Q. If the change in the base rate for Vale and Praxair was phased in in the same manner as is proposed by Hydro for Teck Resources, please provide details (as were provided in response to PUB-NLH-16) of the forecast impact on the base and RSP rates of the other Industrial Customers compared to those proposed by Hydro's Application.

A. Please refer to Attachments 1 to 3. Attachments 1 and 2 provide the phase-in rates for Vale and Praxair calculated in the same manner as proposed for Teck Resources. Attachment 3 provides the forecast impact on the base and RSP rates for the other Industrial Customers assuming the change in base rate for Vale, Praxair and Teck Resources was phased in.

Estimated Phase-In Rates for the 2013 to 2015 Industrial Customer Rates Phase In effective September 1, 2013
Vale

IC-NLH-14
Attachment 1

Line No		A		B		C	D		E	
		2013 Test Year		Existing Revenue including RSP at August 31 2013			Proposed Test Year Revenue			Reference
		Units		Rate		Revenue	Rate		Revenue	
	Step 1: Determine Annual Percentage Increase					A x B			A x D	
1	Demand	75,500	kW	6.68	$/kW/mo	$504,340	9.13	$/kW/mo	$689,315	
2	Energy	34,300	MWh	36.76	mills/kWh	$1,260,868	47.82	mills/kWh	$1,640,226	
3	Specifically Assigned Charges					$0			$533,724	
4	Subtotal					$1,765,208			$2,863,265	Line 1 to 3
5	RSP	34,300	MWh	(20.00)	mills/kWh	($686,000)		mills/kWh	$0	
6	Total					$1,079,208			$2,863,265	Line 4 to 5
7	Difference between Total Proposed Test Year Revenue and Existing								($1,784,057)	Line 6, Col C less Line 6, Col E
8	mills/kWh					31.46			83.48	Line 6/Line 2, Col A
9	Annual Required Increase								**38.4%**	See Note 1

Line No			F	G	H	
		Existing Rates	September 1 2013	September 1 2014	September 1 2015	
	Step 2: Determine Annual Revenue					
10	Amount required to achieve 29.7% increase year over year		$ 414,416	$ 573,552	$ 796,090	
11	Revised Total to be paid by Teck Resources	$ 1,079,208	$ 1,493,624	$ 2,067,175	$ 2,863,265	Line 11 x (1 + Line 9, Col E)
	Step 3: Determine Vale rate effective September 1, 2013					
12	Revised RSP allocation required		$ (271,584)			Line 5, Col C plus Line 10, Col F
13	Teck Resources RSP Surplus Adjustment rate effective September 1, 2013		**(7.92)** mills/kWh			Line 12/Line 5, Col A

Line No			I	J	K	
			Proposed Rates			
		Existing Rates	September 1 2013	September 1 2014	September 1 2015	
				Col I * (1 + Col E), Line 9	2013 Test Year	
	Step 4: Calculate 3-Year (Interim) Phase-In Rate Components					
14	Demand ($/kW/month)	6.68	6.68	9.25	9.13	
15	Energy (mills/kWh)	36.76	36.76		47.82	
16	Energy Rate Adjustment (mills/kWh)		(7.92)			Line 13, Col F
17	Net Energy Rate	36.76	28.84	39.92	47.82	
18	RSP (mills/kWh)	(20.00)				
19	Specifically Assigned Charges	$0	$0	$0	$533,724	

Line No			L	M	N	
			Revenue at Proposed Rates			
		Existing Rates	September 1 2013	September 1 2014	September 1 2015	
	Step 5: Revenue Proof					
20	Demand	$504,340	$504,340	$698,375	$689,315	Line 14 x Line 1, Col A
21	Energy	$1,260,868	$1,260,868	$1,369,256	$1,640,226	Line 15 x Line 2, Col A
22	Energy Adjustment		($271,584)			Line 12, Col F
23	Specifically Assigned Charges	$0	$0	$0	$533,724	Line 19
24	Subtotal	$1,765,208	$1,493,624	$2,067,631	$2,863,265	Line 20 to 23
25	RSP	($686,000)				Line 18 x Line 5, Col A
26	Total	$1,079,208	$1,493,624	$2,067,631	$2,863,265	Line 24 to 25
27	% Change year over year		**38.4%**	**38.4%**	**38.5%**	

Note (1): ((31.46 mills per kWh/83.48 mills per kWh))^(1/(2012-2015))-1

Estimated Phase-In Rates for the 2013 to 2015 Industrial Customer Rates Phase In effective September 1, 2013
Praxair

IC-NLH-14
Attachment 2

Line No		A		B		C	D		E	
		2013 Test Year		Existing Revenue including RSP at August 31 2013			Proposed Test Year Revenue			Reference
		Units		Rate		Revenue	Rate		Revenue	
	Step 1: Determine Annual Percentage Increase					A x B			A x D	
1	Demand	39,900	kW	6.68	$/kW/mo	$266,532	9.13	$/kW/mo	$364,287	
2	Energy	4,300	MWh	36.76	mills/kWh	$158,068	47.82	mills/kWh	$205,626	
3	Specifically Assigned Charges					$0			$0	
4	Subtotal					$424,600			$569,913	Line 1 to 3
5	RSP	4,300	MWh	(20.00)	mills/kWh	($86,000)		mills/kWh	$0	
6	Total					$338,600			$569,913	Line 4 to 5
7	Difference between Total Proposed Test Year Revenue and Existing								($231,313)	Line 6, Col C less Line 6, Col E
8	mills/kWh					78.74			132.54	Line 6/Line 2, Col A
9	Annual Required Increase								**19.0%**	See Note 1

Line No		Existing Rates	F September 1 2013	G September 1 2014	H September 1 2015	
	Step 2: Determine Annual Revenue					
10	Amount required to achieve 29.7% increase year over year		$ 64,334	$ 76,557	$ 90,422	
11	Revised Total to be paid by Teck Resources	$ 338,600	$ 402,934	$ 479,491	$ 569,913	Line 11 x (1 + Line 9, Col E)
	Step 3: Determine Teck Resources rate effective September 1, 2013					
12	Revised RSP allocation required		$ (21,666)			Line 5, Col C plus Line 10, Col F
13	Teck Resources RSP Surplus Adjustment rate effective September 1, 2013		**(5.04)** mills/kWh			Line 12/Line 5, Col A

Line No		Existing Rates	I Proposed Rates September 1 2013	J Proposed Rates September 1 2014	K Proposed Rates September 1 2015	
				Col I * (1 + Col E), Line 9	2013 Test Year	
	Step 4: Calculate 3-Year (Interim) Phase-In Rate Components					
14	Demand ($/kW/month)	6.68	6.68	7.95	9.13	
15	Energy (mills/kWh)	36.76	36.76		47.82	
16	Energy Rate Adjustment (mills/kWh)		(5.04)			Line 13, Col F
17	Net Energy Rate	36.76	31.72	37.75	47.82	
18	RSP (mills/kWh)	(20.00)				
19	Specifically Assigned Charges	$0	$0	$0	$0	

Line No		Existing Rates	L Revenue at Proposed Rates September 1 2013	M Revenue at Proposed Rates September 1 2014	N Revenue at Proposed Rates September 1 2015	
	Step 5: Revenue Proof					
20	Demand	$266,532	$266,532	$317,205	$364,287	Line 14 x Line 1, Col A
21	Energy	$158,068	$158,068	$162,325	$205,626	Line 15 x Line 2, Col A
22	Energy Adjustment		($21,666)			Line 12, Col F
23	Specifically Assigned Charges	$0	$0	$0	$0	Line 19
24	Subtotal	$424,600	$402,934	$479,530	$569,913	Line 20 to 23
25	RSP	($86,000)				Line 18 x Line 5, Col A
26	Total	$338,600	$402,934	$479,530	$569,913	Line 24 to 25
27	% Change year over year		**19.0%**	**19.0%**	**18.8%**	

Note (1): ((78.74 mills per kWh/132.54 mills per kWh))^(1/(2012-2015))-1

Estimated Phase-In Rates for the 2013 to 2015 Industrial Customer Rates Phase In effective September 1, 2013
Industrial Customers excluding Teck Resources, Vale and Praxair

IC-NLH-14
Attachment 3

Line No		A		B		C	D		E	
		2013 Test Year		Existing Revenue including RSP at August 31 2013			Proposed Test Year Revenue			Reference
		Units		Rate		Revenue	Rate		Revenue	
	Step 1: Determine Annual Percentage Increase					A x B			A x D	
1	Demand	606,000	kW	6.68	$/kW/mo	$4,048,080	9.13	$/kW/mo	$5,532,780	
2	Energy	298,000	MWh	36.76	mills/kWh	$10,954,480	47.82	mills/kWh	$14,250,360	
3	Specifically Assigned Charges					$498,143			$1,046,702	
4	Subtotal					$15,500,703			$20,829,842	Line 1 to 3
5	RSP (Teck, Vale and Praxair)	0	MWh	(20.00)	mills/kWh	$0		mills/kWh	$0	
6	RSP (Other Industrial Customers excluding Teck, Vale, and Praxair)	298,000	MWh	(7.85)	mills/kWh	($2,339,300)		mills/kWh	$0	
7	Total	298,000	MWh			$13,161,403			$20,829,842	Line 4 to 6
8	Difference between Total Proposed Test Year Revenue and Existing								($7,668,439)	Line 7, Col C less Line 7, Col E
9	mills/kWh					44.17			69.90	Line 7/Line 2, Col A
10	Annual Required Increase								**16.5%**	See Note 1

			F	G	H
			Phase-In Industrial Customer Rates		
		Existing Rates	September 1 2013	September 1 2014	September 1 2015
				Col F * (1 + Col E), Line 10	2013 Test Year
	Step 2: Calculate 3-Year (Interim) Phase-In Rate Components				
11	Demand ($/kW/month)	6.68	6.68	7.78	9.13
12	Energy (mills/kWh)	36.76	36.76	42.83	47.82
13	RSP (mills/kWh)	(7.85)			
14	Specifically Assigned Charges	$498,143	$498,143	$580,337	$1,046,702

			I	J	K	
			Revenue at Proposed Rates			
		Existing Rates	September 1 2013	September 1 2014	September 1 2015	
	Step 3: Revenue Proof					
15	Demand	$4,048,080	$4,048,080	$4,714,680	$5,532,780	Line 11 x Line 1, Col A
16	Energy	$10,954,480	$10,954,480	$12,763,340	$14,250,360	Line 12 x Line 2, Col A
17	Specifically Assigned Charges	$498,143	$498,143	$580,337	$1,046,702	Line 14
18	Subtotal	$15,500,703	$15,500,703	$18,058,357	$20,829,842	Line 15 to 17
19	RSP	($2,339,300)				Line 13 x Line 5, Col A
20	Total	$13,161,403	$15,500,703	$18,058,357	$20,829,842	Line 18 to 19
21	% Change year over year		**17.8%**	**16.5%**	**15.3%**	

Note (1): ((44.17 mills per kWh/69.90 mills per kWh))^(1/(2012-2015))-1