- Q. Please provide all supporting documents and workpapers used in developing the Energy and Demand Loss Factors shown on Schedule 4.2 of the 2001 Cost of Service Study. Please include the data for the three years (1999 2001) as indicated in the footnote.
- A. Attachment A provides the detailed breakdown of system loss allocations from System Loss Studies for the years 1999, 2000 and 2001 which were used in developing the Energy and Demand Loss Factors shown in Schedule 4.2 of the 2001 Cost of Service Study.
- 10
 11 Attachment B provides a summary of the system loss factors for the three years 199912 2001 and the calculated three-year average found in Schedule 4.2 of the 2001 Cost of
 13 Service Study.

NEWFOUNDLAND POWER INC.

SYSTEM LOSS ALLOCATION STUDIES 1999-2001 DETAILED BREAKDOWN COMPANY USE INCLUDED IN TOTAL LOSSES

ENERGY LOSSES

TOTAL TRANSMISSION SYSTEM LOSSES INCLUDING CO. USE	1999	2000	2001
Transmission Sales (kWh)	23,261,623	9,983,505	5,302,684
Energy Wheeled Through Transmission (kWh)	55,176,081	59,064,066	53,800,540
Energy Delivered to Distribution Power Transformers (kWh)	4,430,757,722	4,614,618,019	4,746,373,872
Total Energy Delivered By Transmission System (kWh)	4,509,195,426	4,683,665,590	4,805,477,096
Transmission Losses Including Company Use (kWh)	48,762,226	58,192,471	43,251,233
(%)	1.0814%	1.2425%	0.9000%
DDIMARY DISTRIBUTION LOSSES INCLUDING COMPANY LIST			
PRIMARY DISTRIBUTION LOSSES INCLUDING COMPANY USE			
Primary Sales (kWh)	412,990,442	424,765,950	443,214,255
Energy Wheeled through Primary (kWh)	14,854,229	14,731,118	15,960,709
Energy Delivered to Distribution Transformers (kWh)	3,924,750,467	4,077,102,364	4,207,998,307
Total Energy Delivered by Primary (kWh)	4,352,595,138	4,516,599,432	4,667,173,271
Primary Losses Including Company Use (kWh)	64,105,685	77,658,755	66,902,145
(%)	1.4728%	1.7194%	1.4335%
Primary Losses Including Power Transformers & Company Use (kWh)	90,601,494		90,480,541
(%)	2.0816%	2.4207%	1.9387%
GECOND A BY DIGERIDIETION I OGGEG BYGLUDBYG COMPANY LIGH			
SECONDARY DISTRIBUTION LOSSES INCLUDING COMPANY USE			
Secondary Sales (kWh)	3,840,093,298	3,975,710,374	4,121,505,437
Secondary and Distribution Transformer Losses Incl. Co. Use (kWh)	84,657,169	101,391,990	86,492,870
(%)	2.2046%	2.5503%	2.0986%

NEWFOUNDLAND POWER INC.

SYSTEM LOSS ALLOCATION STUDIES 1999-2001 DETAILED BREAKDOWN COMPANY USE INCLUDED IN TOTAL LOSSES

DEMAND LOSSES

TOTAL TRANSMISSION SYSTEM PEAK LOSSES INCLUDING CO. USE	1999	2000	2001
Transmission Sales (kW)	7,569	7,351	8,243
Peak Wheeled Through Transmission (kW)	12,369	12,930	13,225
Peak Delivered to Distribution Power Transformers (kW)	979,152	991,321	1,148,600
Total Peak Delivered By Transmission System (kW)	999,091	1,011,602	1,170,069
Transmission Losses Including Company Use (kW)	22,531	26,211	21,962
(%)	2.2552%	2.5911%	1.8770%
PRIMARY DISTRIBUTION PEAK LOSSES INCLUDING COMPANY USE			
Primary Sales (kW)	63,463	63,330	74,182
Peak Wheeled through Primary (kW)	3,330	3,225	3,923
Peak Delivered to Distribution Transformers (kW)	875,335	880,652	1,029,074
Total Peak Delivered by Primary (kW)	942,128	947,206	1,107,179
Primary Losses Including Company Use (kW)	30,046	35,267	34,378
(%)	3.1892%	3.7233%	3.1050%
Primary Losses Including Power Transformers & Company Use (kW)	39,991	46,816	44,077
(%)	4.2447%	4.9426%	3.9810%
SECONDARY DISTRIBUTION PEAK LOSSES INCLUDING COMPANY USE			
Secondary Sales (kW)	843,090	843,257	991,680
Secondary and Distribution Transformer Losses Including Co. Use (kW)	32,246	37,394	37,393
(%)	3.8247%	4.4345%	3.7707%

Newfoundland Power Inc. 2001 Cost of Service Study

ENERGY AND DEMAND LOSS FACTORS

(Losses as a percentage of supply)

Energy Loss Factors	<u>1999</u>	<u>2000</u>	<u>2001</u>	Three Year Average
Transmission Primary	1.0814% 2.0816%	1.2425% 2.4207%	0.9000% 1.9387%	1.0746% 2.1470%
Secondary	2.2046%	2.5503%	2.0986%	2.2845%
Demand Loss Factors	1999	2000	2001	Three Year Average
Transmission	2.2552%	2.5911%	1.8770%	2.2411%
Primary	4.2447%	4.9426%	3.9810%	4.3894%
1 1111111111	4.244/70	4.9420%	3.9010/0	4.5054/0