1	Q.	(a)	Provide detailed calculations of the interruptible rate credit provided to				
2		. ,	participating industrials (HGB, page 7, lines 21-25).				
3							
4		(b)	What operating criterion is used to interrupt the customers on the				
5			interruptible rate?				
6							
7		(C)	Provide the statistics on the number of interruptions per year				
8			requested and the interruptible credits provided for each year since				
9			the creation of the interruptible rate.				
10							
11							
12	А	(a)	In 1993, Hydro entered into an agreement with the Abitibi				
13			Consolidated Inc. mill at Stephenville for the supply to Hydro of 46				
14			MW of interruptible demand. The rate was determined as follows:				
15							
16		For D	emand				
17							
18		-	Capital Cost Estimate for a gas turbine in 1993				
19			= \$50,987,000/50,000 kW = \$1,040/kW				
20		-	Capital Recovery based on a uniform amount payment using 11%				
21			interest and 30 year life = 0.1150 x \$1,040/kW = \$119.6/kW				
22		-	Adjustments to account for terms of service:				
23			1. Annual availability – December to March. 70% of LOLE index				
24			occurs during this period, therefore $119.6$ /kW x 0.70 =				
25			\$83.7/kW;				
26			2. Daily availability – partial day with greater weighting for peak				
27			hours, i.e. \$83.7/kW x 0.75 = \$62.8/kW; and				

1		3.	Equivalency – adjustment to account for inability to provide						
2		0.	voltage support and emergency backups,						
3									
4			i.e. \$68.2/kW x 0.90 = \$56.1/kW						
5									
6	_	Conv	erting the annual estimate to a monthly rate, i.e.						
7		56.1/kW + 4 = \$14.1/kW							
8		<i></i>							
9	for E	nergy							
10									
11	The e	energy	rate was based on 90% of the production fuel cost from existing						
12	gas tı	gas turbines for energy interrupted. The energy interrupted was based on							
13	the de	the demand interrupted over the number of hours of interruption.							
14									
15	It was	s recog	nized that during the course of negotiations there may be other						
16	factor	factors that would arise with respect to conditions of availability and further							
17	adjus	adjustments to the rate may be required for these changes. As well, since							
18	the m	the monthly demand charge for firm service was \$8.25/kW and the demand							
19	credit payment by Hydro was viewed, essentially a discount to the firm								
20	service provided. It was decided to offer \$7.05/kW as the interruptible rate in								
21	negotiations, which was accepted by Abitibi Consolidated Inc.								
22									
23	(b)	Hydro	has two types of interruptible arrangements. One is power and						
24		energ	y supplied to industrial customers above their Power on Order						
25		and is	s called either Interruptible or Interruptible "A" Power, hereafter						
26		called	Interruptible "A" Power. The second arrangement enables						
27		Hydro	to interrupt a portion of the customer's Power on Order and is						
28		called	Interruptible "B" Power. The arrangement discussed in item (a)						
29		above	e is Interruptible "B" Power.						

1		ACI (Stephenville) has the only Interruptible "B" arrangement. They
2		interrupt their load when requested by the Energy Control Center.
3		These interruptions are requested when Hydro must start its gas
4		turbine units to meet winter peak power demands. A request to
5		interrupt is made one (1) hour in advance and the interruption can be
6		up to ten (10) hours per day.
7		
8		Customers taking Interruptible "A" Power have that portion of their
9		load interrupted at anytime Hydro considers it necessary to meet firm
10		load requirements. However, at times, these customers will be given
11		the option to continue to receive the Interruptible "A" Power if they are
12		willing to pay for the energy at the cost of Hydro running its gas
13		turbine units. This option is only available when there is sufficient gas
14		turbine capability available. There are no restrictions on timing or
15		duration of these interruptions.
16		
17	(C)	The table below provides the statistics on the number of interruptions
18		per year requested and the interruptible credits provided for each year
19		since the creation of the interruptible rate.

## Newfoundland and Labrador Hydro

Season	Interruptions	Energy Credit	Demand Credit	Capacity Payment	Season Total
1993/1994	5	\$41,720	\$7,512	\$1,297,200	\$1,346,432
1994/1995	3	\$37,282	\$6,793	\$1,297,200	\$1,341,275
1995/1996				\$1,297,200	\$1,297,200
1996/1997				\$1,297,200	\$1,297,200
1997/1998				\$1,297,200	\$1,297,200
1998/1999				\$1,297,200	\$1,297,200
1999/2000				\$1,297,200	\$1,297,200
2000/2001				\$1,297,200	\$1,297,200

## Interruptible B Interruptions