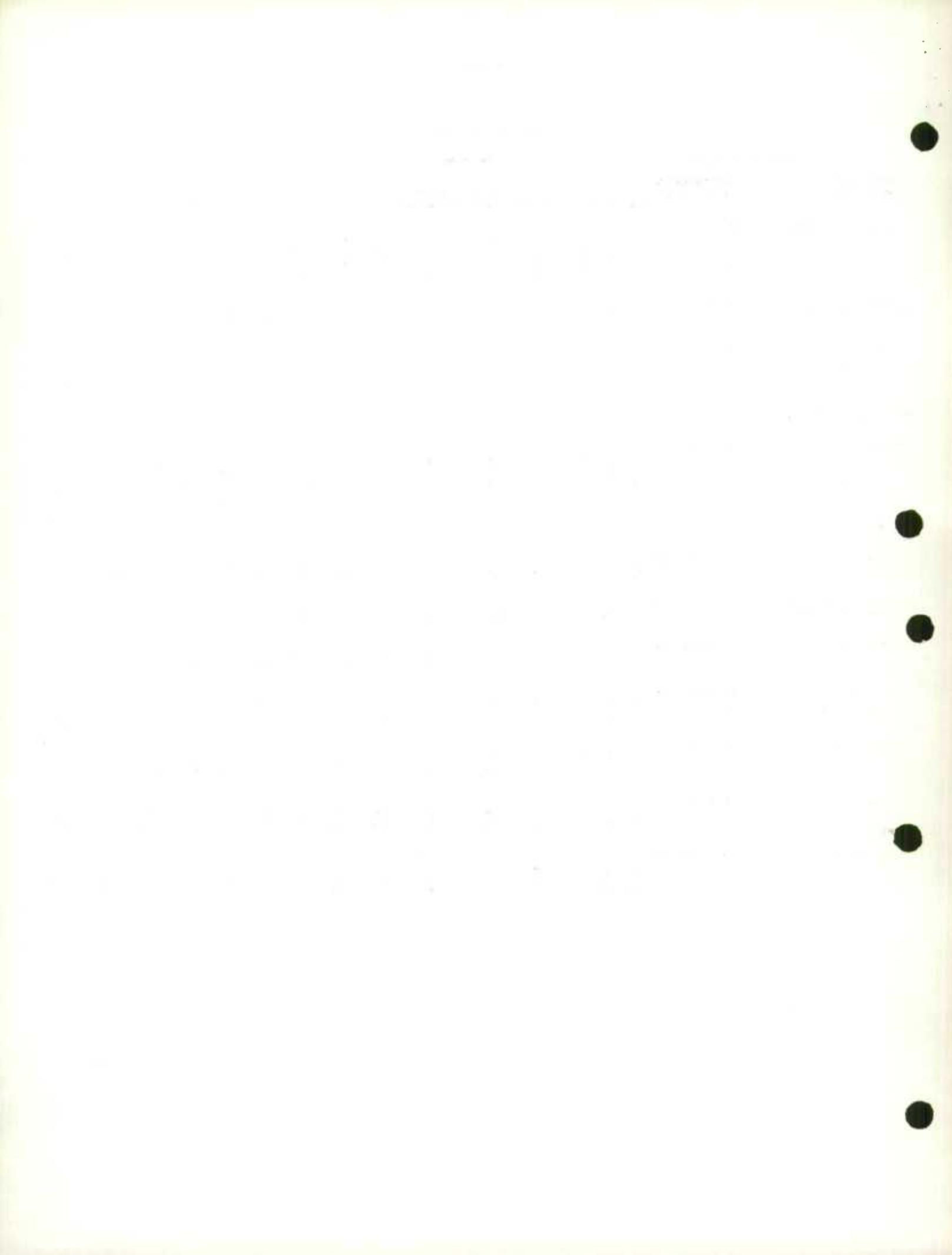


TABLE 4. - CONTINUED

INTERNAL COMBUSTION				PRIME MOVERS										MAIN GENERATORS			
COMPANY NAME PLANT NAME	CO ORDINATES LAT LONG			SUPER	NO OF									POWER			
	YEAR	TYPE	FUEL CYCLE	CHARGED	CYLINDERS	RPM	HP	KW	YEAR	VOLTS	FREQ	KVA	FACTOR	KW			

CHANGES

NEWFOUNDLAND

FEDERAL DEPT OF TRANSPORT (ACQUIRED FROM DLPT OF NATIONAL DEFENCE)

GOOSE RAY	53 19	60 24		52	D	D	4	Y	8	360	1200	750	52	4160	60	930	80	750
				52	D	D	4	Y	8	360	1200	750	52	4160	60	930	80	750
				52	D	D	4	Y	8	360	1200	750	52	4160	60	930	80	750
				52	D	D	4	Y	8	360	1200	750	52	4160	60	930	80	750
				59	D	D	2	Y	16	720	1440	1000	59	4160	60	1250	80	1000

NELPACK FISHERIES LTD (FORMERLY OWNED BY FISHERY PRODUCTS LTD)

ILE AUX MORTS	47 36	59 01		55	D	D	4	N	4	1200	105	60	55	220	60	75	80	60
				55	D	D	4	N	4	1200	75	40	55	220	60	50	80	40
				55	D	D	4	N	4	1800	105	60	55	220	60	75	80	60

QUEBEC

ELECTRIQUE DE MONT LAURIER LTÉE (NOW OWNED BY THE COMMISSION HYDROELECTRIQUE DE QULBEC)

MONT LAURIER	46 33	75 30		61	D	D	2		8	1200	565	350	61	2400	60	433	80	350
				61	D	D	2		8	1200	565	350	61	2400	60	433	80	350
				62	D	D	2		12	1200	900	600	62	2400	60	750	80	600

VAL HARRETTE	46 30	75 22		63	D	D	4	Y	6	1200	253	160	63	50	60	240	80	160
				64	D	D	4	Y	6	1200	190	125	64	50	60	156	80	125

BRITISH COLUMBIA

MINING LTD

BLUERELL MINE	49 46	116 52		47	D	D	4	N	6	600	120	70	47	600	60	20	80	70
				47	D	D	4	N	6	600	120	70	47	600	60	20	80	70
				57	D	D	2	Y	6	1800	300	150	57	600	60	120	80	150

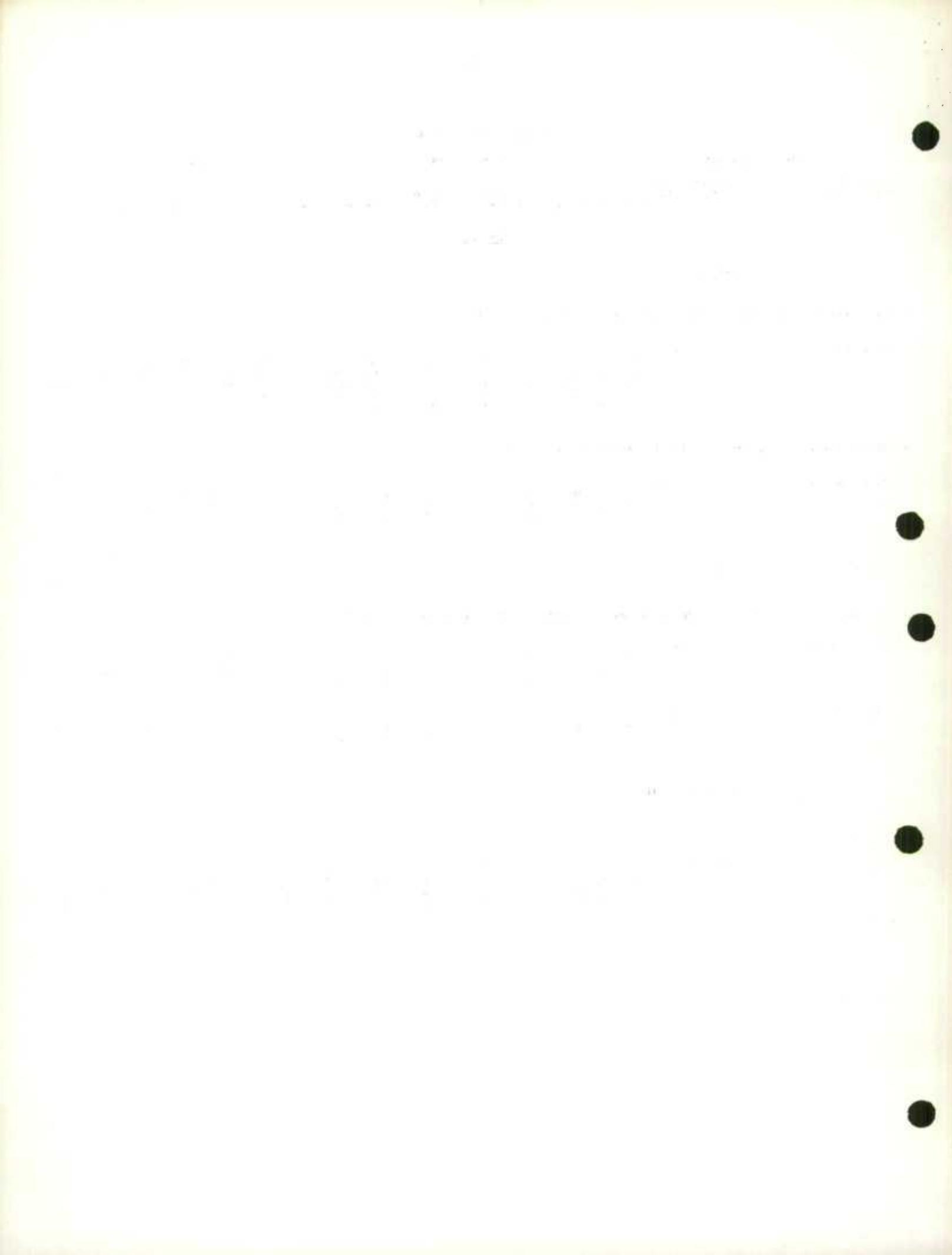


TABLE 4. - CONTINUED

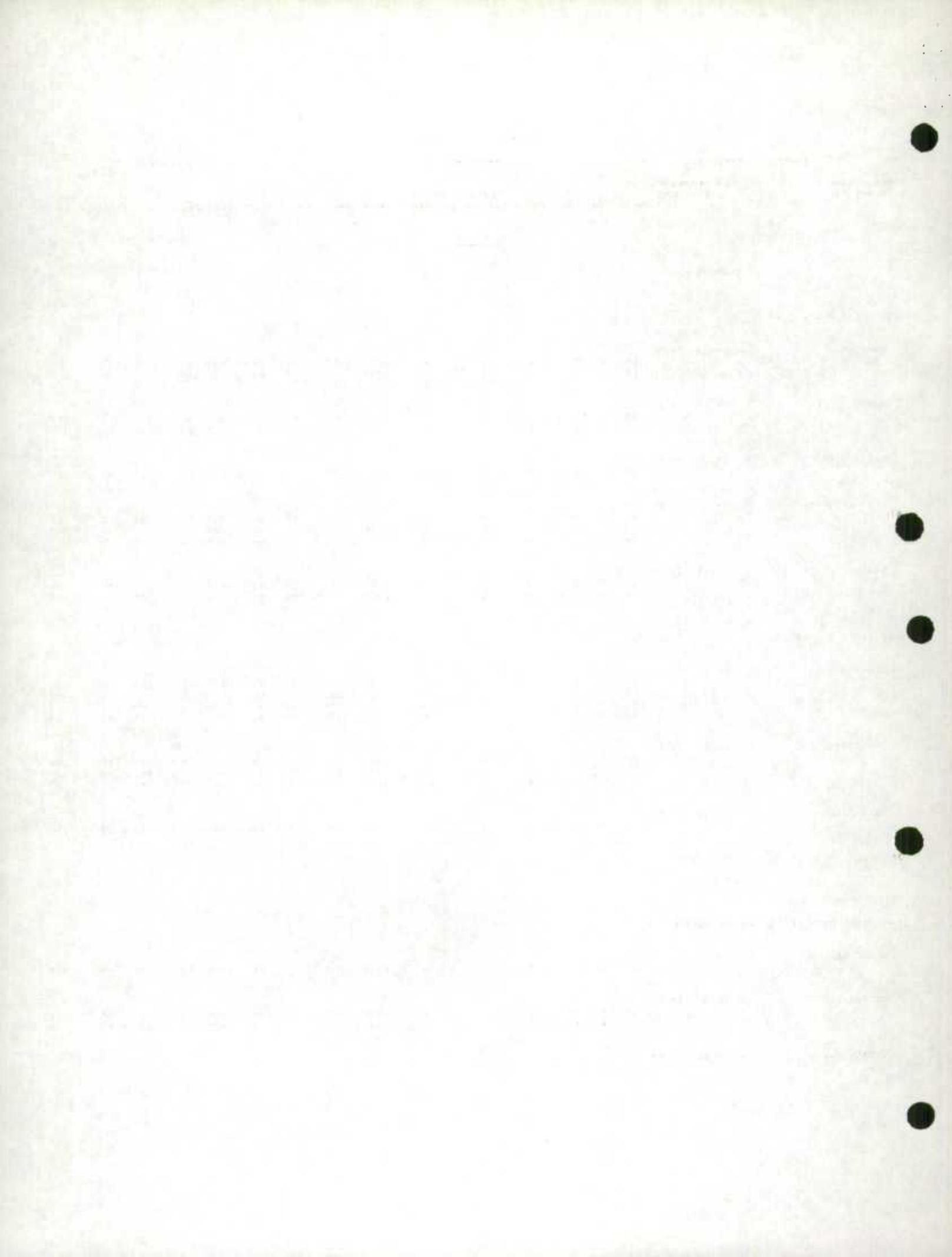


TABLE 4. - CONTINUED

INTERNAL COMBUSTION				PRIME MOVERS								MAIN GENERATORS						
COMPANY NAME PLANT NAME	CO-ORDINATES		LAT LONG	YEAR	TYPE	FUEL	CYCLE	CHARGE	NO OF CYLINDERS	RPM	HP	KW	YEAR	VOLTS	FREQ	KVA	POWER FACTOR	KW
	62	D	0	?					8	1800	200		62	4160	60	195	.80	155
	64	D	0	2					6	1800	150		64	600	60	250	.80	200

MANITOBA

MANITOBA HYDRO

SELKIRK 50 09 96 52 60 D D 4 N 16 1800 495 350 60 600 60 436 80 350

ALBERTA

CALGARY PCWFR LTD

CANADIAN UTILITIES LTD.

56 46 118 23 64 0 0 4 4 12 1200 528 350 64 2400 60 438 80 350

NORTHLAND UTILITIES LTD.

5A 43 11B 43
 66 D D 4 Y 4 1800 70 40 66 120 60 50 80 40
 66 D D 4 Y 4 1800 55 40 66 220 60 50 80 40
 66 D D 4 Y 4 1800 70 40 66 120 60 50 80 40

52 53 118 0% 45 D D 2 M 2 300 150 90 45 2400 60 120 80 96

53 12 117 56
66 S G 4 N 6 1200 134 100 66 480 60 125 80 100

56 00 113 53

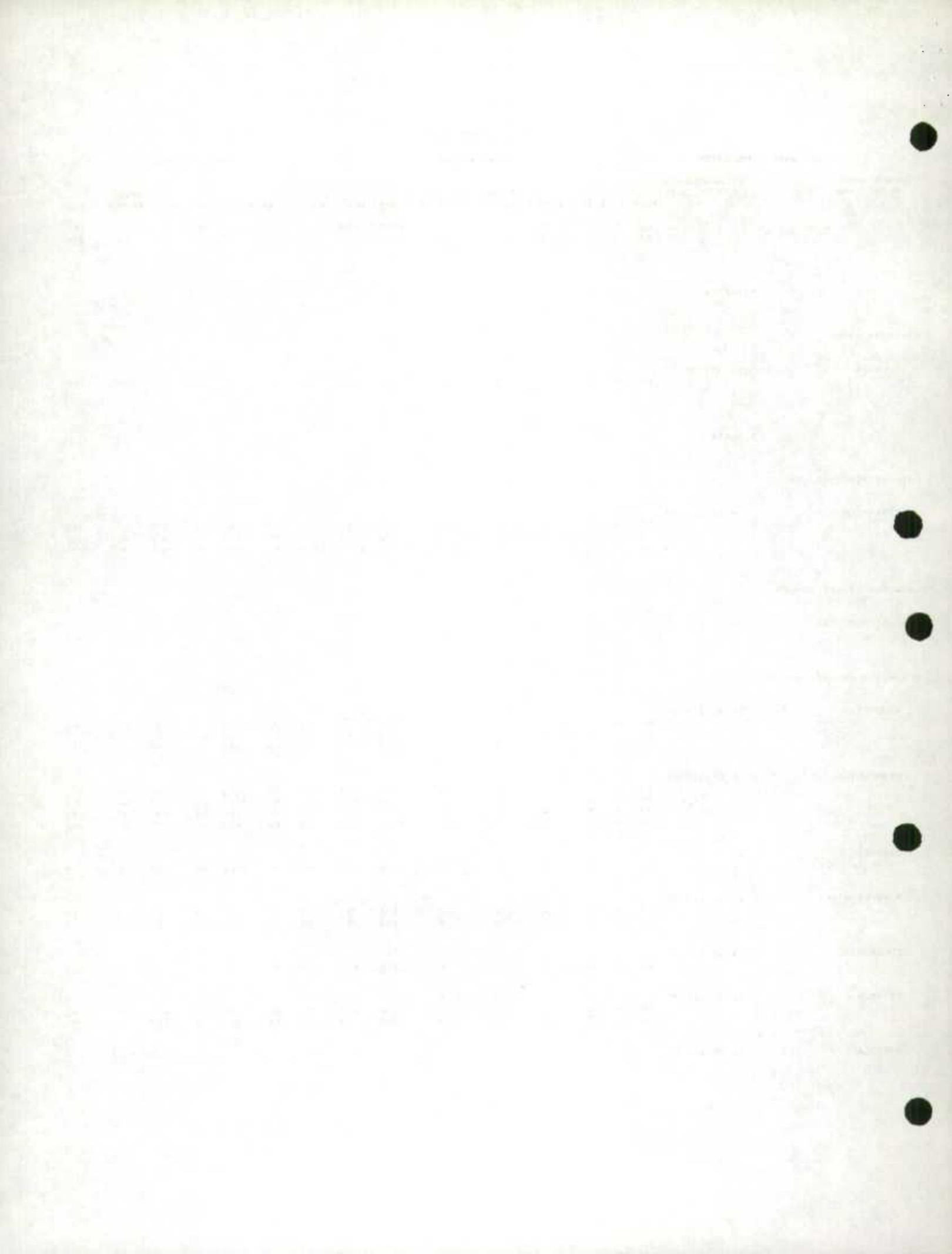


TABLE 4. - CONTINUED

COMPANY NAME PLANT NAME	INTERNAL COMBUSTION				PRIME MOVERS										MAIN GENERATORS						
	CO-ORDINATES				YEAR	TYPE	FUEL CYCLE	CHARGED CYLINDERS	NO. OF CYLINDERS	RPM	HP	KW	YEAR	VOLTS	FREQ	KVA	POWER FACTOR	KW			
	LAT	LONG																			
	51	0	D	4	N	6	900	138	75	51	440	60	94	P0	75						

BRITISH COLUMBIA

ALUMINUM CO OF CANADA LTD

KITIMAT	54 00 128 42	59 D D	2	Y	16	720	1440	1074	59	2400	60	1250	80	P0	1000
		59 D D	2	Y	16	720	1440	1074	59	2400	60	1250	80	P0	1000
		59 D D	2	Y	16	720	1440	1074	59	2400	60	1250	80	P0	1000

BC HYDRO AND POWER AUTHORITY

ALERT BAY	82 30 62 20	61 D D	4	N	6	1800	290	150	61	2400	60	187	P0	150
BELLA COOLA	52 22 126 46	56 D D	4	Y	6	1800	248	150	56	2400	60	187	P0	150
QUEEN CHARLOTTE	53 16 132 05	59 D D	4	N	8	900	146	100	55	2400	60	120	80	100
		59 D D	4	Y	6	1800	180	150	58	2400	60	188	80	150
		59 D D	4	N	6	1800	76	60	60	240	60	75	80	60

CANADIAN FOREST PRODUCTS LTD

ENGLEWOOD	50 32 126 52	46 D D	4	N	6	1200	45	30	46	220	60	38	P0	30
		46 D D	4	N	4	1200	56	25	46	220	60	33	P0	25

CARIBOO GOLD QUARTZ MINING CO LTD

WELL'S	53 06 121 34	36 D D	4	N	8	400	600	300	36	460	60	438	P0	350
		36 D D	4	N	7	400	525	267	36	460	60	375	P0	300
		36 D D	4	N	6	400	450	210	36	460	60	312	P0	250
		37 D D	4	N	7	400	525	267	37	460	60	375	P0	300
		40 D D	4	N	6	600	180	110	40	460	60	156	P0	125
		47 D D	4	N	8	720	250	150	47	460	60	187	P0	150
		54 D D	4	N	6	450	330	200	54	460	60	312	P0	250
		55 D D	4	N	6	450	220	140	55	460	60	188	P0	150

EMPIRE DEVELOPMENT

PORT MC NEILL	50 35 127 06	57 D D	4	Y	8	1200	308	200	57	240	60	250	P0	200
		57 D D	4	Y	8	1200	308	200	57	240	60	250	P0	200
		57 D D	4	Y	8	1200	308	200	57	240	60	250	P0	200
		57 D D	4	Y	6	1800	195	150	57	240	60	188	P0	150

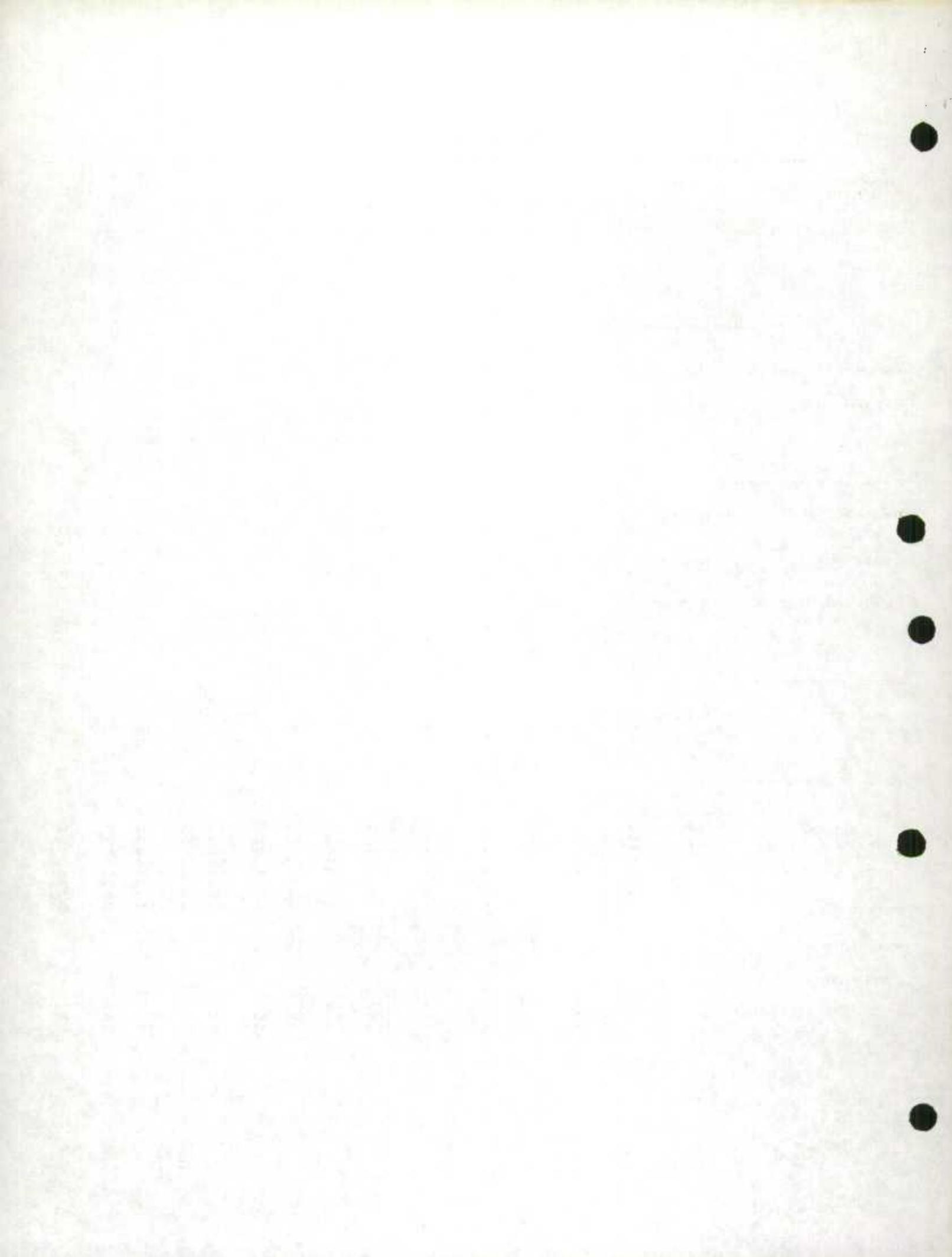


TABLE 4. - CONCLUDED

INTERNAL COMBUSTION				PRIME MOVERS								MAIN GENERATORS							
COMPANY NAME PLANT NAME	CO ORDINATES		LAT LONG	SUPER	NO OF											POWER			
	YEAR	TYPE	FUEL CYCLE	CHARGED	CYLINDERS	RPM	HP	KW	YEAR	VOLTS	FREQ	KVA	FACTOR	KW					
NAVER CREEK SAWMILLS LTD																			
NAVER	56	0	0	4	N	2	1800	22	10	56	115	60	13	80	10				

NORTHWEST TERRITORIES

NORTHERN CANADA POWER COMM

FORT SMITH	60 00 111 53	60	0	0	4	Y	6	400	1414	1000	60	4160	60	1250	80	1000
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YUKON

YUKON ELECTRICAL CO LTD

GARMACKS	62 22 140 52	66	0	0	4	Y	6	1800	270	100	66	2400	60	125	80	100
OLD CROW	67 35 139 50	64	0	0	4	Y	4	2400	56	40	64	240	60	50	80	40
ROSS RIVER	62 00 132 27	66	0	0	4	N	6	1200	190	100	66	2400	60	125	80	100
		66	0	0	4	Y	4	1800	118	60	66	120	60	94	80	60
TESLIN	60 10 132 44	62	0	0	4	N	6	1200	190	100	62	2400	60	125	80	100
		66	0	0	4	Y	6	1800	319	200	66	2300	60	250	80	200
WATSON LAKE	60 07 128 48	63	0	0	4	Y	6	1200	245	150	63	2300	60	187	80	150
		65	0	0	4	Y	6	1200	335	250	65	2400	60	312	80	250

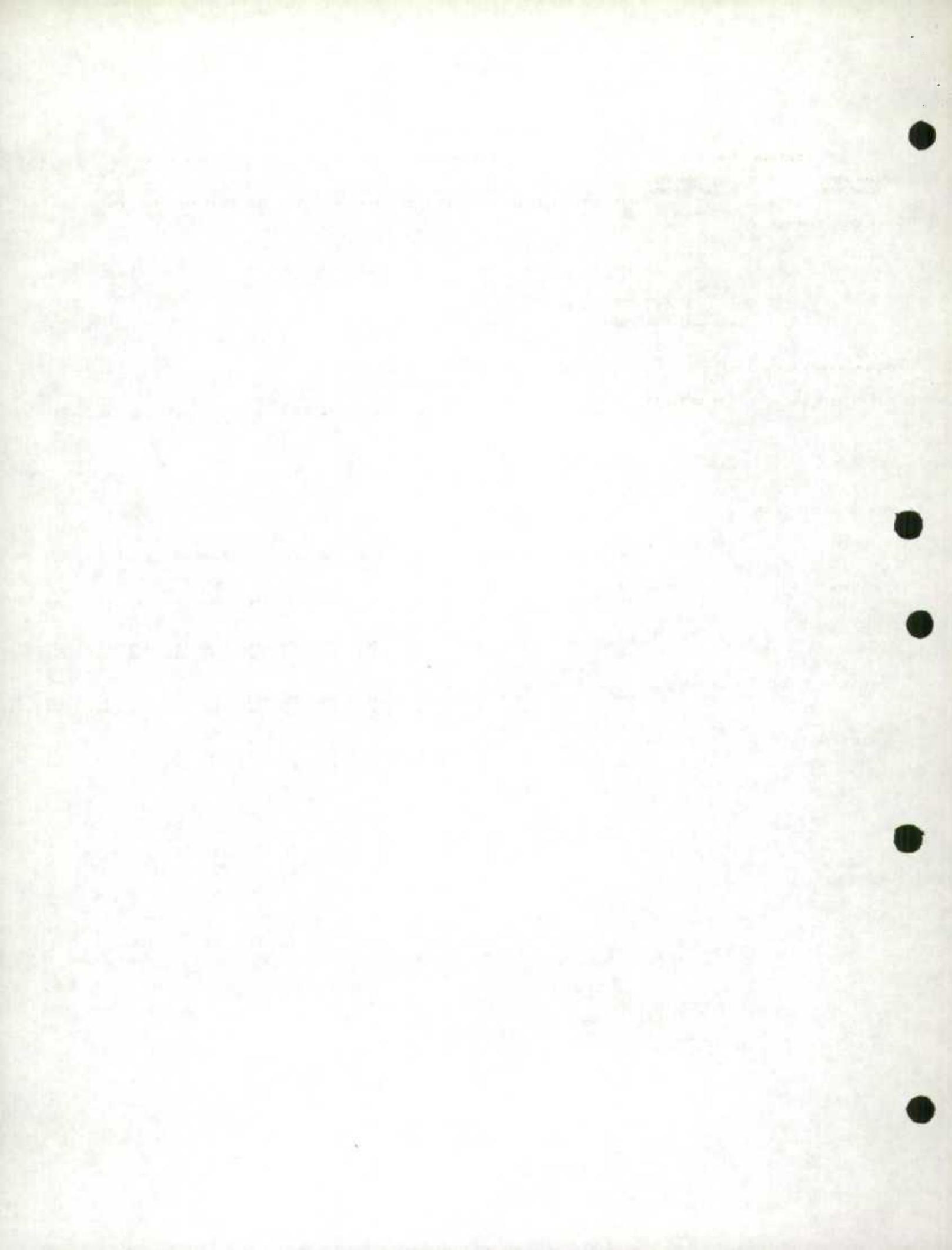


TABLE 5.

CAG TURBINE				MAIN TURBINES						MAIN GENERATORS					
COMPANY NAME PLANT NAME	CO ORDINATES LAT LONG	FUEL YEAR	TURBINE CYCLE	INLET TEMP F	PRESSURE RATIO	SHAFTS NO	RPM	KW CAPACITY AT AMBIENT O F	COOL -ANT 80 F	FREQ YEAR	VOLTS	POWER FACTOR KVA	KW		

ADDITIONS

ONTARIO

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

DETWEILER	42 43 80 33														
		67 0	S	1450	6.9/1	1	4912	19500	14250	67	A	13500	60	19200	85
		67 0	S	1450	6.9/1	1	4912	19500	14250	67	A	13500	60	19200	85
		67 0	S	1450	6.9/1	1	4912	19500	14250	67	A	13500	60	19200	85
		67 0	S	1450	6.9/1	1	4912	19500	14250	67	A	13500	60	19200	85
J CLARK KEITH	42 17 83 06														
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	2400	60	8820	85
LAKEVIEW	43 34 79 33														
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	4160	60	8820	85
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	4160	60	8820	85
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	4160	60	8820	85
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	4160	60	8820	85
COMBINATION	42 49 82 26														
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	4160	60	8820	85
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	4160	60	8820	85
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	4160	60	8820	85
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	4160	60	8820	85
RICHARD L. STEPHEN	43 39 79 36														
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	4160	60	8820	85
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	4160	60	8820	85
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	4160	60	8820	85
		67 0	S	1130	5.5/1	2	7500	7450	5350	67	A	4160	60	8820	85

MANITOBA

MANITOBA HYDRO SELKIRK	50 09 96 52															
		67 K(1) - S		1060	2.4/1	2	6200	10000	12260	9500	67	A	4160	60	14000	85

SASKATCHEWAN

SASKATCHEWAN POWER CORP

SUCCESS	50 26 108 17															
		67 G	S	1150	2.7/1	2		9200	15000	9500	67	A	13800	60	14900	80
		67 G	S	1150	2.7/1	2		9200	15000	9500	67	A	13800	60	14800	80

(1) KEROSENE.

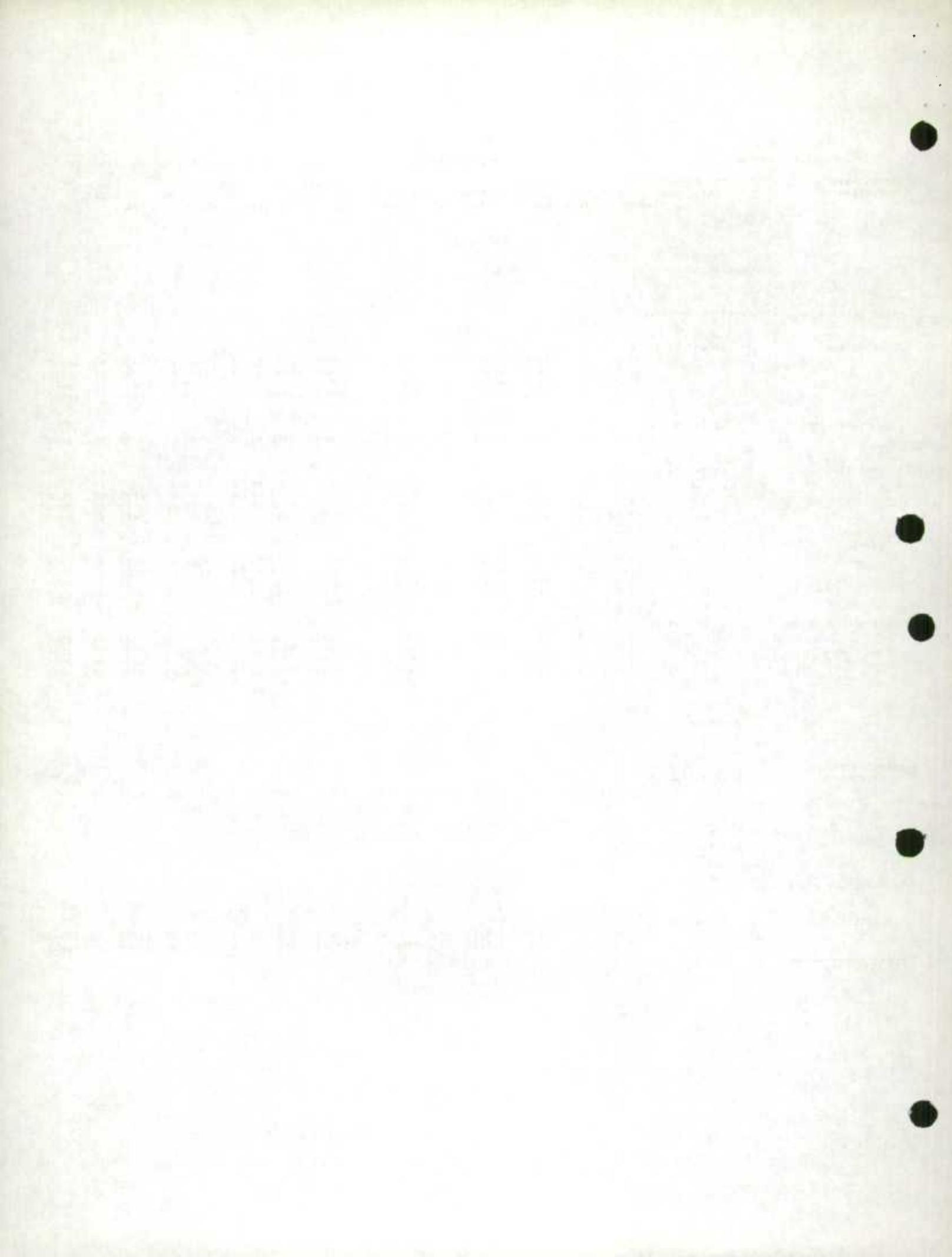


TABLE 5. - CONCLUDED

COMPANY NAME PLANT NAME	GAS TURBINE		MAIN TURBINES						MAIN GENERATORS					
	CO ORDINATES	X	LAT	LONG	FULL	TURBINE	INLET	PRESSURE	SHAFTS	KW CAPACITY	COLD	-ANT	FREQ	POWER
				YEAR	CYCLE	TEMP F	RATIO	NO	0 F	80 F	YEAR	VOLTS	KVA	KW

BRITISH COLUMBIA

BC HYDRO AND POWER AUTHORITY

MOBILE UNIT 99	67 60	S	1400	3.4/1	2	7500	7500	5000	67	A	12500	60	7500	80	6000
MOBILE UNIT 100	67 60	S	1400	3.4/1	2	7500	7500	5000	67	A	4160	60	7500	80	6000

~~DELETIONS~~

NEWFOUNDLAND

BILWATER'S NEWFOUNDLAND LTD.

CORSAIR, FREDON	43 57	N	57 57	66 0	S	1112		1	5000	25000	20000	60	A	2600	90	31250	85	25000
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