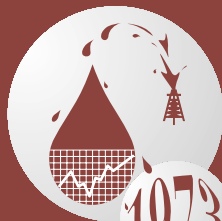
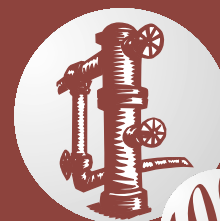
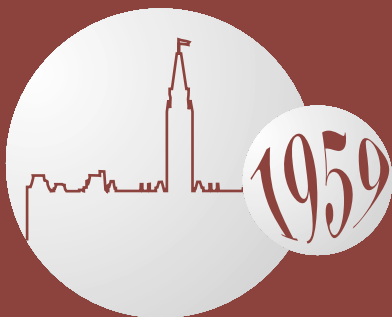
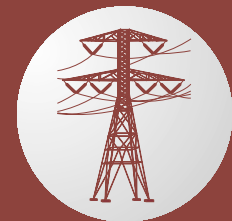


National Energy Board



Office national
de l'énergie



1999 Annual Report

Appendices

The cover of the 1999 Annual Report celebrates the 40th anniversary of the establishment of the National Energy Board. From its formation in 1959, through four decades of change in Canadian energy and a move from Ottawa to Calgary, the Board has made decisions that provide real benefits to Canadians.

Throughout its history, the National Energy Board has played many roles. Initially, it acted as a promoter of Canadian energy in new markets. Later, it played a key role as part of the prescriptive federal involvement in the energy sector. Most recently, the Board has worked in partnership with the energy industry and consumers to move away from adjudication towards more negotiation.

The Board has been involved in a number of major turning points in the development of the Canadian energy industry. Examples include the first pipeline toll hearing in 1971, approval of the northern pipeline in 1977, issuing guidelines for negotiated toll settlement in 1988, and the opening of a new supply basin on the east coast in 1997. These milestones serve as reminders of how the National Energy Board has risen to the challenges presented it in the past and as models for meeting challenges in the new millennium.

Cover design by Donna Dunn.



**1999
Annual Report**

Appendices

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A1. Crude Oil and Equivalent Supply and Disposition

(thousand cubic metres per day)

Supply	1995	1996	1997	1998	1999 ^(e)
Canadian Production ^(a)	310.4	317.0	331.5	347.8	332.4
Imports ^(b)	93.9	108.6	121.1	122.4	135.7
Total Supply^(d)	404.3	425.6	452.6	470.2	468.1
Disposition					
Domestic ^(b)	240.2	253.3	264.2	253.2	267.1
Exports ^(c)	168.9	178.4	193.7	213.5	195.5
Total Disposition^(d)	409.1	431.7	457.9	466.7	462.6

- a) Source: NEB
b) Source: Statistics Canada
c) Source: NEB Form 306 - Crude Oil Exports
d) Total supply does not equal total disposition due to inventory changes, etc.
e) Estimate

A2. Estimated Established Reserves of Crude Oil and Bitumen at 31 December 1998

(million cubic metres)

Conventional Crude Oil	Initial	Remaining
British Columbia ^(a)	116.3	26.2
Alberta ^(b)	2 490.1	315.2
Saskatchewan ^(c)	716.7	190.1
Manitoba ^(d)	37.4	4.2
Ontario ^(e)	14.1	2.0
NWT and Yukon:		
Arctic Island & Eastern Arctic Offshore ^(f)	0.5	0.0
Mainland Territories - Norman Wells	38.0	9.8
Nova Scotia ^(d) - Cohasset and Panuke	7.1	0.4
Newfoundland ^(d) - Hibernia	106.0	102.0
Total	3 526.2	649.9
Crude Bitumen		
Oil Sands - Upgraded Crude ^(b)	570.0	450.0
Oil Sands - Bitumen ^{(b),(g)}	6 730.0	6 405.0
Total	7 300.0	6 855.0
Total Convention & Bitumen	10 826.2	7 504.9

- a) British Columbia Ministry of Energy and Mines and NEB common database
b) Alberta Energy and Utilities Board and NEB common database
c) Provincial estimate for 31 December 1997, NEB updated to 31 December 1998
d) Provincial Agencies and Offshore Boards
e) Canadian Association of Petroleum Producers
f) Bent Horn abandoned 1996
g) Reflects provincial changes; under the previous format figures these would be 644 and 319 respectively
Note: totals may not add due to rounding

A3. Natural Gas Supply and Disposition

(billion cubic metres)

Supply	1995	1996	1997	1998	1999 ^(c)
Marketable Gas Production	150.0	158.9	160.0	160.0	162.8
Imports	0.9	1.6	1.5	1.0	1.4
Total Supply	150.9	160.5	161.5	161.0	164.2
Disposition					
Domestic ^(a)	63.6	67.1	67.3	64.0	64.7
Exports	78.4	80.7	82.5	87.8	94.6
Other Uses ^(b)	8.9	12.7	11.7	9.2	4.9
Total Disposition	150.9	160.5	161.5	161.0	164.2

- a) Source: Statistics Canada
b) Includes pipeline fuel and losses, reprocessing, shrinkage and fuel, and net storage inventory change
c) Estimate



A4. Estimated Established Reserves of Marketable Natural Gas at 31 December 1998

(billion cubic metres)

	Initial	Remaining
British Columbia ^(a)	574	229
Alberta ^(b)	3 810	1 240
Saskatchewan ^(c)	191	76
Ontario ^(d)	44	13
NWT and Yukon	18	8
Nova Scotia - Offshore	85	85
Total	4 722	1 651

- a) British Columbia Ministry of Energy and Mines and NEB common database
 b) Alberta Energy and Utilities Board and NEB common database
 c) Provincial estimate for 31 December 1997, updated by NEB to 31 December 1998
 d) Canadian Association of Petroleum Producers

A5. Natural Gas Liquids Supply and Disposition

(thousand cubic metres per day)

Supply	1995	1996	1997	1998	1999 (e)
Canadian Production ^(a)	86.3	91.2	93.5	94.3	97.6
Imports ^(b)	1.3	0.9	1.2	1.3	1.3
Total Supply^(d)	87.6	92.1	94.7	95.6	98.9
Disposition					
Domestic ^(b)	57.7	60.7	63.3	58.4	65.3
Exports ^(c)	30.4	32.4	31.0	37.6	34.1
Total Disposition^(d)	88.1	93.1	94.3	96.0	99.4

- a) Source: NEB
 b) Source: NEB Form 145
 c) Source: NEB Form 157 and 86A
 d) Total supply does not equal total disposition due to inventory changes, etc.
 e) Estimate

A6. Geophysical Activity

(active seismic crews)

	1995	1996	1997	1998	1999
January	87	70	79	75	48
February	72	67	78	74	37
March	62	74	78	55	36
April	20	8	31	12	13
May	32	24	33	22	10
June	30	32	39	37	16
July	38	35	35	36	24
August	40	36	39	27	37
September	38	33	26	22	38
October	33	43	39	24	35
November	41	53	42	27	38
December	48	78	64	43	40

Source: Petroleum Explorer

A7. Exploration and Development Expenditures

(\$ million)

Exploration	1995	1996	1997	1998	1999
Conventional Areas ^(a)	3,812	4,192	5,229	4,840	5,410
Frontier Areas ^(b)	44	91	139	214	215
Total Canada	3,856	4,283	5,368	5,054	5,625
Development					
Conventional Areas ^(a)	6,822	6,889	10,710	8,104	7,565
Frontier Areas ^(b)	1,383	897	845	1,836	1,400
Total Canada	8,205	7,786	11,555	9,941	8,965
Total Expenditures	12,061	12,069	16,923	14,995	14,590

(a) Alberta, British Columbia, Saskatchewan, Manitoba, Ontario

(b) Northwest Territories, Yukon Territory and Offshore

(c) Estimate

Source: Canadian Association of Petroleum Producers

A8. Sales of Exploration Rights in Western Canada

Area (1 000 ha)	1995	1996	1997	1998	1999
Alberta	4 339	4 680	5 150	3 015	2 996
British Columbia	715	565	735	483	731
Saskatchewan	604	1 047	944	509	398
Manitoba	23	12	50	4	4
Total	5 681	6 304	6 878	4 011	4 129
Expenditures (million \$)					
Alberta	652	768	1 153	597	593
British Columbia	131	128	217	96	176
Saskatchewan	66	123	131	61	46
Manitoba	3	2	6	0	0
Total	852	1,021	1,507	754	816

Source: Daily Oil Bulletin

A9. Sales of Exploration Rights in Frontier Regions

Nova Scotia Offshore	1997	1998	1999
Licences	1	8	21
Expenditures (million \$)	2	94	597
Area (1 000 ha)	13	1 134	2 402
Newfoundland Offshore			
Licences	7	10	5
Expenditures (million \$)	284	175	192
Area (1 000 ha)	619	630	818
NWT			
Licences	7	0	4
Expenditures (million \$)	35	0	183
Area (1 000 ha)	577	0	293
TOTAL			
Licences	15	18	30
Expenditures (million \$)	321	270	973
Area (1 000 ha)	1 209	1 764	3 514

A10. Electricity Generation and Disposition

(terawatt hours)

Supply	1995	1996	1997	1998	1999^(b)
Total Generation	542.7	555.9	556.9	545.2	556.0
Imports ^(a)	2.4	2.0	7.8	11.5	12.9
Total Supply	545.1	557.8	564.7	556.7	568.9
Disposition					
Demand	504.4	513.7	516.5	517.3	526.0
Exports ^(a)	40.7	42.2	43.0	39.5	42.9
Total Disposition	545.1	555.9	559.4	556.8	568.9

a) Excludes exchanges between Canada and the United States

b) Estimate

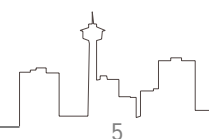
Note: Total disposition includes sales to ultimate customers and producer consumption.



B1. Orders Issued During 1999 Approving New Oil Pipeline Facilities Including Pipeline Construction Not Exceeding 40 Kilometres in Length

Applicant	Order Number	Date Issued	Description	Estimated Cost
Cochin Pipe Lines	XO-C18-19-99	6/18/99	Insall cable trays and mainline instrumentation	473,000
Enbridge Pipelines (NW) Inc.	XO-E102-2-99	1/14/99	1999 Facilities Construction (Building Construction)	7,800
Enbridge Pipelines (NW) Inc.	XO-E102-1-99	1/13/99	Pipe Repair	2,385,700
Enbridge Pipelines Inc.	XO-E101-16-99		15 construction projects for 1999.	9,793,400
Enbridge Pipelines Inc.	XO-E101-23-99	9/7/99	S.58 to automate control of two booster pumps and two injection valves at the Regina Terminal	1
Enbridge Pipelines Inc.	XO-E101-28-99	11/30/99	19 construction projects for 2000.	11,400,000
Enbridge Pipelines Inc.	XO-E101-29-99	12/7/99	Replacement of the impressed current groundbed, the construction of three buildings and the installation of sampling and density measurement equipment	957,250
Enbridge Pipelines (Westpur) Inc.	XO-E103-4-99	1/26/99	One construction project for 1999	60,000
Enbridge Pipelines (Westpur) Inc.	XO-E103-11-99	3/18/99	7 construction projects for 1999.	591,300
Enbridge Pipelines (NW) Inc.	XO-E102-22-99	8/18/99	Replace existing uninterruptible power supply at Wrigley Station	77,800
Enbridge Pipelines Inc.	XO-X6-99	2/17/99	11 construction projects for 1999.	2,800,000
Enbridge Pipelines (NW) Inc.	XO-E102-10-99	3/1/99	Sleeve installation	77,300
Enbridge Pipelines Inc.	XO-E101-12-99	3/24/99	Install additional sampling and flushing equipment at the Edmonton Terminal	16,400
Enbridge Pipelines Inc.	XO-E101-13-99	3/26/99	Modify station piping at Westover Station	1,700
Enbridge Pipelines Inc.	XO-E101-14-99	4/1/99	Replace a diesel power generator and battery powered uninterruptible power supply	343,000
Enbridge Pipelines Inc.	XO-E101-15-99	5/21/99	15 construction projects (power supply source) for 1999.	9,800,000
Enbridge Pipelines Inc.	XO-E101-21-99	8/20/99	Sour stream modifications at Edmonton terminal	265,625
Montreal Pipe Line Limited	XO-M003-17-99	5/21/99	Perfrom additional upgrading work on the 457mm pipeline un the Twp. of Sutton, Quebec	3,000,000
Novagas Canada Pipelines Ltd.	XO-N62-18-99	6/2/99		
PennWest Petroleum Ltd.	XO-P166-7-99	3/4/99	Construction of the 9 - 2 Court Esther Group Emulsion Gathering Line.	114,000
Pipestone Pipelines Ltd.	XO-P176-20-99	6/22/99	To construct and operate a 0.10 km crude oil pipeline	8,331
Sun-Canadian Pipeline Company Limited	XO-S018-26-99	11/18/99	Pipe replacement in Sarnia, ON	NA
Trans-Northern Pipelines Inc.	XO-T002-25-99	10/8/99	For the installation of a block valve and removal of an above-ground spool and subsequent pipe replacement in Ontario.	140,000
Trans Mountain Pipe Line Company Ltd.	XO-T4-3-99	1/18/99	Extend expiry date re: Order XO-T4-5-98 from 31 Dec '98 to 31 Dec '99	
Trans Mountain Pipe Line Company Ltd.	XO-T4-5-99	2/2/99	Cutouts and replacements in Jasper National Park	259,000
Trans Mountain Pipe Line Company Ltd.	XO-T4-8-99	2/25/99	Construct additional groundwater remediation facilities at Jasper Pump Station	837,000
Trans Mountain Pipe Line Company Ltd.	XO-T4-9-99	2/26/99	Cutouts and replacements in Jasper National Park	NA
Trans Mountain Pipe Line Company Ltd.	XO-T4-24-99	10/1/99	Various projects at the Hope and Sumas Pump Station and Westridge Terminal	NA
Vector Pipeline Limited Partnership	XG-V16-15-99	3/31/99	Vector Pipeline Project	35,400,000

NA - Not Available



B2. Exports of Canadian Crude Oil and Equivalent - 1998 and 1999

(cubic metres)

Consignee	1998		1999(a)	
	Total	Daily Average	Total	Daily Average
Amoco Production Company	9 979 362	27 341	-	-
Arco Chemicals	240 076	658	65 917	181
Astra Oil	563 348	1 543	-	-
B.P. OIL	854 747	2 342	-	-
BP AMOCO	10 000	27	10 429 182	28 573
Cenex	2 280 007	6 247	-	-
Chevron U.S.A.	515 334	1 412	655 794	1 797
Citgo Petroleum Corporation	-	-	70 733	194
Clark Oil & Refining Corporation	2 633 601	7 215	1 125 519	3 084
Conoco Inc.	3 429 841	9 397	3 736 641	10 237
Diamond Shamrock Refining Co. L.P.	-	-	47 244	129
Equiva Trading International	1 063 748	2 914	1 486 256	4 072
Exxon Company, U.S.A.	922 070	2 526	1 420 720	3 892
Farmers Union Central Exchange, Incorp.	-	-	2 136 598	5 854
Flying J. Inc.	184 655	506	369 351	1 012
Frontier Oil & Refining Company	536 628	1 470	1 009 680	2 766
Inland Refining	-	-	11 083	30
Koch Refining Company	13 621 839	37 320	9 676 857	26 512
Little America Refining Co.	10 848	30	71 964	197
Marathon Ashland Petroleum Canada	5 398 582	14 791	5 554 685	15 218
Mobil Oil Corporation	11 798 312	32 324	10 596 504	29 032
Montana Refining Company	270 204	740	350 284	960
Murphy Oil USA Inc.	1 782 426	4 883	1 836 124	5 030
PDV Midwest Refining	5 675 785	15 550	5 150 347	14 111
Phillips Petroleum Company	-	-	15 613	43
Shell Oil Company	4 648 982	12 737	347 507	952
Sinclair Oil Corp.	224 502	615	1 168 202	3 201
Sun Refining and Marketing Company	3 234 726	8 862	4 808 476	13 174
Tesoro Refining	1 342 644	3 678	2 466 241	6 757
Tosco N. W. Co.	2 614 937	7 164	2 498 580	6 845
Total Petroleum, Inc.	328 159	899	282 416	774
U. S. Oil & Refining Co.	129 865	356	27 076	74
Union Oil Company of California	29 703	81	20 669	57
United Refining Company	3 370 859	9 235	3 800 477	10 412
UNO-VEN Company	5 327	15	-	-
Other	225 353	617	125 791	345
Total	77 926 468	213 497	71 362 531	195 514

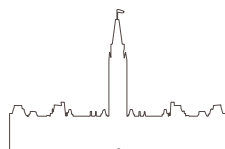
a) Estimate

B3. Exports of Canadian Crude Oil and Equivalent

(cubic metres per day)

	1995	1996	1997	1998	1999(a)
Light Crude Oil and Equivalent	87 448	86 599	80 778	94 678	90 507
Heavy Crude Oil	81 460	91 837	112 897	118 819	105 007
Total	168 908	178 436	193 675	213 497	195 514

a) Estimate



B4. Exports of Petroleum Products - 1999

(cubic metres)

Month	Motor Gasoline	Middle Distillates	Heavy Fuel Oil	Aviation Turbine Fuel	Partially Processed Oil	Total
January	531 052	648 771	86 986	32 322	36 140	1 335 271
February	548 184	635 327	136 262	27 192	6 363	1 353 328
March	481 505	566 203	88 784	13 632	5 244	1 155 368
April	507 848	541 659	124 668	60 462	98 285	1 332 923
May	612 445	545 151	183 885	11 324	39 818	1 392 624
June	402 723	416 941	134 670	40 585	11 268	1 006 187
July	501 860	581 882	173 843	53 839	50 942	1 362 366
August	405 977	460 584	127 624	30 200	22 885	1 047 271
September	493 220	568 550	127 866	37 731	28 043	1 255 410
October	515 101	588 360	118 032	26 612	36 294	1 284 399
November ^(b)	342 002	432 449	115 292	234	20 985	910 962
December ^(b)	525 329	756 879	136 758	28 142	4 251	1 451 360
Total	5 867 246	6 742 757	1 554 670	362 277	360 519	14 887 468

a) Excludes propane, butane, lubricants, greases, asphalt, petrochemicals, etc.

b) Estimates

B5. Exports of Petroleum Products - 1998 and 1999

(cubic metres)

Exporter	1998	1999 ^(a)
Chevron Canada Limited	223 346	187 570
Consumers Co-operative Refineries Ltd.	44 080	39 708
Farmers Union Central Exchange, Incorp.	47 277	50 466
Four Directions Petroleum (First Nation)	584	-
Gale's Gas Bars Limited	175	140
Graham Energy Ltd.	-	198
Griffith Oil Co.	31 423	31 266
Husky Oil Marketing Ltd.	80 279	59 642
Imperial Oil Limited	1 214 818	865 788
Irving Oil Limited	5 721 534	6 663 863
Kildair Service Ltee	351 127	130 168
MacEwen Petroleum Inc.	43 273	45 065
MX Petroleum Corp.	90 000	103 221
Neste Oil Marketing	604	823
Neste Petroleum (Canada) Inc.	77	457
NOCO Energy Canada Inc.	25 394	-
North 60 Petro Ltd.	18 922	18 822
North Atlantic Refining Limited	3 717 281	4 965 068
Northern Transportation Co. Ltd.	2 442	902
Northridge Petroleum Marketing, Inc.	1 531	-
Novacor Chemicals (Canada) Ltd.	329 581	167 784
Olco Oil	59 939	81 006
Petro-Canada Products	317 975	218 802
Petrols Norcan Inc.	1 718	2 624
Shell Canada Products Limited	282 768	369 615
Suncor Energy Marketing Inc.	168 513	154 254
Sunoco Inc.	43 217	27 441
Ultramar Canada Inc.	787 095	663 196
Universal Terminals Ltd.	45 781	39 578
Total	13 650 754	14 887 468

a) Estimates

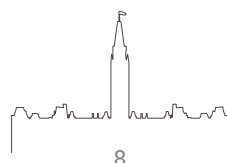


C1. Certificates Issued During 1999 Approving New Gas Pipeline Facilities Including Pipeline Construction Exceeding 40 Kilometres in Length

Applicant	Certificate Number	Date Issued	Description	Estimated Cost
Maritimes & Northeast Pipeline Management Ltd.	GC-100	2/8/99	(GH-4-98) Point Tupper Lateral	20,800,000
Maritimes & Northeast Pipeline Management Ltd.	GC-101	12/9/99	(GH-2-99) Halifax Lateral	77,800,000
Maritimes & Northeast Pipeline Management Ltd.	GC-102	12/16/99	(GH-4-99) Saint John Lateral	92,700,000

C2. Orders Issued During 1999 Approving New Gas Pipeline Facilities Including Pipeline Construction Not Exceeding 40 Kilometres in Length

Applicant	Order Number	Date Issued	Description	Estimated Cost
Westcoast Energy Inc.	XG-W5-2-99	1/13/99	PNG Highway meter addition MS-97	152,000
Blue Range Resources Corporation	XG-B088-4-99	1/15/99	Application to loop the existing Boundary Lake pipeline to allow more gas to flow from existing Bue Range gas wells in BC and AB to Bue Range existing Clear Hill gas gathering system in AB	500,000
Foothills Pipe Lines Ltd.	XG-F6-5-2000	1/20/99	Clamp for a vibrating pipe spool at Station 392	11,000
Penn West Petroleum Ltd.	XG-P166-5-99	1/20/99	15-13 Esther Pipeline Tie-in	182,000
Westcoast Energy Inc.	XG-W5-6-99	1/22/99	Fort St. John Field Services and Taylor Complex - Various Projects	-
Consumers' Gas (Canada) Ltd.	XG-C283-3-99	1/26/99	New Sales Tap	5,000
TransCanada PipeLines Limited	XG-T001-7-99	1/26/99	Variance to Application for 1999 Construction No.1 - pipeline lowering	see notes
TransCanada PipeLines Limited	XG-T001-8-99	1/26/99	Preventative maintenance program	see notes
Star Oil & Gas	XG-S168-11-99	2/5/99	Construction and operation of pipelines	440,000
Westcoast Energy Inc.	XG-W5-13-99	2/9/99	Husky Sikanni Meter Station	212,000
Canadian-Montana Pipe Line Corporation	XG-C9-14-99	2/10/99	750 m of 219.8 od pipeline from LSD 5-4-1-14 W3M to the Canada-U.S. border near Monchy, Sask.	150,000
M&NP	XG-M124-10-99	2/10/99	Winter Wetland Construction	2,000,000
Westcoast Energy Inc.	XG-W5-16-99	2/25/99	Sales and Receipt Taps - Transmission	200,000
Westcoast Energy Inc.	XG-W5-17-99	3/3/99	Fort Nelson Field Services - Various Projects	1,065,000
Westcoast Energy Inc.	XG-W5-18-99	3/3/99	Fort St. John Field Services and Taylor Complex - Various Projects	1,559,000
Westcoast Energy Inc.	XG-W5-19-99	3/4/99	Extend the sunset date of Order XG-W5-19-99 re MS-66 modifications re Solex Gas Plant, from 31 Mar '99 to 2000	225,000
Champion Pipeline	XG-C17-21-99	3/5/99	IR Modification of Existing Installations - directional drill at ottawa river	225,280
Westcoast Energy Inc.	XG-W5-12-99	3/5/99	Fort Nelson Field Services - Various Projects	-
Westcoast Energy Inc.	XG-W5-20-99	3/5/99	Fort Nelson Field Services - Various Projects	-
Westcoast Energy Inc.	XG-W5-22-99	3/12/99	Fort St. John Field Services and Taylor Complex - Various Projects	-
Westcoast Energy Inc.	XG-W5-24-99	3/15/99	Replacement of 30" Southern Mainline at Deadman River	962,000
TransCanada PipeLines Limited	XG-T001-23-99	3/23/99	Pipeline Maintenance Program	99,771,000



C2. Orders Issued During 1999 Approving New Gas Pipeline Facilities Including Pipeline Construction Not Exceeding 40 Kilometres in Length

Applicant	Order Number	Date Issued	Description	Estimated Cost
TransCanada Pipelines Limited B.C. System (formerly Alberta Natural Gas Pipeline Ltd)	XG-A2-26-99	3/25/99	Sustaining Pipeline Capital Program - 6 projects	1,207,000
TransCanada PipeLines Limited	XG-T001-25-99	3/26/99	Installation of earth dykes, valves, enclosures, manifold replacements (part 1)	850,000
Westcoast Energy Inc.	XG-W5-28-99	3/31/99	Fort St. John Field Services and Taylor Complex - Various Projects	-
TransCanada PipeLines Limited	XG-T001-29-99	4/1/99	Pipeline Maintenance Program - No. 4 bend replacements (Part 1) Schedule 1	507,000
Westcoast Energy Inc.	XG-W5-30-99	4/8/99	Grizzly Valley Field Services, T-North and T-South - Various Projects	375,000
Foothills Pipe Lines Ltd.	XG-F6-31-99	4/16/99	1999 Capital Budget (9 projects)	2,550,000
Westcoast Energy Inc.	XG-W5-33-99	4/23/99	Heavy Equipment Shelter at Shelly Yard	40,000
TransCanada PipeLines Limited	XG-T001-32-99	4/26/99	Installation of Pig Launchers & NPS 12 Valves, and Pipe Replacements. (Part 2 - Schedules 2&3 of application)	6,127,000
Many Islands Pipe Lines (Can) Limited	XG-M29-34-99	4/30/99	Natural Gas Hot Tap-off	42,000
Foothills Pipe Lines Ltd.	XG-F6-35-99	5/4/99	1999 capital Budget	100,000
Westcoast Energy Inc.	XG-W5-36-99	5/6/99	Building addition, CS-7, Savona	150,000
Foothills Pipe Lines Ltd.	XG-F6-37-99	5/21/99	Ground bed replacement	77,000
Westcoast Energy Inc.	XG-W5-38-99	5/26/99	Grizzly Valley Field Services Area, Transmission North	615,000
TransCanada PipeLines Limited	XG-T001-40-99	6/1/99	Corrosion Remedial Construction program	14,900,000
Westcoast Energy Inc.	XG-W5-39-99	6/1/99	Grizzly Valley Field Services Area & Transmission information systems and technology	600,000
Pioneer Natural Resources Canada Inc.	XG-P177-41-99	6/3/99	1998/99 East Chinchaga Pipeline - extension of the sunset clause as found in XG-66-98 dated 11 December 1998	1,380,000
Westcoast Energy Inc.	XG-W5-42-99	6/21/99	T-North & T-South - Various Projects	98,000
TransCanada PipeLines Limited	XG-T001-43-99	6/25/99	Station yard recoating program	2,706,000
TransCanada PipeLines Limited	XG-T001-44-99	7/14/99	Installation of 2 sales taps, new sales meter station and bends	866,000
TransCanada PipeLines Limited	XG-T001-45-99	7/19/99	Installation of new meter station and upgrades to Emerson I and parkway meter station	2,283,000
Westcoast Energy Inc.	XG-W5-48-99	7/27/99	Taylor Bridge crossing of the Peace River - Re-activate, hydrostatic test etc.	1,750,000
Westcoast Energy Inc.	XG-W5-49-99	7/28/99	Various Projects - at McMahon, Grizzly Valley, Gas Control etc.	905,000
TransCanada PipeLines Limited	XG-T001-50-99	8/3/99	Compressor Stations 92 and 99 in Ontario	4,203,000
Westcoast Energy Inc.	XG-W5-51-99	8/3/99	Purchase and operation of the South Shekilie facilities from ENCO Gas Ltd.	136,000
Westcoast Energy Inc.	XG-W5-58-99	8/3/99	Sending barrel re-location	305,000
Foothills Pipe Lines Ltd.	XG-F6-52-99	8/6/99	1999 Capital Budget - Recoating & Excavation of Zone 6 pipe	150,000
TransCanada PipeLines Limited	XG-T001-47-99	8/6/99	Installation of 11 crane shelters and retrofit of 11 existing compressors	6,173,000



C2. Orders Issued During 1999 Approving New Gas Pipeline Facilities Including Pipeline Construction Not Exceeding 40 Kilometres in Length

Applicant	Order Number	Date Issued	Description	Estimated Cost
Many Islands Pipe Lines (Canada) Ltd.	XG-M29-53-99	8/13/99	Hot tap off on existing pipeline commencing in NW 12-38-29-W3M and terminating in NE 8-40-22-W3M	30,000
Many Islands Pipe Lines (Canada) Ltd.	XG-M29-54-99	8/13/99	replacement of 36 m of pipe in NW 8-40-22-W3M	76,300
Westcoast Energy Inc.	XG-W5-55-99	8/17/99	Pipeline Replacement - T South	250,000
Foothills Pipe Lines Ltd.	XG-F6-57-99	9/3/99	Installation & Operation of an instrument air moisture analyzer - Empress Compressor Station	17,800
Foothills Pipe Lines Ltd.	XG-F6-60-99	9/8/99	Approval to purchase and install dry gas seal systems at Compressor Stations 392, 393, and 394-2 in Saskatchewan	247,000
TransCanada PipeLines Limited	XG-T001-59-99	9/10/99	Modify wastewater system on Station 209 facility. (part 2)	57,000
Westcoast Energy Inc.	XG-W5-61-99	9/17/99	Various Projects related to S ₂ and S ₂ B and information systems and technology in Calgary	83,000
TransCanada PipeLines Limited	XG-T001-62-99	9/28/99	Reconstruction of the Dauphin meter station at MLV 25	233,000
Westcoast Energy Inc.	XG-W5-64-99	9/30/99	Ekwan pipeline water analyser station	243,000
Many Islands Pipe Lines (Canada) Ltd.	XG-M029-63-99	10/1/99	Hot gas tap off located at NE 32-51-27-W3M	25,200
Duke Energy Midstream Services, Ltd.	XG-D66-56-99	10/8/99	21km 168.3mm od sour gas pipeline to initially transport high CO ₂ content sweet gas (acid gas) from 11-1-81-15-W6M in B.C. to 5-23-80-13-W6M in Alberta	2,600,000
Many Islands Pipe Lines (Canada) Ltd.	XG-M29-67-99	10/14/99	Modification to existing piping within meter station at LSD 12-30-49-27-W3M	14,000
Foothills Pipe Lines Ltd.	XG-F6-65-99	10/19/99	Cooling water piping recoating at Station 369	104,000
Foothills Pipe Lines Ltd.	XG-F6-66-99	10/19/99	Installation of a pipe clamp and support beam at Station 392	21,000
Westcoast Energy Inc.	XG-W5-70-99	10/28/99	Extend the sunset date of Order SG-W5-19-99 re MS-66 modifications re Solex Gas Plant, from 31 Mar '99 to 2000	-
Westcoast Energy Inc.	XG-W5-75-99	10/29/99	Amoco Wapiti pipeline water analyser station	317,000
Foothills Pipe Lines Ltd.	XG-F006-72-99	11/2/99	Application for an order pursuant to s. 58 of the Act to install acoustic insulation on above-grade, high-pressure gas piping, located at Foothills' Compression Station 369 (Empress decompression/Recompression Facility)	245,000
Westcoast Energy Inc.	XG-W5-74-99	11/9/99	Taylor Slope monitoring upgrade	612,000
Westcoast Energy Inc.	XG-W5-71-99	11/10/99	Installation of a new MS-110 on 26 inch Alberta mainline	381,000
TransCanada PipeLines Limited	XG-T001-73-99	11/12/99	Install two telecommunication towers	342,000
AEC Suffield Gas Pipeline Inc.	XG-A163-69-99	12/7/99	Construction and operation approximately 6.2 km 168.3 mm OD natural gas pipeline from 8-3-7-1 W4M in Alberta to 9-32-6-30 W3M in Sask.	543,950

C2. Orders Issued During 1999 Approving New Gas Pipeline Facilities Including Pipeline Construction Not Exceeding 40 Kilometres in Length

Applicant	Order Number	Date Issued	Description	Estimated Cost
Canadian Hunter Exploration Ltd.	XG-C087-76-99	12/8/99	Construction of a 0.4 km 114.3 mm OD sweet natural gas pipeline extending from a well site in BC and connecting to the Elmworth Gas Gathering System in AB	118,725
Canadian Hunter Exploration Ltd.	XG-C087-77-99	12/9/99	Hiding Creek pipeline project 9.9 km of 163.8 mm outer diameter pipeline	1,200,000
Westcoast Energy Inc.	XG-W5-78-99	12/15/99	Install water analyzer building - receipt point 979	50,000
Westcoast Energy Inc.	XG-W5-79-99	12/16/99	Installation of producer hot taps and tie-ins	950,000
Alliance Pipeline Ltd.	XG-A159-80-99	12/17/99	Construction of temporary purge gas facilities near Fort Saskatchewan, Alberta.	160,000
TransCanada PipeLines Limited	XG-T001-81-99	12/20/99	Construction No. 1 for the replacement of pipeline between MLV 104 and MLV 105.	6,800,000
AltaGas Services Inc.	XG-A169-46-99	8/11/00	Construction and operation of 7.7 km sweet, dry natural gas pipeline from 7-36-26-29-W3M in Saskatchewan to 14-1-27-1-W4M in Alberta	500,000
Murphy Oil Company Ltd.	XG-M23-68-99	10/14/99	Modifications to the Cactus-Bodo pipeline	45,000

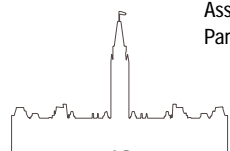
C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 1999

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 ³ m ³)	Annual (10 ⁶ m ³)	Term (10 ⁶ m ³)
Abitibi-Consolidated Corporation	GOL-2-98 ^(a)	Sprague, Man.	3/1/98	10/31/02	N/S	N/S	N/S
AG-Energy L.P.	GL-182	Iroquois, Ont.	11/1/93 11/1/08	10/31/08 12/31/08	467.0 467.0	170.6 28.5	2 587.0
Alberta Northeast Gas, Limited and AEC Oil and Gas Company	GL-105	Iroquois, Ont.	12/1/91 11/1/92 11/1/06	10/31/92 10/31/06 3/31/07	399.0 533.0 533.0	146.4 194.7 80.5	2 714.0
Alberta Northeast Gas, Limited and ATCOR Ltd.	GL-104	Iroquois, Ont.	12/1/91 11/1/92 11/1/06	10/31/92 10/31/06 3/31/07	790.0 1 057.0 1 057.0	289.9 386.1 159.7	5 428.0
Alberta Northeast Gas, Limited and ProGas Limited	GL-103	Iroquois, Ont.	12/1/91 11/1/92 11/1/06	10/31/92 10/31/06 3/31/07	1 399.0 1 870.0 1 870.0	513.4 683.0 282.6	10 236.0
Alberta Northeast Gas, Limited and TransCanada Pipelines Limited	GL-102	Iroquois & Niagara Falls, Ont. combined maximum	11/1/91 11/1/92 11/1/06	10/31/92 10/31/06 2/28/07	5 830.3 7 790.3 7 790.3	2 139.1 2 845.3 935.5	42 646.0
		Maximum permitted at Iroquois, Ont. as part of combined Iroquois/Niagara Falls volume	11/1/91 11/1/92 11/1/06	10/31/92 10/31/06 2/28/07	5 547.0 7 507.0 7 507.0	2 035.7 2 741.9 901.5	
		Maximum permitted at Niagara Falls, Ont. as part of combined Iroquois/Niagara Falls volume	11/1/91 11/1/06	10/31/06 2/28/07	283.3 283.3	103.4 34.0	



C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 1999

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 ³ m ³)	Annual (10 ⁶ m ³)	Term (10 ⁶ m ³)
Amoco Canada Petroleum Company Ltd.	GL-112	Huntingdon, B.C.	7/24/89	10/31/89	704.0	70.4	3 856.0
			11/1/89	10/31/04	704.0	257.0	
	GL-176	Emerson, Man.	11/1/92	10/31/02	424.9	155.1	1 551.0
Amoco Canada Resources Limited and Consolidated Edison Company	GL-127	Niagara Falls, Ont.	4/30/92	10/31/92	873.0	160.8	4 778.0
			1992/1101	10/31/05	873.0	319.0	
BC Gas Utility Ltd.	GOL-6-93 ^(b)	Huntingdon & Kingsgate B.C.	8/31/93	4/30/00	N/S	N/S	N/S
	GOL-3-95 ^(c)	Huntingdon, B.C.	5/1/95	4/30/00	N/S	N/S	N/S
Bearpaw Processing Company (Canada) Ltd.	GO-59-96	N/S	Date of 1st deliveries for a 10-year term		N/S	N/S	N/S
Brooklyn Navy Yard Cogen Partners, L.P.	GL-232	Iroquois, Ont.	Date of 1st deliveries for a 15-year term		750.0	274.0	4 110.0
Canadian Hunter Marketing Ltd.	GL-107	Iroquois & Niagara Falls, Ont.	11/1/90	10/31/10	845.0	254.0	3 381.0
Canadian Occidental Petroleum Ltd.	GL-177	Emerson, Man.	11/1/92	10/31/02	212.5	77.5	775.0
CanWest Gas Supply Inc.	GL-189	Huntingdon, B.C.	1/28/93	10/31/93	2 606.0	722.5	11 415.0
			11/1/93	11/1/03	2 606.0	952.0	
	GL-218	Huntingdon, B.C.	11/1/93	10/31/08	273.2	100.0	1 495.0
Chevron Canada Resources Limited	GL-250	Kingsgate, B.C.	9/1/97	8/30/12	585.8	214.4	3 210.0
CoEnergy Trading Company	GL-276	East Hereford, Que. Emerson, Man combined maximum	3/10/99	3/9/09	2 266.2	827.2	8 272.0
					2 266.2	827.2	
	GOL-5-98 ^(d)	Emerson, Man.	11/1/98	2008/11/31	N/S	N/S	N/S
Cornerstone Gas Marketing	GOL-3-97 ^(e)	Emerson, Man.	11/1/97	2008/11/31	N/S	N/S	N/S
CoWest Energy	GOL-1-97 ^(f)	St. Clair, Niagara, Chippawa, Blue Water, Windsor, Ont. & Emerson, Sask.	2/4/97	2/3/22	N/S	N/S	N/S
	GOL-2-97 ^(g)	St. Clair, Niagara, Chippawa, Blue Water, Windsor, Ont. & Emerson, Man.	2/4/97	2/3/22	N/S	N/S	N/S
Crestar Energy Marketing Corporation	GL-108	Emerson, Man.	11/1/93	10/31/01	422.5	154.0	1 504.0
	GL-257	Monchy, Sask.	11/1/96	10/31/01	179.8	65.6	328.1
Dartmouth Power Associates Limited Partnership	GL-164	Iroquois, Ont.	11/1/92	10/31/07	400.9	146.4	2 196.0



C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 1999

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 ³ m ³)	Annual (10 ⁶ m ³)	Term (10 ⁶ m ³)
Direct Energy Marketing Limited	GL-188	Highwater & East Hereford, Que.	10/29/92	10/31/92	171.0	0.5	936.2
			11/1/92	10/31/06	171.0	62.4	
Duke Energy Marketing Canada Ltd.	GL-145	Huntingdon, B.C.	1/24/91	10/31/91	327.5	92.0	1 195.5
			11/1/91	10/31/00	327.5	119.5	
			1/24/91	10/31/91	272.9	76.7	
11/1/91	10/31/92	272.9	99.6				
			11/1/92	10/31/03	409.4	149.4	
	GL-269	Niagara Falls, Ont.	11/1/97	10/31/07	246.5	90.0	899.7
ENCO Gas, Ltd.	GL-203	Huntingdon, B.C.	8/1/93	10/31/93	155.1	7.2	3 258.0
			11/1/93	10/31/94	429.1	156.6	
			11/1/94	10/31/08	601.3	219.5	
Encogen Northwest, L.P.	GL-190	Huntingdon, B.C.	11/1/93	10/31/08	271.6	99.1	1 441.3
Engage Energy Canada, L.P. as agent for Westcoast Gas Services Inc. and Coastal Gas Marketing Company	GL-166	Monchy, Sask.	4/30/92	10/31/92	2 820.0	527.7	10 300.0
			11/1/92	10/31/01	2 820.0	1 030.0	
	GL-183	Huntingdon, B.C.	11/1/92	10/31/02	273.9	100.0	1 000.3
	GL-225	Huntingdon & Kingsgate, B.C.	12/15/93	10/31/94	2 581.5	533.2	13 691.1
			11/1/94	10/31/04	2 581.5	1 040.8	
	GL-226	Huntingdon & Kingsgate, B.C.	12/15/93	10/31/94	988.6	317.5	4 746.8
			11/1/94	10/31/04	988.6	360.8	
	GL-227	Huntingdon & Kingsgate, B.C.	12/15/93	10/31/94	570.3	183.2	2 738.6
			11/1/94	10/31/04	570.3	360.8	
	GL-228	Huntingdon & Kingsgate, B.C.	12/15/93	10/31/94	114.4	36.8	549.0
			11/1/94	10/31/04	114.4	41.8	
	GL-259	Chippawa, Ont.	11/1/97	10/31/07	1 367.5	500.0	5 000.0
	GL-260	Emerson, Man.	11/1/97	10/31/07	199.1	73.0	730.0
	GL-261	Emerson, Man.	11/1/97	10/31/07	313.5	114.4	1 144.0
	GL-267	Iroquois, Ont.	11/1/97	10/31/07	396.6	145.0	1 450.0
	GL-274	Emerson, Man.	11/1/98	10/31/08	864 000.0	316.0	3 160.0
	GL-275	St. Clair, Ont.	11/1/98	10/31/08	1 400.0	511.0	5 110.0
	GL-282	Emerson, Man.	11/8/98	10/31/08	572.0	208.8	2 452.0
Engage Energy Canada, L.P.	GOL-1-94 ^(h)	Iroquois, Ont. & Niagara Falls, Ont.	3/1/94	9/15/02	N/S	N/S	N/S
	GOL-2-94 ^(c)	Huntingdon & Kingsgate B.C.	3/1/94	9/15/02	N/S	N/S	N/S
	GOL-3-94 ^(l)	Monchy, Sask. & St. Clair, Ont.	3/1/94	9/15/02	N/S	N/S	N/S
	GOL-4-94 ^(h)	Emerson, Man	3/1/94	9/15/02	N/S	N/S	N/S

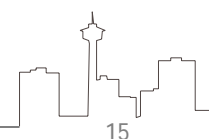
C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 1999

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 ³ m ³)	Annual (10 ⁶ m ³)	Term (10 ⁶ m ³)
	GOL-5-94 ⁽ⁱ⁾	Cardston, Alta.	3/1/94	9/15/02	N/S	N/S	N/S
	GOL-9-93 ^(d)	St. Clair, Ont.	11/1/97	3/31/08	N/S	N/S	N/S
	GO-16-96	N/S	3/7/96	9/19/00	30.0	N/S	N/S
Enron Capital & Trade Resources Corp.	GL-258	Iroquois, Ont.	11/1/96	10/31/06	425.0	155.0	1 550.0
	GL-268	Niagara Falls, Ont.	11/1/97	11/1/07	435.9	159.0	1 590.0
	GL-277	Monchy, Sask.	11/1/98	11/1/08	1 185.2	432.7	4 327.3
	GL-278	Emerson, Man. St. Clair, Ont. combined maximum	11/1/98 11/1/98	11/1/08 11/1/08	901.0 901.0	329.7 329.7	3 296.6
	GL-279	Niagara Falls, Ont.	11/1/98	11/1/08	256.4	93.6	936.0
	GOL-26-92 ^(k)	Monchy, Sask. & Emerson, Man.	11/6/92	11/5/04	N/S	N/S	N/S
Forty Mile gas Co-op Ltd.	GO-21-98	N/S	5/1/98	4/30/18	30.0	N/S	N/S
Fulton Cogeneration Associates	GL-154	Niagara Falls, Ont.	8/27/92 11/1/92	10/31/92 10/31/05	170.0 170.0	11.2 62.0	868.0
Gaz Métropolitain, Inc.	GOL-14-93 ^(h)	St. Clair & Windsor, Ont.	12/1/93	11/30/03	N/S	N/S	N/S
	GOL-16-93 ^(l)	St. Clair & Windsor, Ont.	12/1/93	11/30/03	N/S	N/S	N/S
Husky Gas Marketing (as agent for Canterra Energy Ltd.)	GL-114	Emerson, Man.	8/24/89 11/1/89	10/31/89 10/31/04	424.9 424.9	29.3 155.1	2 246.4 2 556.6
Husky Oil Operations Ltd.	GL-144	Cornwall/Iroquois, Ont. 11/1/92	8/1/92 11/1/07	10/31/92 566.6	566.6 206.8	52.1 3 154.0	3 154.0
Imperial Oil Resources Ltd./Boston Gas Company	GL-294	Iroquois, Ont.	Date/of/1st/ deliveries	3/31/07	991.5	362.0	5 432.0
Indeck-Yerkes Limited Partnership	GL-215	Niagara Falls, Ont.	3/16/93 11/1/93	10/31/93 10/31/05	341.0 341.0	77.7 123.4	1 115.9
Midland Cogeneration Venture Limited Partnership	GOL-9-96 ⁽ⁱ⁾	St. Clair, Windsor, Sarnia & Blue Water, Ont.	12/18/96	12/31/06	N/S	N/S	N/S
Mobil Oil Canada, Ltd.	GL-146	Huntingdon, B.C.	1/24/91 11/1/91 11/1/92 11/1/95	10/31/91 10/31/92 10/31/95 10/31/00	136.5 136.5 272.9 409.4	38.4 49.8 99.6 149.4	1 145.6
Morgan Hydrocarbons Inc. & Coastal Gas Marketing Company	GL-262	Iroquois, Ont.	11/1/96	10/31/06	283.3	104.0	1 040.0
National Steel Corporation	GOL-8-96 ^(h)	Windsor, Ont.	12/18/96	12/17/00	N/S	N/S	N/S



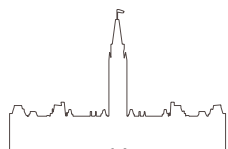
C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 1999

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 ³ m ³)	Annual (10 ⁶ m ³)	Term (10 ⁶ m ³)
New York State Electric & Gas Corporation	GL-195	Chippawa, Iroquois, & Niagara Falls, Ont. & Napierville, Que.	11/1/93	10/31/05	225.0	93.1	1 117.0
	GL-220	Chippawa, Ont.	12/1/93	10/31/94	283.3	95.0	1 035.0
			11/1/94	10/31/03	283.3	103.5	
11/1/03			11/30/03	283.3	8.5		
Northern Minnesota Utilities	GL-171	Sprague, Man.	4/30/92	10/31/92	917.8	168.9	3 685.0
	GOL-17-92 ^(m)	Fort Francis, Ont.	12/1/92	10/31/02	N/S	N/S	N/S
Ocean Energy, Inc.	GOL-12-95 ^(k)	Loomis & Willow Creek, Sask & Emerson, Man	12/1/92	10/31/02	N/S	N/S	N/S
Pan-Alberta Gas Ltd.	Maximum permitted at Niagara Falls, Ont. as part of combined Emerson/Niagara Falls volumes		11/1/87	10/31/96	1 442.7	526.6	
			11/1/96	10/31/97	1 082.1	394.9	
			11/1/97	10/31/98	721.3	263.3	
			11/1/98	10/31/99	360.7	131.7	
	GL-97	Monchy, Sask.	12/20/84	10/31/85	24 928.5	7 582.8	75 296.7
		11/1/85	10/31/01	24 928.5	8 294.4		
PanCanadian Petroleum Ltd.	GL-106	Kingsgate, B.C.	11/1/88	10/31/12	7 478.6	2 488.3	37 324.5
	GL-284	Monchy, Sask	11/1/98	10/31/08	4 277.5	1 562.4	15 624.0
	GL-285	Kingsgate, BC	11/1/98	10/31/08	2 727.0	996.2	9 962.0
Pawtucket Power Associates Limited Partnership	GL-149	Iroquois, Ont.	11/1/91	10/31/06	362.5	132.4	1 986.0
Petro-Canada Inc.	GL-186	Huntingdon, B.C.	4/1/94	10/31/94	409.6	87.5	2 580.9
			11/1/94	10/31/11	409.6	150.0	
Pittsfield Generating Company, L.P.3	GL-256	Niagara Falls, Ont.	4/1/96	10/31/11	895	326.7	4844.
Poco Petroleums Ltd.	GL-117	Emerson, Man.	8/24/89	10/31/89	708.2	48.9	1 706.1
			11/1/89	11/7/90	708.2	258.5	
			11/8/90	10/31/91	424.9	152.1	
			11/1/91	10/31/00	424.9	155.1	
	GL-118	Emerson, Man.	8/24/89	10/31/89	708.2	48.9	2 248.9
			11/1/89	11/7/90	708.2	258.5	
			11/8/90	10/31/91	424.9	152.1	
			11/1/91	10/28/92	424.9	153.8	
			10/29/92	10/31/92	424.9	1.3	
			11/1/92	10/31/04	424.9	155.1	
GL-173	Huntingdon, B.C.	6/11/92	10/31/92	424.9	60.8	1 138.4	
		11/1/92	10/31/00	424.9	155.1		
		11/1/00	8/11/01	424.9	120.7		
GL-174	Huntingdon & Kingsgate, B.C.	6/11/92	10/31/92	566.6	81.0	1 583.0	
		11/1/92	10/31/00	566.6	206.8		
		11/1/00	6/10/01	566.6	126.4		



C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 1999

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes					
			From	To	Daily (10 ³ m ³)	Annual (10 ⁶ m ³)	Term (10 ⁶ m ³)			
	GL-205	Kingsgate, B.C.	11/1/93	10/31/02	445.1	138.8	869.5			
			11/1/02	9/30/03	445.1	126.6				
ProGas Limited	GL-98	Emerson, Man. & Monchy, Sask. combined maximum	8/13/86	10/31/86	9 440.9	2 583.2	30 064.3			
			11/1/86	10/31/87	7 552.7	2 480.0				
			11/1/87	10/31/93	9 440.9	3 100.0				
			11/1/93	10/31/94	5 211.1	1 560.3				
			11/1/94	2/28/95	5 211.1	380.5				
			3/1/95	7/31/95	4 788.7	584.2				
			8/1/95	10/31/95	4 515.0	328.5				
			11/1/95	10/31/97	4 515.0	1 303.5				
			11/1/97	10/31/00	4 741.4	1 386.1				
			11/1/00	10/31/01	1 416.4	517.3				
			8/13/86	10/31/86	6 797.4	2 480.0		8 718.7		
			11/1/86	10/31/87	3 776.3	1 240.0				
			11/1/87	10/31/93	2 124.6	899.0				
			11/1/93	10/31/94	2 124.6	775.5				
			11/1/94	2/28/95	2 124.6	255.0				
			3/1/95	7/31/95	2 124.6	325.1				
			8/1/95	10/31/95	2 124.6	195.5				
			11/1/95	10/31/97	2 124.6	775.5				
			11/1/97	10/31/00	2 124.6	775.5				
			11/1/00	10/31/01	2 124.6	775.5				
			GL-101	Niagara Falls, Ont.	5/1/89	10/31/89		1 420.0	260.6	10 340.0
					11/1/89	10/31/09		1 420.0	517.0	
			GL-109	Iroquois & Niagara Falls, Ont.	5/1/91	10/31/91		708.2	130.3	5 170.0
11/1/91	10/31/11	708.2			258.5					
GL-129	Niagara Falls, Ont.	7/27/90	10/31/90	2 861.1	277.5	19 015.3				
		11/1/90	10/31/92	2 861.1	1 044.3					
		11/1/92	10/31/06	2 521.1	920.2					
		11/1/06	10/31/13	2 039.6	744.4					
GL-161	Iroquois, Ont.	11/1/92	10/31/10	708.2	258.4	4 800.4				
		11/1/10	4/30/11	708.2	128.2					
GL-178	Niagara Falls, Ont.	11/1/92	10/31/07	339.9	124.1	1 861.1				
GL-179	Emerson, Man.	11/1/92	10/31/02	212.5	77.5	775.5				
GL-231	Emerson, Man.	11/1/93	10/31/03	2 407.9	879.0	8 651.9				
GL-233	Emerson, Man.	5/1/94	10/31/94	75.7	13.9	179.8				
		11/1/94	10/31/00	75.7	27.5					
GL-234	Emerson, Man.	5/1/94	10/31/94	84.8	15.6	294.3				
		11/1/94	10/31/03	84.8	31.0					
GL-235	Emerson, Man.	5/1/94	10/31/94	807.1	148.5	1 916.0				
		11/1/94	10/31/00	807.1	294.6					
GL-236	Emerson, Man.	5/1/94	10/31/94	304.0	55.9	1 054.6				
		11/1/94	10/31/03	304.0	111.0					
GL-237	Emerson, Man.	5/1/94	10/31/94	95.9	17.7	332.8				
		11/1/94	10/31/03	95.9	35.0					



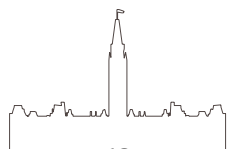
C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 1999

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 ³ m ³)	Annual (10 ⁶ m ³)	Term (10 ⁶ m ³)
	GL-238	Emerson, Man.	5/1/94 11/1/94	10/31/94 10/31/03	313.8 313.8	57.7 114.5	1 088.5
	GL-240	Emerson, Man.	5/1/94 11/1/94	10/31/94 10/31/02	187.4 187.4	34.5 68.4	581.7
	GL-270	Emerson, Man.	5/1/97	10/31/12	2 255.0	41.4	2 071.3
	GL-271	Emerson, Man.	5/1/97	10/31/12	67.0	12.3	378.3
	GL-272	Iroquois, Ont.	11/1/97	10/31/07	458.0	167.2	1 672.0
	GL-286	Emerson, Man.	11/1/98	10/31/08	849.6	310.3	620.6
	GL-287	Monchy, Sask.	11/1/98	10/31/08	849.6	310.3	620.6
	GL-288	Kingsgate, B.C.	7/1/98	3/1/07	222.3	26.7	703.4
	GL-295	Emerson, Man.	1/1/99	10/31/09	171.4	62.6	626.0
Ranger Oil Limited	GL-280	Niagara Falls, Ont.	11/1/97	10/31/07	141.6	51.7	517.0
Renaissance Energy Ltd.	GL-251	Monchy, Sask.	1/31/95 11/1/95	10/31/95 10/31/03	140.0 140.0	42.6 51.1	460.0
	GL-252	Niagara Falls, Ont.	11/1/95	10/31/05	180.0	66.0	660.0
	GL-253	Niagara Falls, Ont.	11/1/95	10/31/05	28.0	10.1	101.0
	GL-255	Niagara Falls, Ont.	10/17/95 11/1/95	10/31/95 10/31/04	79.3 79.3	1.2 28.9	265.5
	GL-263	Niagara Falls, Ont.	11/1/97	11/1/02	281.9	102.9	514.5
	GL-292	Niagara Falls, Ont.	11/1/98	11/1/08	663.0	242.0	2 421.0
Rochester Gas and Electric Corporation	GOL-12-92 ⁽ⁿ⁾	Chippawa, Ont.	11/1/93	10/31/08	N/S	N/S	N/S
San Diego Gas & Electric Company & Husky Oil Operations	GL-208	Kingsgate, B.C.	11/1/93	10/31/01	609.9	222.6	2 226.0
Saranac Power Partners L.P. & Shell Canada Limited	GL-197	Napierville, Que.	11/1/93	10/31/08	1 445.0	529.0	7 125.0
Selkirk Cogen Partners, L.P.	GL-157	Iroquois & Niagara Falls, Ont.	11/1/92 11/1/07	10/31/07 10/30/08	651.5 651.5	237.8 117.9	3 685.9
Selkirk Cogen Partners, L.P. & Atcor Ltd.	GL-192	Iroquois, Ont.	11/1/94	10/31/09	479.0	176.0	2 712.0
Selkirk Cogen Partners, L.P. & Imperial Oil Resources Ltd.	GL-193	Iroquois, Ont.	11/1/94	10/31/09	538.2	196.6	3 031.0
Selkirk Cogen Partners, L.P. & PanCanadian Petroleum Ltd.	GL-194	Iroquois, Ont.	11/1/94	10/31/09	538.2	196.6	3 031.0



C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 1999

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 ³ m ³)	Annual (10 ⁶ m ³)	Term (10 ⁶ m ³)
Shell Canada Limited	GL-119	Emerson, Man.	8/24/89	10/31/89	424.9	29.3	2 234.0
			11/1/89	10/31/03	424.9	155.1	
	GL-120	Emerson, Man.	8/24/89	10/31/89	424.9	29.3	2 250.0
			11/1/89	10/31/04	424.9	155.1	
	GL-134	Niagara Falls, Ont.	7/27/90	10/31/90	450.0	43.7	2 755.0
			11/1/90	10/31/10	450.0	145.0	
			11/1/10	8/31/11	450.0	95.9	
	GL-180	Monchy, Sask.	8/27/92	10/31/92	278.0	18.3	1 014.0
			11/1/92	10/31/01	278.0	102.0	
			11/1/01	8/26/02	278.0	83.1	
GL-181	Monchy, Sask.	8/27/92	10/31/92	580.0	38.3	3 181.0	
		11/1/92	10/31/06	580.0	212.0		
		11/1/06	8/26/07	580.0	173.4		
GL-241	Huntingdon, B.C.	7/19/94	10/31/94	609.0	64.2	2 001.3	
		11/1/94	10/31/09	609.0	223.0		
Sithe/Independence Power Partners, L.P.	GL-219	Chippawa, Ont.	3/1/95	10/31/95	805.0	196.0	2 940.0
			11/1/95	10/31/04			
	GOL-13-92 ^(h)	Chippawa, Ont.	2/1/93	12/31/14	N/S	N/S	N/S
St. Lawrence Gas Company, Inc.	GL-264	Cornwall & Iroquois, Ont.	11/1/96	6/30/97	574.3	106.2	637.2
			7/1/97	10/31/97	531.8	30.6	
			10/1/97	10/31/02	531.8	100.0	
Summit Resources Limited	GL-214	Kingsgate, B.C.	11/1/93	3/31/94	219.2	21.8	300.0
			4/1/94	9/30/94	141.3	26.5	
			10/1/94	10/31/94	219.2	4.5	
			11/1/94	3/31/95	219.2	21.8	
			4/1/95	9/30/95	141.3	26.5	
			10/1/95	10/31/95	219.2	4.5	
			11/1/95	3/31/96	219.2	21.8	
			4/1/96	9/30/96	141.3	26.5	
			10/1/96	10/31/96	219.2	4.5	
			11/1/96	3/31/97	219.2	21.8	
			4/1/97	9/30/97	141.3	26.5	
			10/1/97	10/31/97	219.2	4.5	
			11/1/97	3/31/98	219.2	21.8	
			4/1/98	9/30/98	141.3	26.5	
			10/1/98	10/31/98	219.2	4.5	
			11/1/98	3/31/99	219.2	21.8	
			4/1/99	9/30/99	141.3	26.5	
			10/1/99	10/31/99	219.2	4.5	
			11/1/99	3/31/00	219.2	21.8	
			4/1/00	9/30/00	141.3	26.5	
			10/1/00	10/31/00	219.2	4.5	
			11/1/00	3/31/01	219.2	21.8	
			4/1/01	9/30/01	141.3	26.5	
10/1/01	10/31/01	219.2	4.5				
Talisman Energy Inc.	GL-196	Huntingdon, B.C.	10/1/93	10/31/11	504.1	184.0	3 128.0
			1/1/97	12/31/16	74.7	27.3	
			1/1/97	12/31/16	78.9	28.8	



C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 1999

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes			
			From	To	Daily (10 ³ m ³)	Annual (10 ⁶ m ³)	Term (10 ⁶ m ³)	
Tennessee Gas Pipeline Company	GOL-11-92 ⁽ⁿ⁾	Niagara Falls	11/1/92	10/31/02	N/S	N/S	N/S	
TransCanada Gas Services Limited	GL-128	Cornwall, Ont.	7/27/90 11/1/90	10/31/90 10/31/05	331.0 331.0	32.1 121.3	1 820.0	
	GL-141	Emerson, Man.	11/8/90 11/1/91	10/31/91 10/31/05	424.9 424.9	152.1 155.1	2 326.5	
	GL-163	Niagara Falls, Ont.	11/1/92	10/31/07	283.0	103.7	1 552.0	
	GL-167	Emerson, Man.	5/1/92 11/1/92	10/31/92 10/31/01	1 346.0 1 346.0	247.7 492.0	4 920.0	
	GL-169	Monchy, Sask.	5/1/92 11/1/92	10/31/92 10/31/01	708.0 708.0	130.3 259.0	2 590.0	
	GL-170	Emerson, Man.	5/1/92 11/1/92 11/1/00	10/31/92 10/31/00 5/1/01	283.0 283.0 283.0	52.1 103.0 51.2	978.2	
	GL-172	Philipsburg, Que.	4/30/92 11/1/92	10/31/92 10/31/06	906.0 906.0	166.7 332.0	4 980.0	
	GL-175	Iroquois, Ont.	8/27/92 11/1/92	10/31/92 10/31/05	1 445.0 1 445.0	95.4 529.0	7 910.0	
	GL-200	Niagara Falls, Ont.	2/1/94 11/1/94 11/1/09	10/31/94 10/31/08 1/31/09	509.0 509.0 509.0	139.6 186.6 47.0	2 800.0	
	GL-202	Emerson, Man. 11/1/93	2/23/93 10/31/00	10/31/93 4 853.0	4 853.0 1 776.0	1 221.3	13 892.0	
	GL-242	Emerson, Man.	5/1/94 11/1/94	10/31/94 10/31/03	2 533.0 2 533.0	467.3 927.0	8 811.5	
	GL-243	Emerson, Man.	5/1/94 11/1/93 11/1/94	10/31/94 10/31/10 10/31/03	776.0 504.1 776.0	142.7 184.0 283.0	2 689.5	
	GL-244	Emerson, Man.	5/1/94 11/1/94	10/31/94 10/31/03	752.0 752.0	138.6 275.0	2 613.9	
	GL-245	Emerson, Man.	5/1/94 11/1/94	10/31/94 10/31/03	237.0 237.0	43.7 86.7	824.1	
	GL-246	Emerson, Man.	5/1/94 11/1/94	10/31/94 10/31/03	210.0 210.0	38.7 76.8	730.0	
	GL-254	Emerson, Man.	1/31/95 11/1/95	10/31/95 10/31/03	205.0 205.0	56.5 75.0	675.0	
	GL-291	East Hereford, Que.	11/1/98	10/31/08	849.8	311.0	3 104.4	
	TransCanada Gas Services as agent for CanStates	GL-248	Kingsgate, B.C.	8/1/96	7/31/11	841.5	307.1	4 606.9
	Gas Marketing	GL-249	Kingsgate, B.C.	8/1/96	7/31/11	420.7	153.5	2 303.2



C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 1999

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes				
			From	To	Daily (10 ³ m ³)	Annual (10 ⁶ m ³)	Term (10 ⁶ m ³)		
TransCanada Gas Services as agent for CanStates Gas Marketing and Transco Energy	GL-136	Niagara Falls, Ont.	8/27/92	10/31/92	2 125.0	140.3	9 307.5		
			11/1/92	10/31/02	2 125.0	775.6			
Marketing Company	GL-137	Niagara Falls, Ont.	11/8/90	10/31/91	1 371.1	450.5	5 593.8		
			11/1/91	10/31/00	1 371.1	459.3			
			11/1/00	10/31/02	1 371.1	500.4			
TransCanada Pipelines Limited	GL-83	Niagara Falls, Ont.	11/1/86	10/31/02	2 620.3	959.0	16 371.0		
			11/1/02	1/15/03	2 620.3	199.1			
			1/6/03	1/15/04	2 620.3	959.0			
	GL-110	Iroquois & Niagara Falls, Ont.	5/1/91	10/31/91	708.2	130.3	5 443.2		
			11/1/91	10/31/12	708.2	258.5			
	GL-121	Emerson, Man.	8/24/89	10/31/89	424.9	29.3	2 326.5		
			11/1/89	10/31/03	424.9	155.1			
	GL-122	Emerson, Man.	8/24/89	10/31/89	424.9	29.3	2 326.5		
			11/1/89	10/31/04	424.9	155.1			
	GL-187	Emerson, Man.	8/27/92	10/31/92	2 785.0	183.8	12 035.0		
			11/1/92	10/31/05	2 785.0	875.0			
	GOL-2-91 ^(c)	Emerson, Man.	11/1/91	10/31/05	N/S	N/S	N/S		
UMC Petroleum Corporation	GOL-12-95 ^(p)	Emerson, Man.	9/22/95	12/31/08	N/S	N/S	N/S		
Union Gas Limited	GOL-15-93 ^(a)	Sprague, Man.	12/1/93	11/30/18	N/S	N/S	N/S		
			GOL-5-97 ^(l)	St. Clair, Windsor, Sarnia, & Blue Water, Ont.	6/25/97	6/24/02	N/S	N/S	N/S
			GOL-6-97 ^(d)	Emerson, Man. & Monchy, Sask.	6/25/97	6/24/02	N/S	N/S	N/S
Union Pacific Resources as agent for Norcen Energy Resources Limited	GL-116	Emerson, Man.	5/3/90	10/31/90	184.1	33.5	1 034.0		
			11/1/90	10/31/94	184.1	67.2			
			11/1/94	10/31/01	283.3	104.8			
	GL-143	Emerson, Man.	11/8/90	10/31/91	283.3	101.4	1 068.8		
			11/1/91	10/31/00	283.3	103.4			
United States Gypsum Company	GL-273	Emerson, Man.	11/1/97	11/1/07	382.4	139.6	1 395.8		
			GL-281	Chippawa, Ont. Niagara Falls, Ont. combined maximum	11/1/98	11/1/08	384.2	140.2	1 402.3
			11/1/98	11/1/08	384.2	140.2			
US Gen New England Inc.	GL-160	Iroquois & Niagara Falls, Ont.	7/28/99	11/1/08	1 700.0	621.0	9 308.0		
Vermont Gas Systems, Inc.	GL-289	Philipsburg, Que.	11/1/98	10/31/08	226.6	82.7	827.0		



C3. Licences and Long-Term Orders to Export Natural Gas as at 31 December 1999

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 ³ m ³)	Annual (10 ⁶ m ³)	Term (10 ⁶ m ³)
WasCana Energy Inc.	GL-77	Niagara Falls, Ont.	11/1/87	10/31/93	3 540.0	1 292.1	11 175.9
			11/1/93	12/14/93	3 540.0	155.1	
			12/15/93	10/31/94	2 831.8	909.6	
			11/1/94	10/31/01	2 831.8	1 033.3	
	GL-229	Niagara Falls, Ont.	12/15/93	10/31/94	708.2	227.5	2 391.1
			11/1/94	10/31/02	708.2	258.5	
WasCana Energy Inc. Rock-Tenn Company, Mill	GL-290	Philipsburg, Que.	11/1/98	10/31/08	61.2	22.3	223.4
Washington Water Power Company	GL-204	Kingsgate, B.C.	11/1/93	10/31/94	1 013.0	277.0	3 357.0
			11/1/94	10/31/95	1 100.0	302.0	
			11/1/95	10/31/96	1 190.0	328.0	
			11/1/96	10/31/97	1 285.0	356.0	
			11/1/97	10/31/98	1 380.0	382.0	
			11/1/98	10/31/99	1 471.0	408.0	
			11/1/99	10/31/00	1 563.0	434.0	
			11/1/00	10/31/01	1 145.0	275.0	
			11/1/01	10/31/02	1 201.0	290.0	
		11/1/02	10/31/03	1 258.0	305.0		

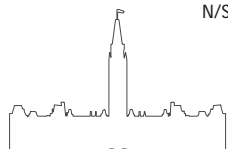
- (a) This order authorizes an export of natural gas for subsequent import near Rainy River, Ont.
 (b) This order authorizes an export of natural gas for storage in the U.S. and for subsequent import near Huntingdon, B.C. through exchange arrangements with other exporters.
 (c) This order authorizes an export of natural gas for subsequent import near Huntingdon, B.C.
 (d) This order authorizes an export of natural gas for subsequent import near St. Clair, Ont.
 (e) This order authorizes the re-export of natural gas that was imported near Loomis, Sask.
 (f) This order authorizes the re-export of natural gas that was imported near Chippawa, Niagara, St. Clair, Windsor, and Blue Water, Ont.
 (g) This order authorizes the export of natural gas for subsequent import near Chippawa, Niagara, St. Clair, Windsor, and Blue Water, Ont.
 (h) This order authorizes the re-export of natural gas that was imported near St. Clair and Windsor, Ont.
 (i) This order authorizes an export of natural gas for subsequent import near Willow Creek, Sask.
 (j) This order authorizes an export of natural gas for subsequent import near St. Clair and Windsor, Ont.
 (k) This order authorizes a re-export of natural gas that was imported near Willow Creek, Sask.
 (l) This order authorizes the re-export of natural gas that was imported near St. Clair, Windsor, Sarnia, and Blue Water, Ont.
 (m) This order authorizes the re-export of natural gas that was imported near Rainy River, Ont.
 (n) This order authorizes the re-export of natural gas that was imported near Sarnia, Ont.
 (o) This order authorizes an export of natural gas for subsequent import near Sarnia and Sault Ste. Marie, Ont.
 (p) This order authorizes an export of natural gas for subsequent import near Willow Creek and Loomis, Sask.
 (q) This order authorizes a re-export of natural gas that was imported near St. Clair, Windsor, Sarnia, S.S. Marie and Blue Water, Ont.
 N/S - not specified

C4. Licences and Long-Term Orders to Import Natural Gas as at 31 December 1999

Exporter	Licence or Order Number	Point of Export	Term of Licence or Order		Maximum Volumes		
			From	To	Daily (10 ³ m ³)	Annual (10 ⁶ m ³)	Term (10 ⁶ m ³)
Abitibi-Consolidated Corporation	GOL-1-98 ^(a)	Rainy River, Ont.	3/1/98	10/31/02	N/S	N/S	N/S
B.C. Gas Utility Ltd.	GOL-6-93 ^(b)	Huntingdon, B.C.	8/11/92	4/30/00	N/S	N/S	N/S
	GOL-3-95 ^(c)	Huntingdon, B.C.	5/1/95	4/30/00	N/S	N/S	N/S
Bearpaw Gathering Systems, Inc.	GOL-5-98 ^(d)	St. Clair, Ont.	11/1/98	2008/11/31	N/S	N/S	N/S
CoWest Energy	GOL-1-97 ^(e)	Chippawa, Niagara, St. Clair, Windsor, & Blue Water, Ont.	2/4/97	2/3/22	N/S	N/S	N/S
	GOL-2-97 ^(f)	Chippawa, Niagara, St. Clair, Windsor, & Blue Water, Ont.	2/4/97	2/3/22	N/S	N/S	N/S

Cornerstone Gas Marketing	GOL-3-97 ^(g)	Loomis, Sask.	8/8/97	10/31/08	N/S	N/S	N/S
Engage Energy Canada, L.P.	GOL-1-94 ^(h)	Windsor & St. Clair, Ont.	3/1/94	9/15/02	N/S	N/S	N/S
	GOL-2-94 ^(b)	Huntingdon, B.C.	3/1/94	9/15/02	N/S	N/S	N/S
	GOL-3-94 ⁽ⁱ⁾	Windsor & St. Clair, Ont.	3/1/94	9/15/02	N/S	N/S	N/S
	GOL-4-94 ^(d)	Windsor & St. Clair, Ont.	3/1/94	9/15/02	N/S	N/S	N/S
	GOL-5-94 ^(l)	Willow Creek, Sask.	3/1/94	9/15/02	N/S	N/S	N/S
Enron North America Corp.	GOL-26-92 ^(k)	Willow Creek, Sask.	11/6/92	11/5/04	N/S	N/S	N/S
Gaz Métropolitain, Inc.	GOL-14-93 ^(l)	St. Clair & Windsor, Ont.	12/1/93	11/30/03	N/S	N/S	N/S
	GOL-16-93 ^(m)	Windsor & St. Clair, Ont.	12/1/93	11/30/03	N/S	N/S	N/S
Midland Cogeneration Venture Limited Partnership	GOL-9-96 ⁽ⁿ⁾	St. Clair, Windsor, Sarnia & Blue Water, Ont.	12/18/96	12/31/06	N/S	N/S	N/S
National Steel Corporation	GOL-8-96 ^(o)	Windsor, Ont.	12/18/96	12/17/00	N/S	N/S	N/S
Northern Minnesota Utilities	GOL-17-93 ^(p)	Rainy River, Ont.	12/1/92	10/31/02	N/S	N/S	N/S
Ocean Energy, Inc.	GOL-12-95 ^(g)	Willow Creek (Sask.)	9/22/95	12/31/08	N/S	N/S	N/S
Rochester Gas and Electric Corporation	GOL-12-92 ^(q)	Sarnia, Ont.	11/1/93	10/31/08	N/S	N/S	N/S
Sithe/Independence Power Partners, L.P.	GOL-13-92 ^(q)	Sarnia & Windsor, Ont.	2/1/93	12/31/14	N/S	N/S	N/S
Tennessee Gas Pipeline Company	GOL-11-92 ^(q)	St. Clair, Ont.	11/1/92	10/31/02	N/S	N/S	N/S
TransCanada Pipelines Limited	GOL-2-91 ^(d)	Sarnia & SS Marie, Ont.	11/1/91	10/31/05	N/S	N/S	N/S
Union Gas Limited	GOL-15-93 ^(s)	Rainy River	12/1/93	11/30/18	N/S	N/S	N/S
	GOL-5-97 ^(c)	St. Clair, Windsor, Sarnia, & Blue Water, Ont.	6/25/97	6/24/02	N/S	N/S	N/S
	GOL-6-97 ^(l)	St. Clair, Windsor, Sarnia, & Blue Water, Ont.	6/25/97	6/24/02	N/S	N/S	N/S

- (a) This order authorizes the re-import of natural gas that was exported near Sprague, Man.
- (b) This order authorizes the re-import of natural gas that was exported near Kingsgate & Huntingdon, B.C.
- (c) This order authorizes an import of natural gas for subsequent export near Huntingdon, B.C.
- (d) This order authorizes a re-import of natural gas that was exported near Emerson, Man.
- (e) This order authorizes an import of natural gas for subsequent export near St. Clair, Niagara, Chippawa, Blue Water, Windsor, Ont. and Emerson, Man.
- (f) This order authorizes the re-import of natural gas that was exported near St. Clair, Niagara, Chippawa, Blue Water, Windsor, Ont. and Emerson, Man.
- (g) This order authorizes an import of natural gas for subsequent export near Emerson, Man.
- (h) This order authorizes an import of natural gas for subsequent export near Iroquois and Niagara Falls, Ont.
- (i) This order authorizes the re-import of natural gas that was exported near Monchy, Sask. and St. Clair, Ont.
- (j) This order authorizes the re-import of natural gas for that was exported near Cardston, Alta.
- (k) This order authorizes an import of natural gas for subsequent export near Monchy, Sask. And Emerson, Man.
- (l) This order authorizes an import of natural gas for subsequent export near St. Clair and Windsor, Ont.
- (m) This order authorizes the re-import of natural gas that was exported near St. Clair and/or Windsor, Ont.
- (n) This order authorizes an import of natural gas for subsequent export near St. Clair, Windsor, Sarnia, and Blue Water, Ont.
- (o) This order authorizes an import of natural gas for subsequent export near Windsor, Ont.
- (p) This order authorizes an import of natural gas for subsequent export near Fort Francis, Ont.
- (q) This order authorizes an import of natural gas for subsequent export near Chippawa, Ont.
- (r) This order authorizes an import of natural gas for subsequent export near Niagara Falls, Ont.
- (s) This order authorizes the re-import of natural gas that was exported near Emerson, Man. Monchy, Sask.
- (t) This order authorizes the import of natural gas for subsequent export near Emerson, Man. and Monchy, Sask.
- N/S Not Specified



C5. Natural Gas Exports by Export Point

(million cubic metres)

Export Point	1995	1996	1997	1998	1999 ^(a)
Huntingdon	8 989	10 693	10 454	11 979	11 487
Kingsgate	22 199	22 545	23 985	24 187	22 614
Monchy	15 633	15 499	15 451	15 815	22 020
Emerson	11 298	11 944	12 122	13 737	13 990
Niagara Falls	7 700	7 609	8 147	8 637	10 063
Iroquois	7 986	8 072	8 305	8 748	9 821
Other	4 596	4 334	4 079	4 778	4 601
Total	78 400	80 696	82 543	87 880	94 595

a) Estimate

C6. Total Net Exports of Propane and Butanes, 1998 - 1999

(cubic metres)

Exporter	Propane		Butanes	
	1998 Actual	1999 Preliminary	1998 Actual	1999 Preliminary
Amoco Canada Petroleum Company Ltd.	3 839 354	3 346 850	1 438 114	1 215 139
Burnwell Gas of Canada, Ltd.	114 271	138 367	N/A	N/A
Canada Imperial Oil Limited	574 898	657 105	9 563	14 460
Canadian Enterprise Gas Products Ltd.	94 836	69 399	4 885	0
CANPET Energy Group Inc.	117 564	133 823	38 877	22 183
CENEX, Inc.	232 111	88 684	N/A	N/A
Centennial Gas Liquids, L.L.C.	1 689	4 993	N/A	N/A
Chevron Standard Ltd.	200 846	208 807	0	0
Coast Energy Canada Inc.	0	15 116	N/A	0
Consumers' Co-operative Refineries Limited	8 458	1 010	0	0
Country Energy, LLC	N/A	216 446	N/A	N/A
Dow Chemical Canada Inc.	30 334	29 296	0	0
Dynegy Midstream Services, L.P.	50 208	82 276	20 621	32 373
Elbow River Resources Ltd.	48 885	68 908	233 021	188 606
enerkon Resources (Canada)	574	0	0	0
ETI Energy Transportation Inc.	166 344	124 998	0	0
Factor Gas Liquids Inc.	30 288	37 284	1 996	1 751
Farmland Industries, Inc.	31 754	3 844	N/A	N/A
Ferrellgas	108 050	187 494	0	N/A
Gas Supply Resources, Inc.	212 736	545 228	N/A	N/A
Gibson Petroleum Company Ltd.	0	0	811	0
Great Western Resources Inc.	8 109	6 266	0	0
Gulf Midstream Services	60 671	75 234	28 214	15 648
Irving Oil Limited	33 170	17 101	0	0
Kinetic Resources (LPG)	1 153 110	958 062	416 337	286 216
Link Petroleum Services Ltd.	6 637	12 310	2 486	3 167
M-P Energy	212 926	203 464	0	0
Mapco Canada Energy Inc.	33 011	31 603	0	0
Marathon Ashland Petroleum LLC	0	0	46 312	30 010
Mobil Canada Products Ltd.	32 433	19 185	11 328	0
Mobil Oil Canada	92 383	57 594	9 428	0
NGL Supply Co. Ltd.	218 099	258 766	192 157	186 258
Norcal Gas Liquids Ltd.	1 208	N/A	5 837	N/A
Novagas Canada Ltd.	66 578	66 961	0	0
Petro-Canada Hydrocarbons Inc.	326 691	403 352	200 415	277 827
Petrogas Marketing Ltd.	110 373	69 607	36 871	14 026
Pétromont, société en commandite	12 565	10 758	0	0
Quadra Energy Trading Ltd.	133 200	172 026	18 249	12 796

C6. Total Net Exports of Propane and Butanes, 1998 - 1999

(cubic metres)

Exporter	Propane		Butanes	
	1998 Actual	1999 Preliminary	1998 Actual	1999 Preliminary
Resource Energy Marketing Ltd.	56 617	66 647	38 752	10 289
Rivecal Energy Ltd.	2 055	N/A	0	N/A
Shell Canada Limited	288 902	227 644	110 546	144 576
Stittco Energy Limited	20 239	26 186	1 183	0
Suburban Propane, L.P.	792	N/A	N/A	N/A
Sunoco Inc.	125 300	123 000	47 900	100
Texaco Natural Gas Liquids	88 886	91 490	170 184	129 920
TransCanada Gas Liquids	56 916	264 005	0	0
Triangle Three Service Ltd.	899	837	N/A	N/A
Ultramar Limited	9 953	0	0	0
Total	9 014 923	9 122 026	3 084 087	2 585 345

N/A - not applicable

D1. Financial Information - Group 1 Oil Pipeline Companies with Multi-Year Incentive Toll Settlements

1999 ^(a)	Enbridge Pipelines Inc.	Trans Mountain Pipe Line Company Ltd.	Trans-Northern Pipelines Inc.
Operations (\$000)			
Revenues	383,809	113,626	28,416
Fuel & Power	61,780	4,619	3,415
Depreciation	83,192	13,433	3,029
Operating & Maintenance	124,636	60,186	14,914
Net Income	103,748	15,367	3,796
Throughput Statistics			
Throughput (m ³ /day)	264 300	32 988	29 206
Throughput-Km (000 m ³ *km)	84 608 000	11 636 385	1 549 989
Performance Statistics			
Average Revenue (\$/m ³)	4	9	3
Revenue per m ³ - km (\$)	0	0	0
Expenses per m ³ - km (\$)	0	0	0
Net Income over/(under) Earnings Threshold (\$000)	17,672	4,114	534
Negotiated Incentives (\$000) ^(b)	14,636	3,884	483
Other Adjustments (\$000) ^(c)	66,595	126	758

a) Data may be based on preliminary estimates.

b) Shippers' share of 1999 incentives, to be deducted from 2000 revenue requirement.

c) Shippers' share of adjustments under each company's incentive agreement, to be deducted from or added to year 2000 revenue requirement.

D2. Financial Information - Group 1 Oil Pipeline Companies with Tolls Based on Cost of Service

1999 ^(a)	Cochin Pipe Lines Ltd	Enbridge Pipelines (NW) Inc.
Revenue Requirement (\$000)		
Cost of Debt	7,471	4,511
Return on Equity	6,936	9,879
Fuel & Power	4,314	568
Depreciation	775	8,976
Wages & Benefits	1,766	2,412
Other Operating & Maintenance	7,084	7,307
Other	-	48 ^(c)
Income Taxes	3,993	7,885
Other Taxes	1,546	396
Total	33,885	41,892
Return on Common Equity (%)		
Approved	5.75 to 8.25	9.58
Actual	6.3 ^(b)	9.58
Utility Rate Base (\$000) at 31 December 1999		
Net Plant in Service	106,614	178,142
Working Capital	3,063	857
Other	-	5,509 ^(d)
Total	109,677	184,508
Capitalization of Rate Base (\$000)		
Debt	-	55,386
Deferred Taxes	-	29,005
Common Equity	109,677	103,144
Total	109,677	187,535
Annual Throughput (10³m³)	5,015	1,825

a) Data may be based on preliminary estimates.

b) Return based on a semi-depreciated rate base, pursuant to Board Order RH-5-80.

c) Includes other revenue and amortization of shipper underpayment.

d) Equity portion of 1985 shipper underpayment, inventory, and unamortized debt redemption & issue costs.

D3. Financial Information - Group 1 Gas Pipeline Companies^(b)

1999 ^(a)	TransCanada, TransCanada's B.C. System ^(c)	Foothills Pipe Lines Ltd.	TransCanada PipeLines Limited	Trans Québec & Maritimes Inc.	Westcoast Energy Inc.
Revenue Requirement (\$000)					
Cost of Debt	10,544	39,335	576,978	28,182	
Return on Equity	5,317	24,385	260,366	14,140	
Preferred Dividends	-	-	-	-	
Fuel & Power	5,203	9,329	59,190	383	
Depreciation	9,372	42,582	305,896	20,063	
Wages & Benefits	^(d)	4,775	^(c)	4,698	
Other Operating & Maintenance	16,478	18,098	229,386	5,280	
Special Charges	7,870	39,297 ^(f)	-		
Transmission by Others	26,291	-	376,744	-	
NEB Cost Recovery	3,092	1,999	9,235	653	
Other	-	1,032 ^(e)	66,810	-	
Income Taxes	465	- 6,574	45,096	10,236	
Other Taxes	2,980	12,182	117,722	4,773	
Total	79,742	155,013	2,086,720	88,408	568.8^(g)
Return on Common Equity (%)					
Approved	9.58	9.58	9.58	9.58	9.58
Actual	9.58	9.58	9.64	9.94	10.92
Capitalization of Rate Base (\$000) on 31 December 1999					
Debt	150,179	572,212	6,350,390	389,346	1,472
Preferred	-	-	-	-	31
Common Equity	64,363	300,305	2,721,596	166,863	809
IROR One Time Adjustment	-	7,783	-	-	-
Total	214,542	880,299	9,071,986	556,209	2,313

a) Data may be based on preliminary estimates

b) Maritimes & Northeast Pipeline Management Ltd. started flowing gas late in the day on 31 December 1999. Associated revenues were deemed immaterial for annual report purposes.

c) Formerly Alberta Natural Gas Company Ltd., now owned by TransCanada PipeLines Limited

d) Includes Other Operating & Maintenance Expenses

e) Amortization of incentive rate of return one time adjustment

f) Includes Insurance Deductibles, Stress Corrosion Cracking related costs, FST Conversion, Regulatory Amortizations, Pressure Delivery Charges

g) Tolls set by formula as per negotiated settlement where breakdown of revenue requirement is irrelevant.

E1. Certificates and Permits Issued During 1999 for International Power Lines

Applicant	Certificate No.	Issued	Comments
Canadian Niagara Power Company, Limited	EP-137	5/14/99	Authorization to rehabilitate and operate an international power line

E2. Amending Orders Issued During 1999 for International Power Lines

Applicant	Order No.	Issued	Comments
Maine and New Brunswick Electrical Power Company Limited and WPS Power Development Inc.	AO-2-EC-III-2 AO-1-EC-III-3	3/4/99 3/4/99	Certificates transferred to PDI Canada, Inc.
Ontario Hydro	AO-2-EC-11/AO-3-EC-12/AO-2-EC-13/AO-2-EC-14/AO-2-EC-15/AO-2-EC-16/AO-4-EC-17/AO-2-18/AO-2-EC-III-6/AO-2-EC-III-13/AO-1-EC-III-20/AO-2-XE-2-72	3/4/99	Certificates and exemption order transferred to Ontario Hydro Services Company Inc.
Ontario Hydro	AO-1-EC-19/AO-1-EC-20/AO-1-EC-21	3/4/99	Certificates transferred to Ontario Power Generation Inc.
Ontario Hydro Hydro Services	AO-1-EPE-25/AO-2-EPE-59/AO-4-EPE-60/AO-1-EPE-113	3/4/99	Permits transferred to Ontario Company Inc.
Ontario Hydro Services Company Inc.	AO-3-EC-11/AO-4-EC-12/AO-3-EC-13/AO-3-EC-14/AO-3-EC-15/AO-3-EC-16/AO-5-EC-17/AO-3-18/AO-3-EC-III-6/AO-3-EC-III-13/AO-2-EC-III-20	5/11/99	Certificates transferred to Ontario Hydro Networks Company Inc.
Ontario Hydro Services Company Inc.	AO-2-EPE-25/AO-3-EPE-59/AO-5-EPE-60/AO-2-EPE-113/AO-3-XE-72	5/11/99	Permits transferred to Ontario Hydro Networks Company Inc.
Ontario Hydro Services Company Inc.	AO-4-EC-III-13	5/20/99	Alterations to International Power Line
Ontario Hydro Services Company Inc.	AO-4-EC-III-6	5/20/99	Alterations to International Power Line
Canadian Niagara Power Company, Limited	AO-1-EP-137 AO-1-EC-23	7/30/99 7/30/99	Permit transferred to Canadian Niagara Power Inc. Certificate transferred to Canadian Niagara Power Inc.

E3. Revoking Orders Issued During 1999 for International Power Lines

Applicant	Order No.	Issued	Comments
Canadian Niagara Power Company, Limited	RO-EC-22	5/14/99	Revocation of certificate

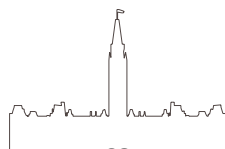
E4. Licences Issued During 1999 for the Export of Electricity

No Licences Were Issued During 1999.

E5. Permits and Orders Issued During 1999 for the Export of Electricity

E5(a) Permits Issued

Applicant	Permit No.	Class	Kilowatts	Annual	Term		Issued
				Megawatt Hours	From	To	
Marketing D'Énergie HQ Inc.	EPE-129	Interruptible	-	30 000 000	4/8/99	4/7/09	3/25/99
	EPE-130	Firm	6 000 000	30 000 000	4/8/99	4/7/09	3/25/99
Cominco Ltd.	EPE-131	Interruptible	-	1 000 ^(a)	2/1/99	12/31/03	1/22/99
	EPE-132	Firm	336 000	1 000	2/1/99	12/31/03	1/22/99
	EPE-133	Carrier Transfer	-	50 000	2/1/99	12/31/03	1/22/99
	EPE-134	Firm Equichange	-	250 000	2/1/99	12/31/03	1/22/99
Duke Energy Marketing Canada Ltd.	EPE-135	Interruptible	-	2 000 000 ^(b)	1/14/99	1/14/09	1/14/99
	EPE-136	Firm	1 000 000	2 000 000 ^(c)	1/14/99	1/14/09	1/14/99
Constellation Power Source Inc.	EPE-138	Interruptible	-	1 752 000	8/26/99	8/25/09	8/26/99
	EPE-139	Firm	600 000	5 256 000 ^(d)	8/26/99	8/25/09	8/26/99
Southern Company Energy Marketing L.P.	EPE-142	Interruptible	-	3 000 000	10/6/99	10/5/09	10/6/99
	EPE-143	Firm	2 000 000	2 000 000	10/6/99	10/5/09	10/6/99
Bonneville Power Administration	EPE-140	Interruptible	-	^(e)	9/23/99	9/22/04	9/23/99
	EPE-141	Firm	-	^(e)	9/23/99	9/22/04	9/23/99
Manitoba Hydro	EPE-144	Firm	50 000	^(f)	5/1/00	4/30/10	12/16/99
PG&E Energy Trading - Power L.P.	EPE-145	Interruptible	-	5 000 000	12/16/99	12/16/09	12/16/99
	EPE-146	Firm	1 000 000	5 000 000	12/16/99	12/16/09	12/16/99
Fraser Paper Inc. (Canada)	EPE-147	Firm	60 000	400 000	1/1/00	12/31/02	11/25/99
New Brunswick Power Corporation	EPE-148	Firm	224 000	^(g)	1/1/00	10/31/20	12/22/99



E5(b) Amending Orders Issued During 1999 for Export Licences and Export Permits

Applicant	Order No.	Issued	Comments
Maine and New Brunswick Canada Inc. Electrical Power Company Limited and WPS Power Development Inc.	AO-1-EL-177	3/4/99	Amend and Transfer Licence to PDI
Ontario Hydro	AO-48-EPE-21 AO-49-EPE-21	1/6/99 3/4/99	Addition of a customer Transfer Permit to Ontario Power Generation Inc. and Ontario Hydro Interconnected Markets Inc.
Electricity	AO-1-EPE-22	3/4/99	Transfer Permit to Independent Market Operator
	AO-1-EPE-24/AO-EPE-110	3/4/99	Transfer Permit to Ontario Power Generation Inc.
Ontario Power Generation Inc.	AO-50-EPE-21 AO-51-EPE-21	4/28/99 8/5/99	Removal of four customers and name change for four customers Addition of a customer, removal of a customer, and name change for three customers
	AO-52-EPE-21 AO-53-EPE-21	8/30/99 12/16/99	Name change for a customer Addition of two customers
Edmonton Power Generation Inc.	AO-2-EPE-62 AO-2-EPE-63	4/21/99 4/21/99	Transfer Permits to Edmonton Power Generation Inc.
Atco Electric Ltd. and	AO-1-EPE-93 AO-1-EPE-94	6/1/99 6/1/99	Transfer Permits to Atco Electric Ltd. Atco Power Ltd.
Cornwall Electric	AO-1-EPE-82 AO-1-EPE-83	9/21/99 9/21/99	Extension of Permits' term
Canadian Niagara Power Company, Limited	AO-1-EPE-84 AO-1-EPE-85	9/29/99 11/12/99	Increase in quantity of power Extension of term
Edmonton Power Generation Inc.	AO-3-EPE-62 AO-3-EPE-63	10/22/99 10/22/99	Transfer Permits to EPCOR Generation Inc.
James MacLaren Industries Inc.	AO-1-EPE-111 AO-1-EPE-112	11/1/99 11/1/99	Transfer Permits to Great Lakes Power Inc.

E5(c) Revoking Orders Issued During 1999 for Export Licences and Export Permits

Applicant	Order No.	Issued	Comments
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There were no Revoking Orders relating to the export of electricity issued during 1999.

- a) Total exports shall not exceed 1 000 GW.h less any amounts under EPE-132.
- b) Total exports shall not exceed 2 000 GW.h less any amounts under EPE-136.
- c) Total exports shall not exceed 2 000 GW.h less any amounts under EPE-135.
- d) Total exports shall not exceed 5 256 GW.h less any amounts in excess of 876 GW.h under EPE-138.
- e) Total exports shall not exceed the maximum transfer limits of international power lines located in British Columbia.
- f) Total exports shall not exceed 292 GW.h during period 1 May 2000 to 31 December 2000; 438 GW.h annually during the period 1 January 2001 to 31 December 2009; 146 GW.h during the period 1 January 2010 to 30 April 2010.
- g) Total exports shall not exceed 2 TW.h in any consecutive twelve-month period until 31 October 2003 and after 31 October 2003 shall be limited to 1 150 GW.h during the period 1 April to 31 October.

E6. Electricity Exports - 1999

(megawatt hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange ^(a)	Firm	Interruptible
New Brunswick								
Fraser Paper Inc. (Canada)	EPE-102*	400 000	--	307 800	--	--	21,212,382	--
Maine and New Brunswick Electrical Power Company, Limited	EL-177	200 000	--	67 142	--	--	1,653,599	--
PDI Canada Inc.	EL-177	200 000	--	71 483	--	--	2,035,996	--
New Brunswick Power Corporation	EPE-15	--	6 482 400 ^(b)	--	153	802	--	12,172
	EPE-16	--	400 000	--	185 912	-30 037	--	10,496,929
	EPE-17	250 000	--	--	--	81 810	--	--
	EPE-18	--	179 000	--	21 749	-129	--	1,104,214
	EPE-28	1 000	--	50	--	--	5,349	--
	EPE-47	175 200	--	84 456	--	--	6,534,199	--
	EPE-48	--	32 000	--	--	--	--	--
	EPE-90	6 482 000 ^(c)	--	--	--	--	--	--
	EPE-91	--	6 482 000 ^(d)	--	4 258 597	--	--	182,269,701
Total				530 931	4 466 411	52 446	31,441,525	193,883,016
Nova Scotia								
Nova Scotia Power Inc.	EPE-122	--	1 200 000 ^(e)	--	--	--	--	--
	EPE-123	1 200 000 ^(f)	--	--	--	--	--	--
Total							0	0
Québec								
Hydro-Québec	EL-151	--	11 000 000	--	--	--	--	--
	EL-156	25 000	--	--	--	--	--	--
	EL-165	--	3 000 000	--	--	--	--	--
	EL-166	--	4 000 000	--	--	--	--	--
	EL-176	9 000 000	--	5 756 779	--	--	178,290,949	--
	EL-180	1 402 000	--	1 132 674	--	--	108,882,697	--
	EL-181	400 000	--	237 588	--	--	21,842,699	--
	EL-182	406 000	--	172 411	--	--	16,050,712	--
	EL-183	540 000	--	311 205	--	--	29,510,832	--
	EL-184	273 000	--	159 317	--	--	15,527,636	--
	EPE-20	18 922	--	1 227	--	--	88,761	--
	EPE-64	--	30 000 000 ^(g)	--	4 607 161	--	177,170,833	--
	EPE-65	20 000 000 ^(h)	--	4 174 572	--	--	164,805,121	--
James Maclaren Industries Inc.	EPE-111	--	8 760 000 ⁽ⁱ⁾	--	1 254	--	--	60,094
	EPE-112	8 760 000	--	--	--	--	--	--
Great Lakes Power Inc.	EPE-111	--	8 760 000 ^(j)	--	5 913	--	--	201,151
	EPE-112	8 760 000	--	--	--	--	--	--
Marketing D'Énergie HQ Inc.	EPE-129	--	30 000 000 ^(j)	--	--	--	--	--
	EPE-130	30 000 000 ^(k)	--	--	--	--	--	--
Montwegan International Energia Resorce Inc.	EPE-108	--	8 760 000 ^(l)	--	--	--	--	--
	EPE-109	8 760 000 ^(m)	--	--	--	--	--	--
Tractebel Energy Marketing Inc.	EPE-86	--	8 760 000 ⁽ⁿ⁾	--	--	--	--	--
	EPE-87	8 760 000	--	--	--	--	--	--
Total				11 945 773	4 614 328		534,999,407	177,432,078

E6. Electricity Exports - 1999

(megawatt hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible	Firm	Interruptible	Exchange ^(a)	Firm	Interruptible
Ontario								
Canadian Niagara Power Company Limited	EPE-84	656 000	--	377 472	--	--	14,617,149	--
	EPE-85	250 000	--	--	--	--	--	--
The Canadian Transit Company	EPE-29	50	--	--	--	--	--	--
Cornwall Electric	EPE-82	--	45000	--	--	--	--	--
	EPE-83	250 000	--	--	--	--	--	--
Destec Power Services, Inc.	EPE-80	--	1 200 000 ^(o)	--	--	--	--	--
	EPE-81	1 200 000	--	--	--	--	--	--
The Detroit and Windsor Subway Company	EPE-26	4 000	--	1 872	--	--	--	--
Ontario Hydro	EPE-22	--	10 000 000	--	--	354 584	--	--
	EPE-24	15 000	--	64	--	--	127	--
	EPE-25	200	--	--	--	--	--	--
	EPE-110	(p)	--	--	--	--	--	--
Ontario Hydro and Ontario Hydro Interconnected Markets Inc.	EPE-21	--	25 000 000	--	258 316	11 112	--	9,842,397
Ontario Power Generation Inc. and Ontario Hydro Interconnected Markets Inc.	EPE-21	--	25 000 000	--	2 114 938	49 792	--	148,140,726
Independent Electricity Market Operator	EPE-22	--	10 000 000	--	--	1 127 791	--	--
Ontario Power Generation Inc.	EPE-24	15 000	--	120	--	--	202	--
	EPE-110	(o)	--	--	--	--	--	--
Ontario Hydro Company Services Inc.	EPE-25	200	--	--	--	--	--	--
Ontario Hydro Networks Company Inc.	EPE-25	200	--	--	--	--	--	--
Stone-Consolidated Corporation	EPE-75	--	175 000	--	--	--	--	--
St. Clair Tunnel Company	EPE-70	6	--	--	--	--	--	--
Total				379 528	2 373 254	1 543 279	14,617,478	157,983,123

E6. Electricity Exports - 1999

(megawatt hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Firm	Gross Energy Exported			Value of Export (\$)	
		Firm	Interruptible		Firm	Interruptible	Exchange ^(a)	Firm	Interruptible
Manitoba									
Manitoba Hydro	EL-170	3 405 000	--	3 344 210	--	--	180,800,503	--	--
	EPE-33	883 000	--	180 701	--	--	3,774,374	--	--
	EPE-34	663 000	--	128 419	--	--	4,730,980	--	--
	EPE-35	663 000	--	131 350	--	--	3,152,622	--	--
	EPE-45	16 650 000 ^(q)	--	915 482	--	--	45,524,874	--	--
	EPE-46	--	16 650 000 ^(r)	--	2 886 984	-1 054 294	--	96,175,987	--
	EPE-52	199 000	--	35 135	--	--	1,989,056	--	--
	EPE-61*	9 460	--	3 625	--	--	167,143	--	--
	EPE-68	438 000	--	128 737	--	--	6,549,475	--	--
	EPE-72	20	--	3	--	--	547	--	--
	EPE-128	26 780	--	1 126	--	--	62,122	--	--
British Columbia Power Exchange Corp. (Powerex)	EPE-116	--	40 000 000 ^(ss)	--	50	--	--	--	938
Total				4 868 788	2 887 034	-1 054 294	246,751,696	96,176,925	
Saskatchewan									
Saskatchewan Power Corporation	EL-118	438 000 ^(s)	--	--	--	58 950	--	--	--
	EL-119	--	876 000 ^(t)	--	49 828	-65 951	--	2,364,739	--
	EL-120	876 000	--	--	--	--	--	--	--
	EPE-88	--	7 008 000 ^(u)	--	--	--	--	--	--
	EPE-89	7 008 000 ^(u)	--	100 525	--	--	5,061,882	--	--
British Columbia Power Exchange Corp. (Powerex)	EPE-116	--	40 000 000 ^(ss)	--	2 835	--	--	--	108,093
Total				100 525	52 663	-7 001	5,061,882	2,472,832	
Alberta									
Alberta Power Limited and CU Power International Limited	EPE-93	--	10 600 000 ^(v)	--	--	--	--	--	--
	EPE-94	10 600 000 ^(w)	--	--	--	--	--	--	--
Atco Electric Ltd. and Atco Power Ltd.	EPE-93	--	10 600 000 ^(v)	--	--	--	--	--	--
	EPE-94	10 600 000 ^(w)	--	--	--	--	--	--	--
Aquila Canada Corp.	EPE-114	--	5 000 000	--	--	--	--	--	--
	EPE-115	5 000 000	--	--	--	--	--	--	--
Chandler Energy Inc.	EPE-100	--	500 000 ^(x)	--	--	--	--	--	--
	EPE-101	500 000 ^(y)	--	--	--	--	--	--	--
Citizens Power Sales	EPE-120	--	432 000	--	--	--	--	--	--
	EPE-121	2 160 000	--	--	--	--	--	--	--
Constellation Power Source Inc.	EPE-138	--	1 752 000	--	--	--	--	--	--
	EPE-139	5 256 000 ^(z)	--	--	--	--	--	--	--
Duke Energy Marketing Canada Ltd.	EPE-135	--	2 000 000 ^(aa)	--	--	--	--	--	--
	EPE-136	2 000 000 ^(bb)	--	--	--	--	--	--	--
Edmonton Power Generation Inc.	EPE-62*	--	3 000 000 ^(cc)	--	--	--	--	--	--
	EPE-63*	1 000 000	--	--	--	--	--	--	--



E6. Electricity Exports - 1999

(megawatt hours)

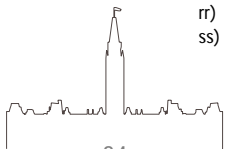
Exporter	Permit/ Licence Number	Permit/Licence Limit		Gross Energy Exported			Value of Export (\$)		
		Firm	Interruptible	Firm	Interruptible	Exchange ^(a)	Firm	Interruptible	
EPCOR Generation Inc.	EPE-62* EPE-63*	-- 1 000 000	3 000 000 ^(cc) --	-- --	-- --	-- --	-- --	-- --	
Engage Energy Canada, L.P.	EPE-96 EPE-97	-- 3 000 000 ^(ee)	3 000 000 ^(dd) --	-- --	-- --	-- --	-- --	-- --	
Enron Capital & Trade Resources Canada Corp.	EPE-98 EPE-99	-- 5 000 000 ^(gg)	5 000 000 ^(ff) --	-- --	-- --	-- --	-- --	-- --	
PG&E Energy Trading - Power L.P.	EPE-145 EPE-146	-- 5 000 000	5 000 000 --	-- --	-- --	-- --	-- --	-- --	
Sonat Power Marketing Inc. and Sonat Power Marketing L.P.	EPE-103 EPE-104	-- 3 500 000 ⁽ⁱⁱ⁾	3 500 000 ^(hh) --	-- --	-- --	-- --	-- --	-- --	
Southern Company Energy Marketing L.P.	EPE-142 EPE-143	-- 2 000 000	3 000 000 --	-- --	-- --	-- --	-- --	-- --	
TransAlta Energy Marketing Corp.	EPE-73 EPE-74	-- 8 760 000	8 760 000 ^(jj) --	-- 18 641	-- --	-- --	-- 678,957	-- --	
TransCanada Power Corp.	EPE-78 EPE-79	-- 1 000 000	2 000 000 --	-- --	6 076 --	-- --	-- --	180,892 --	
Total				18 641	6 076	--	678,957	180,892	
British Columbia									
Bonneville Power Authority	EPE-140 EPE-141	-- (kk)	(kk) --	-- --	-- --	-- --	-- --	-- --	
British Columbia Hydro and Power Authority and British Columbia Power Exchange Corp.	EPE-43* EPE-44*	-- 6 000 000	20 000 000 ^(ll) --	-- --	-- --	-- --	-- --	-- --	
British Columbia Hydro and Power Authority	EPE-105 (mm) EPE-124 EPE-125 EPE-126 EPE-127	1 410 -- -- (oo) -- (qq)	-- -- (nn) -- (pp) --	1 013 -- -- -- -- --	-- -- -- -- -- --	-- 255 540 -- -- -- --	61,167 -- -- -- -- --	-- -- -- -- -- --	
British Columbia Power Exchange Corp. (Powerex)	EPE-71 EPE-92 EPE-95 EPE-116 EPE-117 EPE-118 EPE-119	25 951 770 000 ^(rr) 176 000 -- 20 000 000 -- 15 000 000	-- -- -- 40 000 000 ^(ss) -- 27 000 000 ^(tt) --	-- 756 756 85 350 -- -- -- 271 282	-- -- -- -- -- 9 425 743 --	-- -- -- -- -- -- --	-- -- 2,666,720 -- -- -- 6,454,646	-- -- -- -- -- 443,313,092 --	
Cominco Ltd.	EPE-55* EPE-56* EPE-57* EPE-58* EPE-131 EPE-132 EPE-133 EPE-134	50 000 250 000 -- -- -- 1 000 000 -- 250 000	-- -- 1 000 000 1 000 000 1 000 000 ^(uu) -- 50 000 --	-- -- -- -- -- 65 383 -- --	-- -- -- 16 950 -- 41 341 -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- 2,794,973 -- --	-- -- 538,967 -- 2,371,606 -- -- --	

E6. Electricity Exports - 1999

(megawatt hours)

Exporter	Permit/ Licence Number	Permit/Licence Limit		Firm	Gross Energy Exported		Value of Export (\$)	
		Firm	Interruptible		Firm	Interruptible	Firm	Interruptible
Inland Pacific	EPE-106	--	2 000 000 ^(vv)	--	--	--	--	--
Energy Services Ltd.	EPE-107	2 000 000 ^(ww)	--	--	--	--	--	--
West Kootenay Power Ltd.	EPE-13	50	--	22	--	--	1,489	--
	EPE-66*	--	100 000 ^(xx)	--	3 515	--	--	85,561
	EPE-67*	100 000 ^(yy)	--	--	--	--	--	--
Total				1 179 806	9 487 549	255 540	11,978,995	446,309,226
Total Canada^(zz)				19 023 992	23 887 315	789 970	845,529,940	1,074,438,092

- a) Exchange includes inadvertent and circulating flow, equichange, storage, adjustment transfer, and wheeling or carrier transfer which normally do not have associated revenue.
- b) Total exports should not exceed 6 482.4 GW.h less any amounts exported pursuant to another licence or order under which the energy is transmitted over the line authorized by Certificate EC-III-8.
- c) Total exports should not exceed 6 482 GW.h less any amounts under any other electricity export authorization issued to NB Power.
- d) Total exports should not exceed 6 482 GW.h less any amounts under any other electricity export authorization issued to NB Power.
- e) Total exports should not exceed 1 200 GW.h less any amounts exported under Permit EPE-123.
- f) Total exports should not exceed 1 200 GW.h less any amounts exported under Permit EPE-122.
- g) Total exports should not exceed 30 000 GW.h less any amounts exported under Permit EPE-65.
- h) Total exports should not exceed 20 000 GW.h less any amount exported under any other electricity export authorization issued to Hydro-Québec except EPE-64.
- i) Total exports should not exceed 8 760 GW.h less any amounts exported under Permit EPE-112.
- j) Total exports should not exceed 30 TW.h less any amounts exported under Permit EPE-130.
- k) Total exports should not exceed 30 TW.h less any amounts exported under Permit EPE-129.
- l) Total exports should not exceed 8 760 GW.h less any amounts exported under Permit EPE-109.
- m) Total exports should not exceed 8 760 GW.h less any amounts exported under Permit EPE-108.
- n) Total exports should not exceed 8 760 GW.h less any amount exported under under EPE-87.
- o) Total exports should not exceed 1 200 GW.h less any amount exported under under EPE-81.
- p) Quantity included under EPE-21.
- q) Total exports should not exceed 16 650 GW.h less any amount exported under any other electricity export authorization except border accommodations issued to Manitoba Hydro.
- r) Total exports under EPE-46 should not exceed 16 650 GW.h less any amount exported under any other electricity export authorization except border accommodations issued to Manitoba Hydro.
- s) Energy to be returned.
- t) Total exports under Licences EL-119 and EL-120 should not exceed 876 GW.h when combined together.
- u) Total exports should not exceed 7 008 GW.h less any amounts exported under any other electricity authorization except border accommodations issued to Saskatchewan.
- v) Total exports should not exceed 10 600 GW.h less any amount exported under under EPE-94.
- w) Total exports should not exceed 10 600 GW.h less any amount exported under under EPE-93.
- x) Total exports should not exceed 500 GW.h less any amount exported under under EPE-101.
- y) Total exports should not exceed 500 GW.h less any amount exported under under EPE-100.
- z) Total exports should not exceed 5 256 GW.h less any amount in excess of 876 GW.h exported under under EPE-138.
- aa) Total exports should not exceed 2 000 GW.h less any amount exported under under EPE-136.
- bb) Total exports should not exceed 2 000 GW.h less any amount exported under under EPE-135.
- cc) Total exports should not exceed 3 000 GW.h less any amount exported under under EPE-63.
- dd) Total exports should not exceed 3 000 GW.h less any amount exported under under EPE-97.
- ee) Total exports should not exceed 3 000 GW.h less any amount exported under under EPE-96.
- ff) Total exports should not exceed 5 000 GW.h less any amount exported under under EPE-99.
- gg) Total exports should not exceed 5 000 GW.h less any amount exported under under EPE-98.
- hh) Total exports should not exceed 3 500 GW.h less any amount exported under under EPE-104.
- ii) Total exports should not exceed 3 500 GW.h less any amount exported under under EPE-103.
- jj) Total exports should not exceed 8 760 GW.h less any amount exported under under EPE-74.
- kk) Total exports should not exceed the maximum transfer limits of the international power lines of BC Hydro and Cominco.
- ll) Total exports should not exceed 20 000 GW.h less any amounts exported under Permit EPE-44.
- mm) Energy exported in accordance with the Skagit River Valley Treaty which is not under the Board's jurisdiction.
- nn) Total exports should not exceed the maximum transfer limits of the international power lines less the amount of energy exported under Permits EPE-125, EPE-126 and EPE-127.
- oo) Total exports should not exceed the maximum transfer limits of the international power lines less the amount of energy exported under Permits EPE-124, EPE-126 and EPE-127.
- pp) Total exports should not exceed the maximum transfer limits of the international power lines less the amount of energy exported under Permits EPE-124, EPE-125 and EPE-127.
- qq) Total exports should not exceed the maximum transfer limits of the international power lines less the amount of energy exported under Permits EPE-124, EPE-125 and EPE-126.
- rr) Total exports should not exceed 340 GW.h during first contract year and 770 GW.h in the following four contract years.
- ss) Total exports should not exceed 40 000 GW.h less any amounts exported under Permits EPE-117.



- tt) Total exports should not exceed 6 000 GW.h less any amounts exported under Permits EPE-119.
 uu) Total exports should not exceed 1 000 GW.h less any amounts exported under Permits EPE-132.
 vv) Total exports should not exceed 2 000 GW.h less any amounts exported under Permits EPE-107.
 ww) Total exports should not exceed 2 000 GW.h less any amounts exported under Permits EPE-106.
 xx) Total exports should not exceed 100 GW.h less any amounts under EPE-67.
 yy) Total exports should not exceed 100 GW.h less any amounts under EPE-66.
 zz) Excludes \$6 159 977 revenue for wheeling, transmission, unit rental and storage transfer charges.
 * Expired during 1999.

E7. Electricity Trade Between Canada and the United States^(a) - 1999

(by Province, gigawatt hours)

Province	Region/State	Export ^(b)	Import ^(c)	Net Export
New Brunswick	Maine	4 997	27	4 970
Total New Brunswick		4 997	27	4 970
Quebec	Maine	6	356	- 349
	Vermont	5 903	165	5 738
	New England ^(d)	8 908	200	8 708
	New York	1 742	1 732	10
Total Quebec		16 560	2 453	14 107
Ontario	New York	1 428	461	967
	Pennsylvania	13	30	- 16
	Michigan	889	1 108	- 219
	New England ^(d)	196	0	196
	Minnesota	227	11	216
Total Ontario		2 753	1 610	1 143
Manitoba	Other ^(e)	99	117	- 17
	Oregon	2	0	2
	Minnesota	6 845	1 019	5 826
	Montana	5	28	- 22
	North Dakota	104	63	41
	South Dakota	28	44	- 16
	Texas	204	15	189
	Wisconsin	403	47	355
Total Manitoba		7 691	1 332	6 359
Saskatchewan	Minnesota	29	28	1
	Montana	2	0	2
	North Dakota	76	278	- 202
	Washington	46	209	- 164
Total Saskatchewan		153	516	- 365
Alberta	California	0	1	- 1
	Minnesota	0	1	- 1
	Montana	0	8	- 7
	Oregon	67	167	- 100
	South Dakota	0	0	0
	Washington	22	205	- 183
Total Alberta		89	382	- 292
British Columbia	California	1 149	0	1 149
	Colorado	2	0	2
	Montana	11	0	11
	North Dakota	0	0	0
	Oregon	404	0	404
	Other ^(e)	87	22	65
	South Dakota	0	0	0
	Washington	9 013	6 611	2 402
Total British Columbia		10 668	6 634	4 033
Total		42 911	12 953	29 958

- a) Sales and purchases only; excludes exchanges.
 b) Sales to the United States.
 c) Purchases from the United States.
 d) Trade with the New England Power Pool - quantities to each state cannot be accurately determined.
 e) Includes Iowa, Kansas, Missouri and Nebraska.
 f) Includes Alaska, Arizona, Idaho, and Utah.



E8. Electricity Trade Between the United States and Canada^(a) - 1999

(by American Region/State, gigawatt hours)

Region/State	Province	Import ^(b)	Export ^(c)	Net Import
New England				
Maine	New Brunswick	4 997	27	4 970
	Quebec	6	356	- 349
Vermont	Quebec	5 903	165	5 738
New England ^(d)	Quebec	8 908	200	8 708
	Ontario	196	0	196
Total New England		20 011	748	19 263
New York	Quebec	1 742	1 732	10
	Ontario	1 428	461	967
Total New York		3 170	2 193	977
Michigan	Ontario	889	1 108	- 219
Total Michigan		889	1 108	- 219
Pennsylvania	Ontario	13	30	- 16
Total Pennsylvania		13	30	- 16
Midwest				
Other ^(e)	Manitoba	99	117	- 17
Minnesota	Alberta	0	1	
	Ontario	227	11	216
	Manitoba	6 845	1 019	5 826
North Dakota	Saskatchewan	29	28	1
	British Columbia	0	0	0
	Manitoba	104	63	41
South Dakota	Saskatchewan	76	278	- 202
	British Columbia	0	0	0
	Alberta	0	0	0
Texas	Manitoba	28	44	- 16
	Manitoba	204	15	189
Wisconsin	Manitoba	403	47	355
Total Midwest		8 016	1 623	6 393
Western				
California	Alberta	0	1	- 1
	British Columbia	1 149	0	1 149
Colorado	British Columbia	2	0	2
Montana	Alberta	0	8	- 7
	British Columbia	11	0	11
	Manitoba	5	28	- 22
	Saskatchewan	2	0	2
Oregon	Alberta	67	167	- 100
	British Columbia	404	0	404
	Manitoba	2	0	
Other ^(f)	British Columbia/Alberta	87	22	65
Washington	Alberta	22	205	- 183
	British Columbia	9 013	6 611	2 402
	Saskatchewan	46	209	- 164
Total Western		10 811	7 251	3 560
Total		42 911	12 953	29 958

a) Sales and purchases only; excludes exchanges.

b) Purchases from Canada.

c) Sales to Canada.

d) Trade with the New England Power Pool - quantities to each state cannot be accurately determined.

e) Includes Iowa, Kansas, Missouri and Nebraska.

f) Includes Alaska and Idaho.



