

ALBERTA NON-GRID RISK SHARING POOL FEBRUARY 2020 OPERATIONAL REPORT ACTUARIAL HIGHLIGHTS

Related Bulletin: Alberta Risk Sharing Pools - February 2020 Operational Reports

For your convenience, bookmarks have been added to this document. To view them, please click on the BOOKMARK tab at the left.

Should you require any further information, please call Shawn Doherty, Senior Vice President Actuarial & CFO at (416) 644-4968



ACTUARIAL HIGHLIGHTS

RSP ALBERTA NON-GRID

OPERATIONAL REPORT FEBRUARY 2020

TABLE OF CONTENTS

1	Sun	marv.		2
	1.1	Valua	tion Schedule (Fiscal Year 2020)	
	1.2	Appo	inted Actuary and Hybrid Actuarial Services Model	2
	1.3	Consi	deration of Recent Legal Decisions and Changes in Legislation / Regulation	3
	1.4		nt Provision Summary	
2	Acti	vity D	ring the Month of February 2020	4
			ded Premium and Claims Activity	
		2.1.a	Actual vs. Projected (AvsP): Earned Premium	5
		2.1.b	AvsP: Recorded Indemnity & Allowed Claims Expense	
		2.1.c	AvsP: Paid Indemnity & Allowed Claims Expense	8
	2.2	Actua	rial Provisions	10
3	Ulti	mate L	oss Ratio Matching Method	12
4	Cale	endar Y	Year-to-Date Results	12
5	Cur	rent O	perational Report – Additional Exhibits	13
6	EXI	HIBITS		13



1 Summary

Key Points

(a) The month's claims activities were generally aligned with projections from last month.

1.1 Valuation Schedule (Fiscal Year 2020)

The February 2020 Operational Report leverages actuarial assumptions consistent with last month (that is, it does not reflect the results of an updated valuation). The table below summarizes the valuation implementations scheduled for fiscal year 2020.

	ALBERTA NON-GRID RISK SHARING POOL FISCAL YEAR 2020 – SCHEDULE OF VALUATIONS								
Valuation Date Discount Rate (per annum)		Operational Report	Description of Changes						
Sep. 30, 2019 (completed)	1.46% mfad 25 bp	Oct. 2019	updated valuation (roll forward): accident year 2019 loss ratio <u>de</u> creased 2.6 points to 102.2%; discount rate <u>in</u> creased 3 basis points; no change to selected margins for adverse deviations						
Dec. 31, 2019	% mfad bp	Mar. 2020	update valuation						
Mar. 31, 2020	% mfad bp	May 2020	update valuation (roll-forward)						
Jun. 30, 2020	% mfad bp	Aug. 2020	update valuation						
Sep. 30, 2020	% mfad bp	Oct. 2020	update valuation (roll-forward)						

Under the proposed schedule for fiscal year 2020, the off-half valuation quarters ending March 31, 2020 and September 30, 2020 would not reflect a full valuation update of assumptions, but would rather roll-forward key assumptions from the previous valuation.

1.2 Appointed Actuary and Hybrid Actuarial Services Model

Mr. Cosimo Pantaleo of Ernst & Young LLP (EY) was appointed as Actuary by the FA Board at its February 18, 2020 meeting.

Facility Association operates under a hybrid model in relation to the management and provision of actuarial services. Under this model, actuarial services are performed by both Facility Association's internal staff and its external actuarial consulting firm. The hybrid model approach maximizes the efficiency of resource allocation while providing access to additional expertise and capacity as needed.



1.3 Consideration of Recent Legal Decisions and Changes in Legislation / Regulation¹

There have been no changes in these descriptions since last month's Highlights.

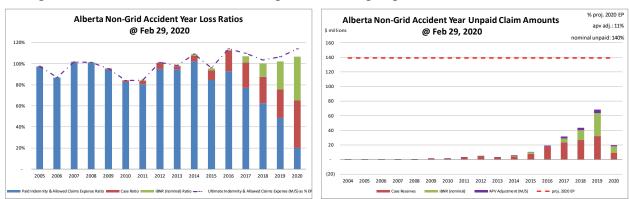
Consideration and assessment of potential impacts of legal decisions and changes in legislation / regulation constitutes a regular part of the valuation process. Descriptions of some of the more recent (i.e. within the last five years) changes are provided below.

In the **Alberta Treasury Board and Finance Notice 04-2018** (Clarification of Minor Injury Regulation), dated **May 17, 2018**, the Alberta Superintendent of Insurance advised that clarifying amendments have been made to the definition of minor injuries under the Minor Injury Regulation (MIR). With the **most recent** valuation September 30, 2019), reform adjustments related to changes in the definition of minor injuries under the MIR, were included with the updated industry trend analysis (completed using industry data as at December 31, 2018), impacting the selection of ultimates.

The Minister of Treasury Board and Finance issued Ministerial Order 14/2018, on October 31, 2018, which states unless otherwise directed by the Minister, the AIRB may not approve filings from insurers for cumulative rate increases on private passenger vehicles greater than +5.0% during the period between December 1, 2018 and August 31, 2019. This order lapsed in August 2019. At the current time, no explicit adjustments have been made to our valuation estimates or views based on this order.

1.4 Current Provision Summary

The charts below show the current levels of claim liabilities² booked by accident year³. The left chart displays life-to-date payments, case reserves, IBNR, and the total including actuarial present value adjustments against accident year earned premium. The right chart shows the associated dollar amounts for the components of the claim liabilities and the current projected amount of 2020 full year earned premium (the red hash-mark line) to provide some perspective.



"M/S" refers to "Member Statement" values – that is, actuarial present value adjustments at the selected discount rate.

¹This url to a pdf is to a helpful guide on how bills become laws: https://www.ola.org/sites/default/files/common/how-bills-become-law-en.pdf.

²Claim liabilities refer to provision for unpaid indemnity and allowed claims expenses. Allowed claims expenses are first party legal and other expenses as listed in the RSP Claims Guide. Claims expenses paid through the member company expense allowance are NOT included in this discussion.

³Accident year 2004 was an incomplete year and therefore has been excluded from the loss ratio chart.



The current actuarial present value adjustments balance (\$15.8 million – see table below) represents 11% of the earned premium projected for the full year 2020 (see the upper right corner of the right chart above). If our current estimates of the nominal unpaid amounts prove to match actual claims payments, the actuarial present value adjustments will be released into the net operating result over future periods.

claim	liabilities	(\$000s)
Clallii	Habilities	(20005)

	amt	%
case	133,385	63.2%
ibnr	62,045	29.4%
M/S apv adjust.	15,759	7.5%
M/S total	211,189	100.0%

The table to the left breaks down the Member Statement (M/S) claim liabilities total into component parts, showing that the majority of the claim liabilities for this RSP is in case reserves. Approximately 64% of the IBNR balance relates to accident years 2019 and 2020 (see Exhibit B). Approximately 86% of the M/S total claim

liabilities are related to accident years 2016-2020 inclusive (i.e. the most recent 5 accident years), and approximately 1% is related to accident years 2010 and prior (i.e. prior to the most recent 10 accident years).

The tables below summarize the premium liabilities and the total policy liabilities.

premium liabilities (\$000s)

policy liabilities (\$000	ICV	IIabii	lities	(\$UUUS)
---------------------------	-----	--------	--------	----------

•	· · /		1 /	,	
_	amt	%		amt	%
unearned prem	65,648	87.4%	claim	195,430	68.3%
prem def/(dpac)	4,748	6.3%	premium	70,396	24.6%
M/S apv adjust.	4,696	6.3%	M/S apv adjust.	20,455	7.1%
M/S total	75,092	100.0%	M/S total	286,281	100.0%

2 Activity During the Month of February 2020

2.1 Recorded Premium and Claims Activity

The table below summarizes the extent to which premiums and claims amounts recorded during the month differ from projections reflected in the prior month's Operational Report⁴.

Alberta Non-Grid RSP Actual vs Projected Summary: Recorded Transaction Amounts (\$ thousands)

Table 01	Earned P	romium	Paid Inde	emnity &	Case inc	crease /	Recorded	increase /
	Earrieu P	Territurii	Allowed Claims Expense		(decrease)		(decrease)	
Accident	A atural	Actual less	A atrial	Actual less	A atual	Actual less	A atrial	Actual less
Year	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected
Prior	(26)	(26)	1,840	(86)	(7)	1,664	1,833	1,578
2018	(44)	(44)	606	77	54	106	660	183
2019	(155)	(155)	3,105	(228)	(2,428)	(313)	677	(541)
2020	10,175	219	3,247	508	4,274	(1,495)	7,521	(987)
TOTAL	9,949	(6)	8,798	271	1,893	(38)	10,691	233

(Recorded transaction amounts exclude IBNR & other actuarial provisions)

It is unusual to see actual earned premium transactions affecting prior accident years beyond the first prior at this time in the calendar year –prior accident years changes in the month include activity

⁴There may be rounding differences in values in this document compared with the associated Bulletin and/or Operational Report.



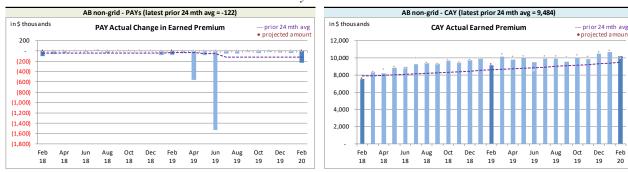
undertaken by a member reflecting recent audit findings.

Claims transaction activity is generally volatile and changes from one month to the next are anticipated due to this natural "process variance" (i.e. random variation). Each month, the projection variances are reviewed for signs of projection bias and to identify potential ways to reduce the level of the variance. Commentary from our review is provided in the sub-sections that follow.

2.1.a Actual vs. Projected (AvsP): Earned Premium

The charts below show actual **earned premium**⁵ activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

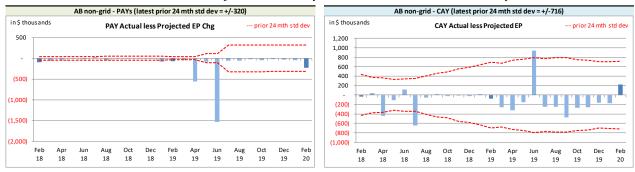
Alberta non-Grid RSP Actual Earned Premium by Calendar Month



Earned premium changes during a given calendar month in relation to prior accident years tend to be at modest levels, although relatively high levels generally occur at the beginning of each year.

The associated variance between the actual changes and the projections from the previous month are shown in the charts below. **Earned premium** change projections are all attributed to the current accident year as the projection upload does not accept **earned premium** changes for other accident years. We do not see this limitation as being significant for our purposes, but it does mean that the actual less projection variance will equal the actual **earned premium** change in relation to prior accident years.

Alberta non-Grid RSP Actual vs. Projected Summary: Earned Premium Variances by Calendar Month



⁵Premium is earned on a daily basis based on the transaction term measured in days. As a result, months with 31 days earned relatively more than those with 30 days, and February earns the least.



On Latest	\$ thousands	
Earned Premium	PAYs	CAY
Mthly Avg EP Chg (prior 24 mths)	(122)	9,484
std dev	320	716
A-P <> std dev	7	3
% <> std dev	28.0%	12.0%
norm <> std dev	31.7%	31.7%
performance vs 24-mth avg:	no better	better

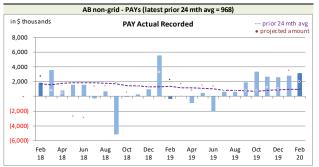
We project **earned premium** changes from known unearned premium and projected written premium levels, but upload the total projections as current accident year (CAY). This process has generated prior accident years' (PAYs) bias⁶, with actuals generally lower than projected, although the magnitude is not high relative to monthly premium. In addition to the PAYs' bias, the CAY

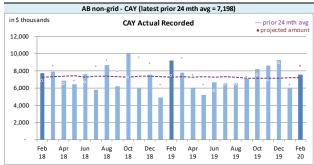
has also shown bias⁷, with actuals being generally lower than projected, modifications to our projections processes in response appears to have had a favourable impact, bias still exists. Over time, we may consider other projection approaches to narrow monthly variance levels, but it is not currently deemed a priority.

2.1.b AvsP: Recorded Indemnity & Allowed Claims Expense

The charts below show actual **recorded** activity (**paid** and case reserve changes), in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

Alberta non-Grid RSP Actual Recorded by Calendar Month





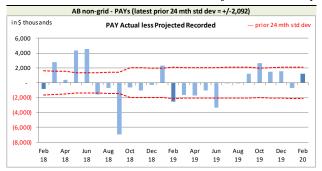
Recorded activity variances from the previous month's projections are shown in the charts at the top of the next page, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

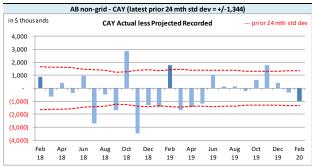
⁶The PAYs' variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

⁷We measure bias based on a 95% confidence range for a binominal distribution with trials based on the range being considered (25 in this case) and 50% probability of success. The rolling 25-month CAY variances at February 2020 had only 6 months where the actuals was higher than projected, and as the 95% confidence range is 8 to 17, bias continues to be indicated.



Alberta non-Grid RSP Actual vs Projected Summary: Recorded Variances by Calendar Month





On Latest	\$ thousand	S
Recorded	PAYs	CAY
Mthly Avg Recorded (prior 24 mths)	968	7,198
std dev	2,092	1,344
A-P <> std dev	9	9
% <> std dev	36.0%	36.0%
norm <> std dev	31.7%	31.7%
performance vs 24-mth avg:	no better	no better

With respect to **recorded** indemnity & allowed claims expense activity, 36% of the prior accident years' (PAYs) variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **recorded** amounts (see table on left), suggesting the projection process has performed no better than simply projecting the prior 24-month average amount (assuming it

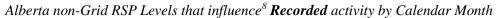
follows a normal distribution). Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (10 of 25 variances are positive).

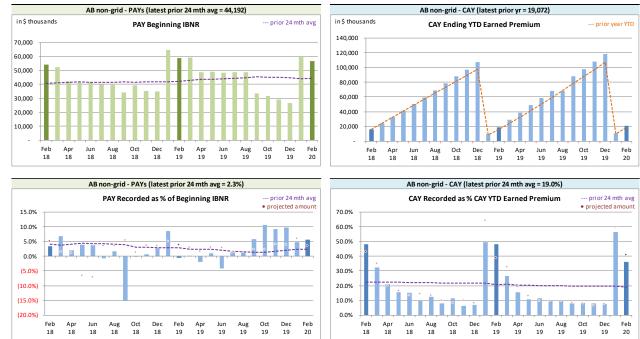
The current accident year (CAY) **recorded** variances fell outside of one standard deviation 36% of the time over the last 25 calendar months (see table above), suggesting that the projection process has performed no better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (11 of 25 variances are positive).

The method for establishing IBNR adjusts automatically for changes in **earned premium** and **recorded** claims activity level (see sections 2.2 and 3).

We have included, for reference, additional charts at the top of the next page related to levels influencing **recorded** activity.







We track PAY beginning IBNR as **recorded** activity comes out of IBNR. Changes in the PAY beginning IBNR (see upper left chart above) occur for several possible reasons:

- to offset actual **recorded** activity (through loss ratio matching);
- the annual switchover as a CAY becomes a PAY(occurs in January); and
- when a new valuation is implemented, where the valuation resulted in changes to the selection of PAYs' ultimates (will show up as a beginning IBNR change one month after the valuation is implemented, i.e. the change will generally show in April, June, September, and November).

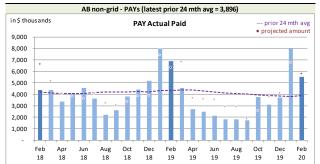
2.1.c AvsP: Paid Indemnity & Allowed Claims Expense

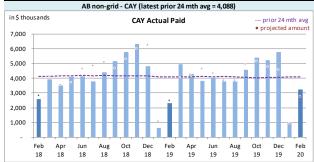
The charts at the top of the next page show actual **paid** activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

⁸Our recorded activity projections for the prior accident years are based on selected ratios of recorded activity to beginning unpaid balances, whereas the current accident year projections are based on selected ratios of year-to-date IBNR to year-to-date selected ultimate (i.e. selected LR x earned premium), deriving year-to-date recorded as selected ultimate less IBNR. In both cases, the ratio selection is based on our review of the more recent recorded activity and recent AvsP analyses.



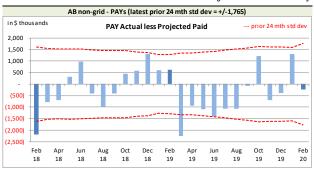
Alberta non-Grid RSP Actual Paid activity by Calendar Month

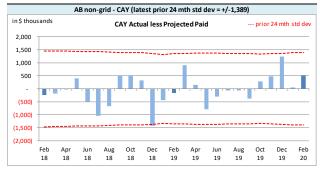




Paid activity variances from the previous month's projections are shown in the charts below, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

Alberta non-Grid RSP Actual vs Projected Summary: Paid Variances by Calendar Month





On Latest \$	On Latest \$ thousands						
Paid	PAYs	CAY					
Mthly Avg Paid (prior 24 mths)	3,896	4,088					
std dev	1,765	1,389					
A-P <> std dev	2	1					
% <> std dev	8.0%	4.0%					
norm <> std dev	31.7%	31.7%					
performance vs 24-mth avg:	better	better					

With respect to **paid** indemnity & allowed claims expense, 8% of the prior accident years' (PAYs) variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **paid** amounts (see table on left), suggesting the projection process has performed better than simply projecting the prior 24-month average amount (assuming it follows a normal

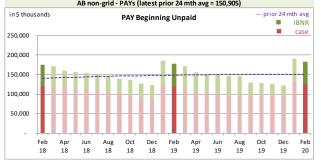
distribution). Bias has not been indicated at a 95% confidence level on a lagging 24-month basis (9 of 25 variances are positive).

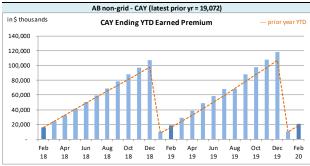
The current accident year (CAY) **paid** variances fell outside of one standard deviation 4% of the time over the last 25 calendar months (see table above), suggesting the projection process has performed better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (11 of 25 variances are positive).

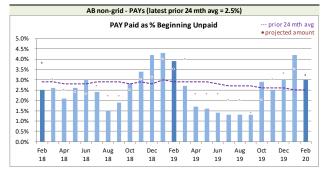
We have included, for reference, additional charts at the top of the next page related to levels influencing **paid** activity.

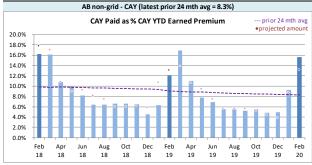












We track the PAY beginning unpaid balance (case and IBNR) as **paid** activity comes out of the unpaid balance. Changes in the PAY beginning unpaid balance (see upper left chart above) occur for several possible reasons:

- to offset actual **paid** activity (may reduce case or IBNR or both);
- the annual switchover as a CAY becomes a PAY (occurs in January); and
- when a new valuation is implemented, where the valuation resulted in changes to the selection of PAYs' ultimates (will show up as a beginning unpaid balance change one month after the valuation is implemented, i.e. the change will generally show in April, June, September, and November).

2.2 Actuarial Provisions

An ultimate loss ratio matching method (described in section 3) is used to determine the month's IBNR¹⁰, and factors are applied to the nominal unpaid claims liability (case plus IBNR) to determine the discount amount (shown as a negative value to indicate its impact of reducing the liability) and the Provisions for Adverse Deviations. The loss ratios and the factors used to determine the projections and actuals were based on the applicable valuation.

The table at the top of the next page summarizes variances in provisions included in this month's

⁹Our paid projections for the prior accident years are based on selected ratios of paid to beginning unpaid balances, whereas the current accident year projections are based on selected ratios of year-to-date paid to year-to-date selected ultimate indemnity (i.e. selected LR x earned premium). In both cases, the ratio selection is based on our review of the more recent recorded activity and recent AvsP analyses.

¹⁰For ease of discussion, "IBNR" is used in place of "provisions for incurred but not recorded (IBNR) and development".



Operational Report and the associated one-month projections from last month's Report.

Alberta Non-Grid RSP Actual vs Projected Summary: IBNR and APV Amounts (\$ thousands)

Table 02			actuarial present value adjustments					
IDND		Discount Amount		Provisions for Adverse		IBNR + actuarial present		
	IBNR		Discount Amount		Deviations		value adjustments	
Accident	Actual	Actual less	Actual	Actual less	Actual	Actual less	Actual	Actual less
Year	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected
Prior	8,794	(1,606)	(2,652)	1	8,247	(3)	14,389	(1,608)
2018	13,335	(227)	(1,523)	4	5,059	(16)	16,871	(239)
2019	31,214	383	(2,536)	(3)	7,683	8	36,361	388
2020	8,702	1,222	(720)	11	2,201	(33)	10,183	1,200
TOTAL	62,045	(228)	(7,431)	13	23,190	(44)	77,804	(259)

The IBNR provision is \$0.2 million lower than projected from last month, counterbalancing the recorded claims activity and adjusting for the earned premium variance impacts indicated in section 2.1.

Exhibit G shows the accident year IBNR amount change from last month to this month broken down into:

- (i) the change projected last month;
- (ii) the additional change due to variances in earned premium (because we apply a loss ratio to earned premium in determining ultimate level) and/or recorded claims (as IBNR is calculated as ultimate less recorded) differences; and
- (iii) the additional change due to valuation implementation impacts (as applicable)

The variances associated with (ii) above are discussed in sections 2.1.a and 2.1.b.

The table below summarizes the variances in the provisions for premium deficiency liability / (deferred policy acquisition cost asset) included in this month's Operational Report and the one-month projections from last month's Report. This RSP is in a premium deficiency position (shown as a positive amount) prior to and after actuarial present value adjustments. Actuarial present value adjustments increase the liability value as the adjustments increase the expected future policy obligations (costs) associated with the unearned premium. The variances noted are mainly driven by the unearned premium variance.

Alberta Non-Grid RSP Actual vs Projected Summary: Premium Deficiency / (DPAC) Amounts (\$ thousands)

Table 03	(Deferre	Deficiency / ed Policy on Costs)	Policy actuarial present valuation		Premium Deficiency / (DPAC) including actuarial present value adjustments	
	Actual	Actual less Projected	Actual	Actual less Projected	Actual	Actual less Projected
balance:	4,748	190	4,696	183	9,444	373
balance as % unearned premium:	7.2%	-	7.2%	-	14.4%	-

actual unearned premium: 65,648 less projected: 2,554



3 Ultimate Loss Ratio Matching Method

An "ultimate loss ratio matching method" continues to be applied to the current month and two projected months shown in the Operational Reports, with IBNR determined by accident year as follows:

- (a) Earned premium to-date
- (b) Ultimate loss¹¹ ratio per latest valuation
- (c) Estimated ultimate incurred = (a) x (b)
- (d) Recorded indemnity & allowed claims expense to-date
- (e) IBNR = (c) (d)

4 Calendar Year-to-Date Results

The table below summarizes the calendar year-to-date results for indemnity & allowed claims expenses 12, including IBNR.

In calculating the amounts as percentages of earned premium, the calendar year-to-date earned premium has been used, which includes earned premium associated with the current accident year but also earned premium adjustments related to prior accident years. Specifically, the current accident year (CAY) ratio in the table is 108.1% rather than 106.7% (the valuation ultimate ratio for accident year 2020), as the calendar year-to-date earned premium includes prior accident year earned premium adjustments. (Note that the ratios in this table may differ slightly from those shown in the Alberta Non-Grid RSP Summary of Operations due to rounding.)

Alberta Non-Grid RSP Calendar Year-to-Date Indemnity & Allowed Claims Expense Summary (\$ thousands)

Table 04	YTD Nominal Values		YTD actuarial present value adjustment		YTD To	tal	Change from Prior Month YTD	
	Amount	% EP	Amount	% EP	Amount	% EP	Amount	LR pts
PAYs	(276)	(1.3%)	(1,029)	(5.0%)	(1,305)	(6.3%)	(694)	(0.5%)
CAY	22,234	108.1%	1,481	7.2%	23,715	115.3%	11,483	0.1%
TOTAL	21,958	106.8%	452	2.2%	22,410	109.0%	10,789	(0.5%)

("% EP" based on 2020 calendar year-to-date earned premium; ratios may not total due to rounding)

In general, prior accident years (PAYs) changes from last month are due to the release of the actuarial present value adjustments with claims payments, except when valuations are implemented. The loss ratio change year-to-date in Table 04 reflects not only changes in the prior accident year levels, but also the increase in the calendar year-to-date earned premium with an additional month's earned premium.

For the current accident year (CAY), changes in the year-to-date total reflects the additional month's exposure and regular changes to actuarial present value adjustments as the year ages.

¹¹"Loss" here refers to indemnity and allowed claims expenses, but does not include the claims expense allowance included in member company overall expense allowances ("Expense Allowance" in the Operational Report).

¹²Allowed claims expenses are first party legal and other expenses as listed in the RSP Claims Guide. Claims expenses paid through the member company expense allowance are NOT included in this analysis.



5 Current Operational Report – Additional Exhibits

Section 6 provides exhibits pertaining to the actuarial provisions reflected in the current month's Operational Report.

IBNR (including actuarial present value adjustments) presented in section 6, Exhibit A, were derived on a discounted basis, and therefore reflect the time value of money and include an explicit provision for adverse deviations in accordance with accepted actuarial practice in Canada.

IBNR presented in section 6, Exhibit B, does NOT include any actuarial present value adjustments. The "Total IBNR" from this exhibit is shown in the Operational Report as "Undiscounted IBNR".

The ultimate loss ratios detailed in section 6, Exhibit B, refer to the estimates derived on the basis of various actuarial methodologies applied to the experience of the Alberta Non-Grid Risk Sharing Pool for the purposes of the most recent quarterly valuation. As discussed in section 3, IBNR reflected in the current month's Operational Report was derived as the difference between the estimated ultimate for the claims amount (i.e. earned premium x ultimate loss ratio) and the associated current recorded amounts (life-to-date payments plus current case reserves).

6 EXHIBITS

The exhibits listed below are provided on the pages that follow:

EXHIBIT A IBNR for Member Sharing – includes Actuarial Present Value Adjustments

EXHIBIT B IBNR

EXHIBIT C Premium Liabilities

EXHIBIT D Projected Year-end Policy Liabilities

EXHIBIT E Discount Rate & Margins for Adverse Deviations

EXHIBIT F Interest Rate Sensitivity

EXHIBIT G Components of IBNR Change During Month



EXHIBIT A

IBNR for Member Sharing – includes Actuarial Present Value Adjustments

T. D. E 5.4.11D.T.				. 4000					
TABLE EXHIBIT A	ABLE EXHIBIT A Amounts in \$000s								
IBNR + M/S actuarial present	Accident	Actual	Actual	Projected	Projected	Projected			
value adjustments	Year	Jan. 2020	Feb. 2020	Mar. 2020	Apr. 2020	Dec. 2020			
	2004	42	42	40	40	32			
	2005	13	13	13	12	11			
	2006	18	18	17	17	14			
	2007	(209)	(209)	(200)	(198)	(158)			
	2008	65	66	63	62	50			
	2009	(144)	(144)	(137)	(137)	(112)			
	2010	(149)	(149)	(144)	(143)	(116)			
	2011	408	407	392	385	301			
	2012	701	696	671	659	520			
	2013	97	451	434	428	338			
	2014	1,300	1,416	1,360	1,341	1,063			
discount rate	2015	2,787	2,373	2,279	2,249	1,781			
1.46%	2016	2,018	1,110	1,083	1,052	875			
	2017	9,443	8,299	7,935	7,540	5,209			
interest rate margin	2018	17,633	16,871	16,129	15,558	12,029			
25 basis pts	2019	37,462	36,361	35,783	35,336	31,196			
	2020	6,221	10,183	13,565	18,810	48,938			
	2021	-	-	-	-	-			
	TOTAL	77,706	77,804	79,283	83,011	101,971			
	Change		98	1,479	3,728				

Please see Exhibit G, page 1 for Components of Change during Current Month



EXHIBIT B

IBNR

TABLE EXHIBIT B				Amount	s in \$000s		
., ., ., ., ., ., ., ., ., ., ., ., ., .				711104110	5 III Ç 0005		
IBNR	Ultimate	Accident	Actual	Actual	Projected	Projected	Projected
	Loss Ratio	Year	Jan. 2020	Feb. 2020	Mar. 2020	Apr. 2020	Dec. 2020
	349.1%	2004	36	36	34	34	27
	97.4%	2005	5	5	5	5	5
	86.9%	2006	16	16	15	15	13
	101.5%	2007	(218)	(218)	(209)	(207)	(165)
	101.1%	2008	63	64	61	60	48
	95.3%	2009	(221)	(221)	(212)	(210)	(168)
	84.0%	2010	(218)	(218)	(209)	(207)	(165)
	84.1%	2011	209	208	199	197	156
	101.0%	2012	389	385	369	365	292
	98.1%	2013	(110)	251	240	238	190
	108.8%	2014	895	1,061	1,016	1,006	803
	95.4%	2015	2,153	1,754	1,680	1,663	1,329
	112.5%	2016	847	(46)	(41)	(41)	(28)
	107.0%	2017	6,809	5,717	5,397	5,035	3,106
	100.2%	2018	14,039	13,335	12,682	12,162	9,158
	102.2%	2019	32,049	31,214	30,902	30,593	27,074
	106.7%	2020	5,366	8,702	11,485	16,109	41,713
	108.7%	2021	-	-	-	-	-
		TOTAL	62,109	62,045	63,414	66,817	83,388
		Change		(64)	1,369	3,403	

Please see Exhibit G, page 2 for Components of Change during Current Month



EXHIBIT C

Premium Liabilities

TABLE EXHIBIT C	Amounts in \$000s							
	Actual	Actual	Projected	Projected	Projected			
Premium Liabilities	Jan. 2020	Feb. 2020	Mar. 2020	Apr. 2020	Dec. 2020			
(1) unearned premium (UP)	64,980	65,648	65,931	67,641	77,171			
FOR MEMBER SHARING								
(2) expected future costs ratio {% of (1)}	114.3%	114.4%	114.5%	114.6%	116.5%			
(3) expected future costs {(1) x (2)}(4) premium deficiency / (deferred policy	74,304	75,092	75,464	77,488	89,877			
acquisition cost)	9,324	9,444	9,533	9,847	12,706			
Excluding Actuarial Present Value Adjustments								
(5) expected future costs ratio {% of (1)}	107.2%	107.2%	107.3%	107.4%	109.2%			
(6) expected future costs {(1) x (5)}(7) premium deficiency / (deferred policy	69,656	70,396	70,743	72,642	84,255			
acquisition cost)	4,676	4,748	4,812	5,001	7,084			



EXHIBIT D

Projected Year-end Policy Liabilities

The table below presents the projected policy liabilities as at December 31, 2020, broken down by component.

Alberta non-Grid	Projected Balances as at Dec. 31, 2020 (\$000s)										
ending 2020	nominal values				actuarial present value adjustments (apvs)						
Acc Yr	Case	IBNR	Total Unpaid	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL	
2004	18	27	45	-	-	5	-	5	5	50	
2005	54	5	59	-	-	6	-	6	6	65	
2006	-	13	13	-	-	1	-	1	1	14	
2007	241	(165)	76	(1)	-	8	-	8	7	83	
2008	(29)	48	19	-	-	2	-	2	2	21	
2009	732	(168)	564	-	-	56	-	56	56	620	
2010	825	(165)	660	(18)	3	66	(2)	64	49	709	
2011	1,932	156	2,088	(67)	10	209	(7)	202	145	2,233	
2012	3,089	292	3,381	(118)	20	338	(12)	326	228	3,609	
2013	1,916	190	2,106	(67)	11	211	(7)	204	148	2,254	
2014	3,174	803	3,977	(147)	24	398	(15)	383	260	4,237	
2015	5,716	1,329	7,045	(261)	42	697	(26)	671	452	7,497	
2016	13,848	(28)	13,820	(511)	83	1,382	(51)	1,331	903	14,723	
2017	20,427	3,106	23,533	(871)	141	2,942	(109)	2,833	2,103	25,636	
2018	23,383	9,158	32,541	(1,237)	195	4,068	(155)	3,913	2,871	35,412	
2019	23,697	27,074	50,771	(2,031)	305	6,092	(244)	5,848	4,122	54,893	
PAYs (sub-total):	99,023	41,675	140,698	(5,329)	834	16,481	(628)	15,853	11,358	152,056	
CAY (2020)	46,183	41,713	87,896	(3,516)	615	10,548	(422)	10,126	7,225	95,121	
claims liabilities:	145,206	83,388	228,594	(8,845)	1,449	27,029	(1,050)	25,979	18,583	247,177	
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*	
premium liabilities:	77,171	7,084	84,255	(2,600)	419	8,053	(250)	7,803	5,622	89,877	
						*	Total may not be s	um of parts, as ap	vs apply to future	costs within UPR	
policy liabilities:			312,849	(11,445)	1,868	35,082	(1,300)	33,782	24,205	337,054	



EXHIBIT E

Discount Rate & Margins for Adverse Deviations

The tables below present selected margins for adverse development by coverage (the total is a weighted average, based on the unpaid claims projection for December 31, 2019 from the valuation), followed by the selected discount rate and the associated margin for investment income.

Selected Claims Development MfADs (Sep. 30, 2019)

			•	
Accident	Third Party	Accident	Other	Total
Year	Liability	Benefits	Coverages	TOtal
	Margins	Margins	Margins	Margins
2004	10.0%	10.0%	10.0%	10.0%
2005	10.0%	10.0%	10.0%	10.0%
2006	10.0%	10.0%	10.0%	10.0%
2007	10.0%	10.0%	10.0%	10.0%
2008	10.0%	10.0%	10.0%	10.0%
2009	10.0%	10.0%	10.0%	10.0%
2010	10.0%	10.0%	10.0%	10.0%
2011	10.0%	10.0%	10.0%	10.0%
2012	10.0%	10.0%	10.0%	10.0%
2013	10.0%	10.0%	8.1%	10.0%
2014	10.0%	10.0%	10.0%	10.0%
2015	10.0%	10.0%	8.9%	9.9%
2016	10.0%	10.0%	10.0%	10.0%
2017	12.5%	10.0%	12.5%	12.5%
2018	12.4%	10.0%	12.5%	12.5%
2019	12.2%	10.0%	11.0%	12.0%
2020	11.8%	10.0%	5.2%	9.6%
prem liab	11.8%	10.0%	5.2%	9.6%

discount rate: 1.46% margin (basis points): 25



EXHIBIT F

Interest Rate Sensitivity

The tables below present sensitivity to the member statement claims liability as projected to Dec. 31, 2019 from the latest valuation date (projections in exhibits A to D are to Dec. 31, 2020, and are based on more up-to-date information). We have included the most recent valuation selection (1.46%), the prior valuation assumption (1.43%) and the prior fiscal year end valuation assumption (2.29%) for comparative purposes. A 25 basis point margin for investment return adverse deviation is used in all scenarios presented.

\$ Format: \$000s

.	Actua	ial Present Va	iue of Provision	Jiis at vailous	Discount Nate	:S - Dec. 31, 20	119 projecteu t	Jiipaiu ?
	0.46%	0.96%	1.46%	1.96%	2.46%	2.96%	1.43%	2.29%
			-				-	-
	-	-	-	-	-	-	-	-
	1	1	1	1	1	1	1	1
	19	19	19	19	19	19	19	19
							<u> </u>	
	816	809	801	794	787	780	802	789
	1,358	1,343	1,328	1,313	1,299	1,285	1,328	1,304
	2,662	2,629	2,597	2,566	2,536	2,506	2,599	2,546
	4,790	4,736	4,685	4,634	4,585	4,537	4,688	4,602
	4,076	4,024	3,973	3,923	3,875	3,828	3,976	3,892
	6,938	6,847	6,759	6,672	6,589	6,507	6,763	6,618
	11,017	10,872	10,732	10,595	10,463	10,333	10,739	10,508
	20,786	20,515	20,253	19,997	19,749	19,509	20,266	19,833
	32,391	31,953	31,535	31,124	30,728	30,345	31,556	30,862
	47,550	46,877	46,229	45,597	44,984	44,390	46,261	45,189
	76,476	75,404	74,373	73,368	72,402	71,460	74,433	72,729
	208,880	206,029	203,285	200,603	198,017	195,500	203,431	198,892
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	curr + 150bp	prior val	prior fyr end
			assumption				assumption	assumption
Ì								
					o Valuation As		1	5
	0.46%	0.96%	Dollar Imp 1.46%	1.96%	2.46%	2.96%	1.43%	2.29%
	5,595	2,744	1.46% -	1.96% (2,682)	2.46% (5,268)	2.96% (7,785)	146	(4,393)
			1.46% - curr val	1.96% (2,682) curr + 50bp	2.46%	2.96%	146 prior val	(4,393) prior fyr end
	5,595	2,744	1.46% -	1.96% (2,682) curr + 50bp	2.46% (5,268)	2.96% (7,785)	146 prior val	(4,393)
	5,595	2,744	1.46% - curr val assumption	1.96% (2,682) curr + 50bp	2.46% (5,268) curr + 100bp	2.96% (7,785) curr + 150bp	146 prior val	(4,393) prior fyr end
	5,595 curr - 100 bp	2,744 curr - 50 bp	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ	2.46% (5,268) curr + 100bp	2.96% (7,785) curr + 150bp	prior val assumption	(4,393) prior fyr end assumption
	5,595	2,744	1.46% - curr val assumption	1.96% (2,682) curr + 50bp	2.46% (5,268) curr + 100bp	2.96% (7,785) curr + 150bp	146 prior val	(4,393) prior fyr end
	5,595 curr - 100 bp	2,744 curr - 50 bp	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ	2.46% (5,268) curr + 100bp	2.96% (7,785) curr + 150bp	prior val assumption	(4,393) prior fyr end assumption
	5,595 curr - 100 bp	2,744 curr - 50 bp	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ	2.46% (5,268) curr + 100bp	2.96% (7,785) curr + 150bp	prior val assumption	(4,393) prior fyr end assumption
	5,595 curr - 100 bp	2,744 curr - 50 bp	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ	2.46% (5,268) curr + 100bp	2.96% (7,785) curr + 150bp	prior val assumption	(4,393) prior fyr end assumption
	5,595 curr - 100 bp	2,744 curr - 50 bp	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ	2.46% (5,268) curr + 100bp	2.96% (7,785) curr + 150bp	prior val assumption	(4,393) prior fyr end assumption
	5,595 curr - 100 bp 0.46%	2,744 curr - 50 bp 0.96%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96%	2.46% (5,268) curr + 100bp e to Valuation 2.46%	2.96% (7,785) curr + 150bp Assumption 2.96%	146 prior val assumption 1.43%	(4,393) prior fyr end assumption 2.29%
	5,595 curr - 100 bp	2,744 curr - 50 bp 0.96% 1.0%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96%	2.46% (5,268) curr + 100bp e to Valuation 2.46%	2.96% (7,785) curr + 150bp Assumption 2.96%	prior val assumption	(4,393) prior fyr end assumption 2.29% (1.5%)
	5,595 curr - 100 bp	2,744 curr - 50 bp 0.96%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96% 	2.46% (5,268) curr + 100bp e to Valuation 2.46% (1.7%) (2.2%)	2.96% (7,785) curr + 150bp Assumption 2.96%	146 prior val assumption 1.43% 0.1%	(4,393) prior fyr end assumption 2.29% (1.5%) (1.8%)
	5,595 curr - 100 bp 0.46% 1.9% 2.3%	2,744 curr - 50 bp 0.96%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96% 	2.46% (5,268) curr + 100bp e to Valuation 2.46% (1.7%) (2.2%)	2.96% (7,785) curr + 150bp Assumption 2.96% 	146 prior val assumption 1.43%	(4,393) prior fyr end assumption 2.29% (1.5%) (1.8%) (2.0%)
	5,595 curr - 100 bp 0.46% 1.9% 2.3% 2.5% 2.2%	2,744 curr - 50 bp 0.96% 1.0% 1.1% 1.2%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96% (0.9%) (1.1%) (1.2%)	2.46% (5,268) curr + 100bp e to Valuation 2.46% (1.7%) (2.2%) (2.3%) (2.1%)	2.96% (7,785) curr + 150bp Assumption 2.96% 	146 prior val assumption 1.43%	(4,393) prior fyr end assumption 2.29% (1.5%) (1.8%) (2.0%) (1.8%)
	5,595 curr - 100 bp 0.46% 1.9% 2.3% 2.5% 2.2% 2.6%	2,744 curr - 50 bp 0.96%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96%	2.46% (5,268) curr + 100bp e to Valuation 2.46% 	2.96% (7,785) curr + 150bp Assumption 2.96% 	146 prior val assumption 1.43% 0.1% 0.1% 0.1% 0.1%	(4,393) prior fyr end assumption 2.29% (1.5%) (1.8%) (2.0%) (1.8%) (2.0%)
	5,595 curr - 100 bp 0.46% 1.9% 2.3% 2.5% 2.2% 2.6% 2.6%	2,744 curr - 50 bp 0.96%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96% 	2.46% (5,268) curr + 100bp e to Valuation 2.46% 	2.96% (7,785) curr + 150bp Assumption 2.96% 	146 prior val assumption 1.43% 0.1% 0.1% 0.1% 0.1% 0.1%	(4,393) prior fyr end assumption 2.29% (1.5%) (1.8%) (2.0%) (2.0%) (2.1%)
	5,595 curr - 100 bp 0.46%	2,744 curr - 50 bp 0.96% 1.0% 1.1% 1.2% 1.1% 1.3% 1.3%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96%	2.46% (5,268) curr + 100bp e to Valuation 2.46% 	2.96% (7,785) curr + 150bp Assumption 2.96% 	146 prior val assumption 1.43%	(4,393) prior fyr end assumption 2.29% (1.5%) (1.8%) (2.0%) (2.0%) (2.1%) (2.1%)
	5,595 curr - 100 bp 0.46% 1.9% 2.3% 2.5% 2.6% 2.6% 2.7% 2.6%	2,744 curr - 50 bp 0.96% 1.0% 1.1% 1.1% 1.3% 1.3% 1.3% 1.3%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96% (0.9%) (1.1%) (1.2%) (1.3%) (1.3%) (1.3%) (1.3%)	2.46% (5,268) curr + 100bp e to Valuation 2.46% 	2.96% (7,785) curr + 150bp Assumption 2.96% (2.6%) (3.2%) (3.5%) (3.5%) (3.5%) (3.7%) (3.7%) (3.7%)	146 prior val assumption 1.43%	(4,393) prior fyr end assumption 2.29% (1.5%) (1.8%) (2.0%) (1.8%) (2.0%) (2.1%) (2.1%) (2.1%)
	5,595 curr - 100 bp 0.46%	2,744 curr - 50 bp 0.96% 1.0% 1.1% 1.2% 1.1% 1.3% 1.3% 1.3% 1.3% 1.3%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96% (0.9%) (1.1%) (1.1%) (1.3%) (1.3%) (1.3%) (1.3%) (1.3%) (1.3%)	2.46% (5,268) curr + 100bp e to Valuation 2.46% 	2.96% (7,785) curr + 150bp Assumption 2.96% (2.6%) (3.2%) (3.5%) (3.5%) (3.7%) (3.7%) (3.7%) (3.8%) (3.8%)	146 prior val assumption 1.43% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	(4,393) prior fyr end assumption 2.29% (1.5%) (1.8%) (2.0%) (2.1%) (2.1%) (2.1%) (2.1%) (2.1%) (2.1%)
	5,595 curr - 100 bp 0.46%	2,744 curr - 50 bp 0.96% 1.0% 1.1% 1.2% 1.3% 1.3% 1.3% 1.3% 1.3% 1.3%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96% (0.9%) (1.1%) (1.2%) (1.3%) (1.3%) (1.3%) (1.3%) (1.3%) (1.3%) (1.4%)	2.46% (5,268) curr + 100bp e to Valuation 2.46% (1.7%) (2.2%) (2.3%) (2.5%) (2.5%) (2.5%) (2.5%) (2.5%) (2.5%) (2.5%) (2.5%) (2.5%) (2.5%)	2.96% (7,785) curr + 150bp Assumption 2.96% (3.2%) (3.2%) (3.5%) (3.7%) (3.7%) (3.7%) (3.7%) (3.8%) (4.0%)	146 prior val assumption 1.43% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	(4,393) prior fyr end assumption 2.29% (1.5%) (1.8%) (2.0%) (2.1%) (2.1%) (2.1%) (2.1%) (2.1%) (2.2%)
	5,595 curr - 100 bp 0.46% 1.9% 2.3% 2.5% 2.6% 2.6% 2.7% 2.6% 2.7% 2.9% 2.8%	2,744 curr - 50 bp 0.96%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96% (0.9%) (1.1%) (1.1%) (1.3%) (1.3%) (1.3%) (1.3%) (1.4%) (1.4%)	2.46% (5,268) curr + 100bp e to Valuation 2.46% 	2.96% (7,785) curr + 150bp Assumption 2.96% 	146 prior val assumption 1.43% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	(4,393) prior fyr end assumption 2.29% (1.5%) (1.8%) (2.0%) (2.1%) (2.1%) (2.1%) (2.1%) (2.2%) (2.2%)
	5,595 curr - 100 bp 0.46%	2,744 curr - 50 bp 0.96%	1.46% curr val assumption Percentage I 1.46%	1.96% (2,682) curr + 50bp mpact Relativ 1.96% (1.96% (1.1%) (1.1%) (1.3%) (1.3%) (1.3%) (1.4%) (1.4%) (1.3%) (1.4%) (1.3%) (1.4%) (1.3%)	2.46% (5,268) curr + 100bp e to Valuation 2.46% (1.7%) (2.2%) (2.1%) (2.5%) (2.5%) (2.5%) (2.5%) (2.5%) (2.7%) (2.7%) (2.7%) (2.6%)	2.96% (7,785) curr + 150bp Assumption 2.96% (2.6%) (3.2%) (3.5%) (3.5%) (3.7%) (3.7%) (3.7%) (4.0%) (3.9%) (3.9%) (3.9%) (3.8%)	146 prior val assumption 1.43% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	(4,393) prior fyr end assumption 2.29% (1.5%) (1.8%) (2.0%) (2.1%) (2.1%) (2.1%) (2.1%) (2.2%) (2.2%) (2.2%)
	5,595 curr - 100 bp 0.46% 1.9% 2.3% 2.5% 2.2% 2.6% 2.6% 2.7% 2.6% 2.7% 2.9% 2.8%	2,744 curr - 50 bp 0.96%	1.46% - curr val assumption Percentage I	1.96% (2,682) curr + 50bp mpact Relativ 1.96% (1.96% (1.1%) (1.1%) (1.3%) (1.3%) (1.3%) (1.4%) (1.3%) (1.4%) (1.3%) (1.4%) (1.3%) (1.4%) (1.3%) (1.4%) (1.3%) (1.4%) (1.3%) (1.4%) (1.3%) (1.4%) (1.3%) (1.4%) (1.3%) (1.4%) (1.5%)	2.46% (5,268) curr + 100bp e to Valuation 2.46% (1.7%) (2.2%) (2.1%) (2.5%) (2.5%) (2.5%) (2.5%) (2.5%) (2.7%) (2.7%) (2.7%) (2.6%)	2.96% (7,785) curr + 150bp Assumption 2.96% 	146 prior val assumption 1.43% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1% 0.1%	(4,393) prior fyr end assumption 2.29% (1.5%) (1.8%) (2.0%) (2.1%) (2.1%) (2.1%) (2.1%) (2.2%) (2.2%)



EXHIBIT G

Page 1 of 2

Components of Member Statement IBNR (i.e. "Discounted") Change During Month

RSP Alberta Non-Grid
AccountCode Desc IBNR - Discounted M/S IBNR - in \$000s

	Values						
AccYear	Sum of Prior Month Actual Amount	Sum of Projected Change	Sum of Change Due to AvsP Variances	Sum of Change Due to Valuation Implementation	Sum of Total Change	Sum of % Total Change	Sum of Current Month Final Amount
2004	42	-	-	-	-	-	42
2005	13	-	-	-	-	-	13
2006	18	-	-	-	-	-	18
2007	(209)	2	(2)	-	-	-	(209)
2008	65	(1)	2	-	1	1.5%	66
2009	(144)	(1)	1	-	-	-	(144)
2010	(149)	(2)	2	-	-	-	(149)
2011	408	(11)	10	-	(1)	(0.2%)	407
2012	701	(18)	13	-	(5)	(0.7%)	696
2013	97	(10)	364	-	354	364.9%	451
2014	1,300	(28)	144	-	116	8.9%	1,416
2015	2,787	(52)	(362)	-	(414)	(14.9%)	2,373
2016	2,018	(68)	(840)	-	(908)	(45.0%)	1,110
2017	9,443	(204)	(940)	-	(1,144)	(12.1%)	8,299
2018	17,633	(523)	(239)	-	(762)	(4.3%)	16,871
2019	37,462	(1,489)	388	-	(1,101)	(2.9%)	36,361
2020	6,221	2,762	1,200	-	3,962	63.7%	10,183
Grand Total	77,706	357	(259)	-	98	0.1%	77,804



EXHIBIT G

Page 2 of 2

Components of IBNR (i.e. "Undiscounted") Change During Month

RSP Alberta Non-Grid
AccountCode Desc IBNR - Undiscounted IBNR - in \$000s

	Values						
AccYear	Sum of Prior Month Actual Amount	Sum of Projected Change	Sum of Change Due to AvsP Variances	Sum of Change Due to Valuation Implementation	Sum of Total Change	Sum of % Total Change	Sum of Current Month Final Amount
2004	36	-	-	-	-	-	36
2005	5	-	-	-	-	-	5
2006	16	-	-	-	-	-	16
2007	(218)	2	(2)	-	-	-	(218)
2008	63	(1)	2	-	1	1.6%	64
2009	(221)	2	(2)	-	-	-	(221)
2010	(218)	2	(2)	-	-	-	(218)
2011	209	(2)	1	-	(1)	(0.5%)	208
2012	389	(4)	-	-	(4)	(1.0%)	385
2013	(110)	1	360	-	361	(328.2%)	251
2014	895	(9)	175	-	166	18.5%	1,061
2015	2,153	(22)	(377)	-	(399)	(18.5%)	1,754
2016	847	(47)	(846)	-	(893)	(105.4%)	(46)
2017	6,809	(177)	(915)	-	(1,092)	(16.0%)	5,717
2018	14,039	(477)	(227)	-	(704)	(5.0%)	13,335
2019	32,049	(1,218)	383	-	(835)	(2.6%)	31,214
2020	5,366	2,114	1,222	-	3,336	62.2%	8,702
Grand Total	62,109	164	(228)	-	(64)	(0.1%)	62,045