

ALBERTA GRID RISK SHARING POOL DECEMBER 2020 OPERATIONAL REPORT ACTUARIAL HIGHLIGHTS

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ACTUARIAL HIGHLIGHTS

RSP ALBERTA GRID

OPERATIONAL REPORT DECEMBER 2020

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1 Summary

Key Points

(a) The month's Current Accident Year claims activities were lower than projected; the activity was reviewed and attributed to low levels of reported physical damage claim activities in the month.

1.1 Valuation Schedule (Fiscal Year 2021)

The December 2020 Operational Report leverages actuarial assumptions consistent with last month (that is, it does not reflect the results of an updated valuation). The following table summarizes the valuation implementations scheduled for fiscal year 2021.

	ALBERTA GRID RISK SHARING POOL FISCAL YEAR 2021 – SCHEDULE OF VALUATIONS							
Valuation Date	Discount Rate (per annum)	Operational Report	Description of Changes					
Sep. 30, 2020 (completed)	0.20% mfad ¹ 25 bp	Oct. 2020	update valuation (roll-forward): accident year 2020 loss ratio <u>de</u> creased 6.3 points to 70.6%; discount rate <u>de</u> creased 4 basis points; no change to selected margins for adverse deviations					
Dec. 31, 2020	% mfad bp	Mar. 2021	update valuation:					
Mar. 31, 2021	% mfad bp	May 2021	update valuation (roll-forward):					
Jun. 30, 2021	% mfad bp	Aug. 2021	update valuation:					
Sep. 30, 2021	% mfad bp	Oct. 2021	update valuation (roll-forward):					

Under the proposed schedule for fiscal year 2021, the off-half valuation quarters ending March 31, 2021 and September 30, 2021 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

The Annual General Meeting of the members of Facility Association ("FA") appointed Mr. Cosimo Pantaleo as the Appointed Actuary at its meeting on February 20, 2020.

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

¹ The selected interest rate margin is limited to reducing the selected discount rate to 0%; the approach is that if the net impact is negative, the discount rate will be capped at 0%.



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 / Regulation²

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, 2020), consideration of 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, 2019).

Amendments to the Alberta Automobile Accident Insurance Benefits Regulation, Diagnostic and Treatment Protocols Regulation, and Minor Injury Regulation came into force effective November 1, 2020, amending definitions and various benefit maximums defined in these regulations. Alberta Bill 41 (Insurance (Enhancing Driver Affordability and Care) Amendment Act, 2020) received royal assent on December 9, 2020. Bill 41 amends the Insurance Act to: 1) control the use of expert witnesses in Court of Queen's Bench proceedings where damages for bodily injury or death arising from use or operation of a motor vehicle as defined in the Traffic Safety Act are claimed; 2) introduce direct compensation for property damage (DCPD) into the province; 3) amend the calculation of pre-judgment interest on damages awarded for bodily injury or death arising directly or indirectly form the use or operation of an automobile; and 4) amend provisions regarding the regulation of auto insurance rates by the Alberta Automobile Insurance Rate Board. At the current time, no explicit adjustments have been made to our valuation estimates or views based on the amendments to the various Regulations and introduction of Bill 41. The impact will be assessed with the next valuation (as at December 31, 2020) and as part of the next Industry valuation and trend analysis (as at June 30, 2020).

1.4 Current Provision Summary

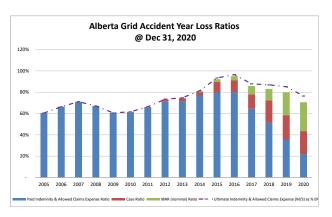
The following charts show the current levels of claim liabilities³ booked by accident year⁴. The left chart displays life-to-date payments, case reserves, IBNR, and the total including actuarial present value adjustments against accident year earned premium. The right chart shows the associated dollar 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.

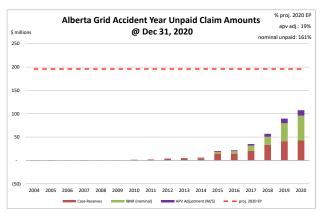
²This url to a pdf is to a helpful guide on how bills become laws: https://www.ola.org/sites/default/files/common/how-bills-become-law-en.pdf

³Claim 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.

⁴Accident year 2004 was an incomplete year and therefore has been excluded from the loss ratio chart.







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

The current actuarial present value adjustments balance (\$36.6 million – see the following table) represents 19% of the earned premium projected for the full year 2020 (see the upper right corner of the preceding chart on the right). 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)

	amt	%
case	183,570	52.1%
ibnr	132,087	37.5%
M/S apv adjust.	36,563	10.4%
M/S total	352,220	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 70% of the IBNR balance relates to accident years 2019 and 2020 (see Exhibit B). Approximately 88% 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 following tables summarize the premium liabilities and the total policy liabilities.

premium liabilities (\$000s)

(4000)						
	amt	%				
unearned prem	101,914	115.7%				
prem def/(dpac)	(21,780)	(24.7%)				
M/S apv adjust.	7,940	9.0%				
M/S total	88,074	100.0%				

policy liabilities (\$000s)

_	amt	%
claim	315,657	71.7%
premium	80,134	18.2%
M/S apv adjust.	44,503	10.1%
M/S total	440,294	100.0%

2 Activity During the Month of December 2020

2.1 Recorded Premium and Claims Activity

The following table summarizes the extent to which premiums and claims amounts recorded during the month differ from projections reflected in the prior month's Operational Report⁵.

⁵There may be rounding differences in values in this document compared with the associated Bulletin and/or Operational Report.



							(-/
Table 01	1 Earned Premium		Paid Indemnity &		Case increase /		Recorded increase /	
	Earneu F	remium	Allowed Claims Expense		(decrease)		(decrease)	
Accident	A atrial	Actual less	Actual	Actual less	Actual	Actual less	A atrial	Actual less
Year	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected
Prior	(0)	(0)	3,250	(1,138)	(2,476)	1,308	774	170
2018	(7)	(7)	1,172	(75)	(330)	679	841	603
2019	(45)	(45)	883	(569)	(931)	(860)	(48)	(1,429)
2020	16,098	26	4,519	(1,771)	3,173	(3,173)	7,692	(4,944)
TOTAL	16,046	(26)	9,823	(3,554)	(563)	(2,046)	9,260	(5,599)

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

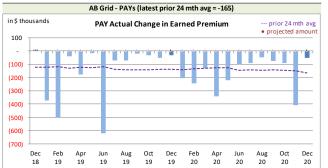
(Recorded transaction amounts exclude IBNR & other actuarial provisions)

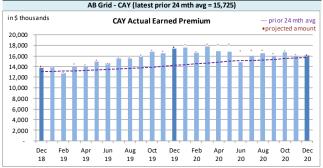
Claims transaction activity is generally volatile; changes from one month to the next are anticipated due to this natural "process variance" (i.e. random variation). Each month, the projection variances are reviewed for signs of projection bias and to identify potential ways to reduce the level of the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

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

The following charts show actual **earned premium**⁶ 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 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.

On Latest \$ thousands					
Earned Premium	PAYs	CAY			
Mthly Avg EP Chg (prior 24 mths)	(165)	15,725			
std dev	169	1,346			
A-P <> std dev	9	1			
% <> std dev	36.0%	4.0%			
norm <> std dev	31.7%	31.7%			
performance vs 24-mth avg:	no better	better			

The associated variances between the actual changes and the projections from the previous month are shown in the following charts. **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

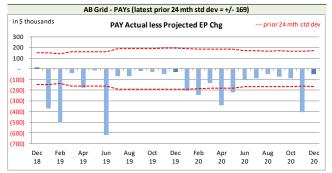
that the actual less projection variance will equal the actual earned premium change in relation to

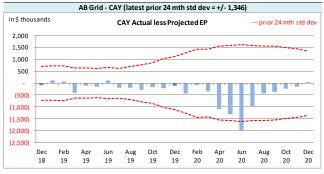
⁶Premium is earned on a daily basis based on the transaction term measured in days. As a result, months with 31 days earned relatively more than those with 30 days, and February earns the least.



prior accident years.

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



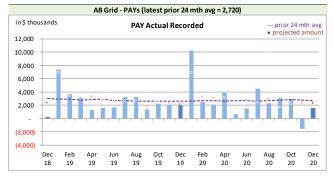


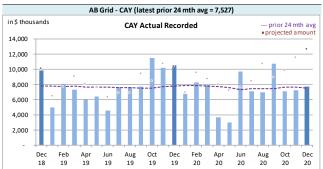
We project **earned premium** changes from known unearned premium balances and projected written premium levels, but upload the total projections as current accident year (CAY). This process has generated prior accident years' (PAYs) bias⁷, with actuals generally lower than projected, although the magnitude is not high relative to monthly premium. In addition to the PAYs' bias, the CAY has also shown bias⁸, with actuals being generally lower than projected, and while we modified our projections processes in response, bias still exists. Over time, we may consider other projection approaches to address the bias issue, but it has not currently deemed as a priority.

2.1.b AvsP: Recorded Indemnity & Allowed Claims Expense

The following charts 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 Grid RSP Actual Recorded by Calendar Month





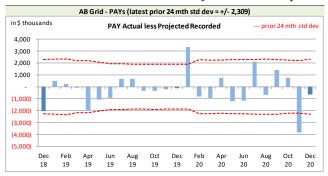
Recorded activity variances from the previous month's projections shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

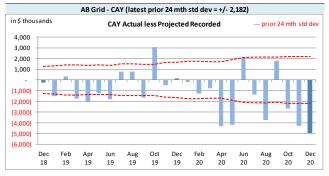
⁷The PAYs' variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

⁸We 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 December 2020 has only 4 months where the actuals were higher than projected, and as the 95% confidence range is 8 to 17, bias continues to be indicated.



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





On Latest 5	\$ thousands	S
Recorded	PAYs	CAY
Mthly Avg Recorded (prior 24 mths)	2,720	7,527
std dev	2,309	2,182
A-P <> std dev	2	13
% <> std dev	8.0%	52.0%
norm <> std dev	31.7%	31.7%
performance vs 24-mth avg:	better	worse

With respect to **recorded** indemnity & allowed claims expense activity, 8% 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 better than simply projecting the prior 24-month average amount (assuming it follows a

normal distribution). Bias⁹ has not been indicated at a 95% confidence level on a rolling 25-month basis (9 of 25 variances were positive).

The current accident year (CAY) **recorded** variances fell outside of one standard deviation 52% of the time over the last 25 calendar months (see preceding table on the left), suggesting that the projection process has performed worse than simply projecting the prior 24-month average amount. Bias has been indicated at a 95% confidence level on a lagging 24-month basis (7 of 25 variances were positive). Through 2020, our CAY recorded projections have been generally higher than actual activity; 2020 has been a challenging year to project loss estimates, particularly with changes in RSP volumes and portfolio mix driven by Member transfer activity. We are working with our Appointed Actuary to adjust and refine our 2020 and 2021 accident year estimates to reflect the impact of COVID-19 and Member transfer activity.

The CAY **recorded** variance was outside of the one standard deviation band this month (see preceding chart on the right). The lower than projected recorded activity was reviewed and attributed to low levels of reported physical damage claims activities in the month.

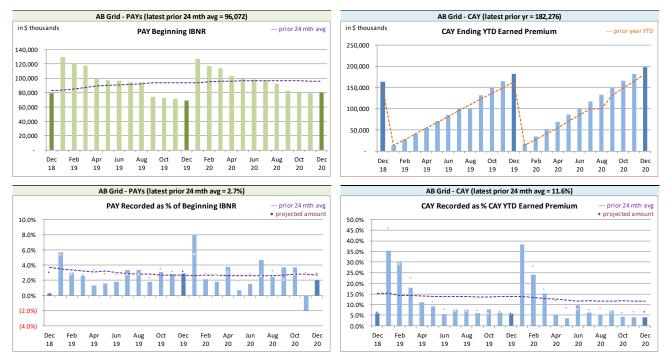
The method for establishing IBNR adjusts automatically for changes in **earned premium** and **recorded** claims activity level (see sections 2.2 and 3).

We have included, for reference, additional charts below related to levels influencing **recorded** activity. Note in particular the changes in the level of PAY beginning IBNR over the months, as a response to valuations and showing up as a beginning IBNR change one month after the valuation is implemented (i.e. April, June, September, and November).

⁹ For the binomial distribution with 25 trials and an assumed 50% success probability, the 95% confidence range is 8 to 17 successes. That is, favourable or unfavourable counts of 0 to 7 or 18 to 25 out of 25 outcomes would suggest bias.



Alberta Grid RSP Levels that influence 10 Recorded activity by Calendar Month



We track PAY beginning IBNR as **recorded** activity comes out of IBNR. Changes in the PAY beginning IBNR (see upper left of the preceding group of charts) 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).

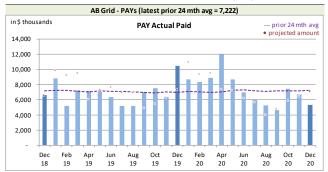
2.1.c AvsP: Paid Indemnity & Allowed Claims Expense

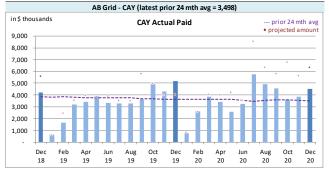
The following charts show actual **paid** activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

¹⁰Our 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.



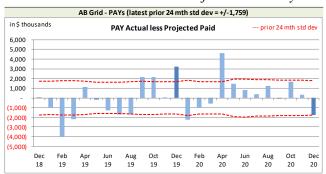
Alberta Grid RSP Actual Paid activity by Calendar Month

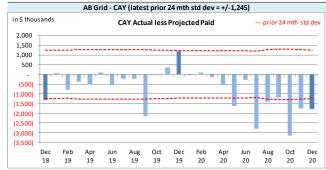




Paid activity variances from the previous month's projections shown in the following charts, including the prior 24-month standard deviation levels to show how the variances from projection compare with historical standard deviations.

Alberta 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)	7,222	3,498		
std dev	1,759	1,245		
A-P <> std dev	10	8		
% <> std dev	40.0%	32.0%		
norm <> std dev	31.7%	31.7%		
performance vs 24-mth avg:	worse	no better		

With respect to **paid** indemnity & allowed claims expense, 40% 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 worse than simply projecting the prior 24-month average amount (assuming it follows a normal distribution),

and we are actively looking into the projection process for means of improving this result. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (13 of 25 variances are positive).

The PAY **paid** variance was just outside the one standard deviation band this month (see preceding chart on the left), the lower than projected recorded activity was reviewed and attributed to process variance.

The current accident year (CAY) **paid** variances fell outside one standard deviation 32% of the time over the last 25 calendar months (see preceding table on the left), suggesting the projection process has performed no better than simply projecting the prior 24-month average amount. Bias has been indicated at a 95% confidence level on a rolling 25-month basis (5 of 25 variances are positive).

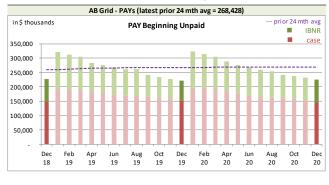
The CAY paid variance was outside the one standard deviation band this month (see preceding chart

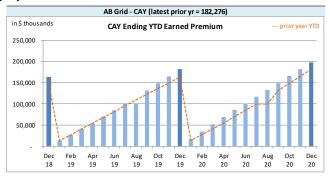


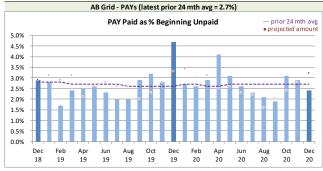
on the right) the lower projected recorded activity was reviewed and attributed to low levels of reported physical damage claim activities in the month.

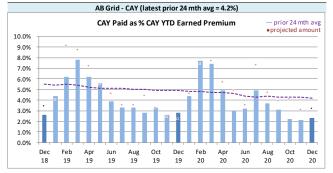
We have included, for reference, the following charts related to levels influencing paid activity.

Alberta Grid RSP Levels that influence¹¹ Paid activity by Calendar Month









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 of the preceding group of charts) 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 IBNR¹², 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

¹¹Our 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.

¹²For ease of discussion, "IBNR" is used in place of "provisions for incurred but not recorded (IBNR) and development".



Provisions for Adverse Deviations. The loss ratios and the factors used to determine the projections and actuals based on the applicable valuation.

The following table summarizes variances in provisions included in this month's Operational Report and the associated one-month projections from last month's Report.

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

Table 02	Table 02			arial present v	alue adjustm	ents		
	IBNR		Discount	Discount Amount Provisions for Adverse		IBNR + actuarial present		
	IRINK		Discount	Amount	Devia	ations	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	22,635	(172)	(415)	(4)	9,298	118	31,518	(58)
2018	17,498	(610)	(254)	(1)	6,567	10	23,811	(601)
2019	38,380	1,393	(478)	(3)	10,384	68	48,286	1,458
2020	53,574	4,962	(576)	(10)	12,037	224	65,035	5,176
TOTAL	132,087	5,573	(1,723)	(18)	38,286	420	168,650	5,975

The IBNR provision is \$5.6 million higher 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 years IBNR amount change from last month to this month are broken down:

- (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 following table 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 deferred policy acquisition cost asset position (shown as a negative amount) prior to and after actuarial present value adjustments. Actuarial present value adjustments decrease the asset 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 Grid RSP Actual vs Projected Summary: Premium Deficiency / (DPAC) Amounts (\$ thousands)	Alberta Grid RSP Actual	vs Projected Summary:	Premium Deficiency /	(DPAC) Amounts ((\$ thousands)
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Table 03		Premium D (Deferre Acquisitio	d Policy	actuarial present value adjustments		Premium Deficiency / (DPAC) including actuarial present value adjustments	
		Actual	Actual less	Actual	Actual less	Actual	Actual less
		Actual	Projected	Actual	Projected	Actual	Projected
	balance:	(21,780)	513	7,940	(180)	(13,840)	333
	balance as % unearned premium:	(21.4%)	-	7.8%	-	(13.6%)	-

actual unearned premium: 101,914 less projected: (2,309)

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 loss¹³ 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 following table summarizes the calendar year-to-date results for indemnity & allowed claims expenses¹⁴, 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 71.3% rather than 70.6% (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 Grid RSP Summary of Operations due to rounding.)

¹³"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).

¹⁴Allowed 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.



Alberta Grid RSP Calendar	Year-to-Date Indemnit	y & Allowed Claims Ex	xpense 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	(14,876)	(7.6%)	(527)	(0.3%)	(15,403)	(7.9%)	(629)	0.3%
CAY	139,708	71.3%	11,461	5.9%	151,169	77.2%	12,182	(0.1%)
TOTAL	124,832	63.7%	10,934	5.6%	135,766	69.3%	11,553	0.2%

("% 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 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.

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 shown in the Operational Report as "Undiscounted IBNR".

The ultimate loss ratios presented in section 6, Exhibit B, refer to the estimates derived based on various actuarial methodologies applied to the experience of the Alberta 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



$\label{eq:exhibit} \mbox{EXHIBIT A}$ $\mbox{IBNR for Member Sharing} - \mbox{includes Actuarial Present Value Adjustments}$

TABLE EXHIBIT A			Amount	s in \$000s		
IDND + M/C actuarial procent	Assidant	Actual	A stual	Drainatad	Drainstad	Droinstad
IBNR + M/S actuarial present	Accident	Actual	Actual	Projected	Projected	Projected
value adjustments	Year	Nov. 2020	Dec. 2020	Jan. 2021	Feb. 2021	Dec. 2021
	2004	(70)	(70)	(68)	(67)	(50)
	2005	13	13	13	13	9
	2006	(119)	(119)	(116)	(114)	(83)
	2007	162	150	146	142	102
	2008	29	29	29	28	22
	2009	28	44	43	42	31
	2010	168	125	123	119	84
	2011	147	147	144	139	98
	2012	802	694	676	660	475
	2013	942	927	904	882	638
	2014	1,449	1,891	1,843	1,800	1,312
discount rate	2015	5,902	5,716	5,573	5,443	3,957
0.20%	2016	8,304	7,213	7,029	6,870	5,004
	2017	14,860	14,758	14,185	13,912	9,456
interest rate margin	2018	24,806	23,811	23,211	22,246	16,499
25 basis pts	2019	48,389	48,286	46,700	46,036	35,789
·	2020	60,545	65,035	60,003	57,722	46,462
	2021	-	-	8,444	12,900	73,523
	TOTAL	166,357	168,650	168,882	168,773	193,328
	Change		2,293	232	(109)	

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



EXHIBIT B

IBNR

TABLE EXHIBIT B	Ī	Amounts in \$000s						
IBNR	Ultimate Loss Ratio	Accident Year	Actual Nov. 2020	Actual Dec. 2020	Projected Jan. 2021	Projected Feb. 2021	Projected Dec. 2021	
	51.6%	2004	(78)	(78)	(76)	(74)	(55)	
	60.5%	2005	(26)	(26)	(25)	(24)	(17)	
	66.3%	2006	(129)	(129)	(126)	(123)	(90)	
	71.1%	2007	83	83	81	79	57	
	67.1%	2008	8	8	8	8	8	
	60.6%	2009	8	24	23	23	17	
	61.5%	2010	23	(19)	(19)	(19)	(14)	
	66.2%	2011	(37)	(37)	(36)	(35)	(26)	
	73.2%	2012	410	303	295	289	212	
	74.5%	2013	481	469	457	448	330	
	80.9%	2014	817	1,319	1,285	1,259	927	
	92.2%	2015	3,979	3,887	3,786	3,710	2,726	
	95.0%	2016	6,244	5,242	5,106	5,004	3,679	
	85.8%	2017	11,628	11,589	11,067	10,846	7,162	
	83.0%	2018	18,346	17,498	16,973	16,090	11,626	
	79.7%	2019	38,368	38,380	36,922	36,405	27,848	
	70.6%	2020	49,901	53,574	49,288	47,563	38,416	
	78.3%	2021	=	-	6,933	10,236	58,706	
		TOTAL	130,026	132,087	131,942	131,685	151,512	
		Change		2,061	(145)	(257)		

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



EXHIBIT C

Premium Liabilities

TABLE EXHIBIT C		Amount	s in \$000s		
	Actual	Actual	Projected	Projected	Projected
Premium Liabilities	Nov. 2020	Dec. 2020	Jan. 2021	Feb. 2021	Dec. 2021
(1) unearned premium (UP)	105,249	101,914	100,949	100,572	132,264
FOR MEMBER SHARING					
(2) expected future costs ratio {% of (1)}	85.1%	86.4%	86.4%	86.5%	88.6%
(3) expected future costs {(1) x (2)}	89,614	88,074	87,260	86,976	117,212
(4) premium deficiency / (deferred policy					
acquisition cost)	(15,635)	(13,840)	(13,689)	(13,596)	(15,052)
Excluding Actuarial Present Value Adjustments					
(5) expected future costs ratio {% of (1)}	77.5%	78.6%	78.6%	78.7%	80.6%
(6) expected future costs {(1) x (5)}	81,536	80,134	79,393	79,135	106,644
(7) premium deficiency / (deferred policy					
acquisition cost)	(23,713)	(21,780)	(21,556)	(21,437)	(25,620)



EXHIBIT D

Projected Year-end Policy Liabilities

The table below presents the projected policy liabilities as at December 31, 2021, broken down by component.

Alberta Grid	Projected Balances as at Dec. 31, 2021 (\$000s)									
ending 2021		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	1	(55)	(54)	-	-	5	-	5	5	(49
2005	279	(17)	262	-	-	26	-	26	26	288
2006	157	(90)	67	-	-	7	-	7	7	74
2007	392	57	449	(1)	1	45	-	45	45	494
2008	137	8	145	-	-	14	-	14	14	159
2009	120	17	137	-	-	14	-	14	14	151
2010	991	(14)	977	(3)	3	98	-	98	98	1,075
2011	1,272	(26)	1,246	(5)	5	125	(1)	124	124	1,370
2012	2,428	212	2,640	(11)	11	264	(1)	263	263	2,903
2013	2,757	330	3,087	(9)	9	309	(1)	308	308	3,395
2014	2,930	927	3,857	(12)	12	386	(1)	385	385	4,242
2015	9,633	2,726	12,359	(49)	49	1,236	(5)	1,231	1,231	13,590
2016	9,642	3,679	13,321	(67)	67	1,332	(7)	1,325	1,325	14,646
2017	15,894	7,162	23,056	(115)	115	2,306	(12)	2,294	2,294	25,350
2018	27,550	11,626	39,176	(196)	196	4,897	(24)	4,873	4,873	44,049
2019	36,001	27,848	63,849	(319)	319	7,981	(40)	7,941	7,941	71,790
2020	29,044	38,416	67,460	(405)	405	8,095	(49)	8,046	8,046	75,506
PAYs (sub-total):	139,228	92,806	232,034	(1,192)	1,192	27,140	(141)	26,999	26,999	259,033
CAY (2021)	65,513	58,706	124,219	(745)	745	14,906	(89)	14,817	14,817	139,036
claims liabilities:	204,741	151,512	356,253	(1,937)	1,937	42,046	(230)	41,816	41,816	398,069
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*
premium liabilities:	132,264	(25,620)	106,644	(531)	531	10,621	(53)	10,568	10,568	117,212
						*	Total may not be s	um of parts, as ap	vs apply to future	costs within UPR
policy liabilities:			462,897	(2,468)	2,468	52,667	(283)	52,384	52,384	515,281



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, 2020 from the valuation), followed by the selected discount rate and the associated margin for investment income.

Selected Claims Development MfADs (Sep. 30, 2020)

			•	
Accident	Third Party	Accident	Other	Total
Year	Liability	Benefits	Coverages	10tai
	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%	10.0%	10.0%
2014	10.0%	10.0%	10.0%	10.0%
2015	10.0%	10.0%	10.0%	10.0%
2016	10.0%	10.0%	9.6%	10.0%
2017	10.0%	10.0%	10.0%	10.0%
2018	12.5%	10.0%	12.5%	12.5%
2019	12.5%	10.0%	12.5%	12.5%
2020	12.2%	10.0%	8.4%	12.0%
2021	11.9%	10.0%	5.1%	10.0%
prem liab	11.9%	10.0%	5.1%	10.0%

discount rate: 0.20%

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, 2020 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 (0.20%), the prior valuation assumption (0.24%) and the prior fiscal year end valuation assumption (1.44%) for comparative purposes. A 25 basis point margin for investment return adverse deviation is used in all scenarios presented.

\$ Format: \$000s

			lue of Provision				1	
AY	0.00%	0.00%	0.20%	0.70%	1.20%	1.70%	0.24%	1.44%
004	-	-	-	-	-	-	-	-
005	228	228	228	228	228	227	228	227
006	216	216	216	215	214	213	216	214
007	702	702	702	699	695	691	702	693
80	313	313	313	311	309	306	313	308
009	202	202	202	200	199	197	202	198
10	1,297	1,297	1,297	1,286	1,275	1,264	1,297	1,270
11	1,914	1,914	1,914	1,899	1,882	1,866	1,914	1,874
12	3,606	3,606	3,605	3,577	3,547	3,518	3,605	3,533
13	5,451	5,451	5,449	5,407	5,361	5,316	5,449	5,339
14	7,596	7,596	7,593	7,523	7,448	7,373	7,593	7,412
15	20,119	20,119	20,110	19,903	19,679	19,460	20,110	19,575
16	22,484	22,484	22,474	22,246	22,001	21,760	22,474	21,886
17	34,436	34,436	34,420	34,045	33,642	33,250	34,417	33,452
18	57,644	57,644	57,612	56,928	56,190	55,478	57,605	55,848
19	89,348	89,348	89,289	88,105	86,828	85,588	89,279	86,232
20	104,517	104,517	104,450	103,010	101,458	99,964	104,439	100,750
al	350,073	350,073	349,874	345,582	340,956	336,471	349,843	338,811
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	curr + 150bp	prior val	prior fyr end
			assumption				assumption	assumption
			Dollar Imp	oact Relative t	o Valuation As	sumption		
_	0.00%	0.00%	0.20%	0.70%	1.20%	1.70%	0.24%	1.44%
I	199	199	-	(4,292)	(8,918)	(13,403)	(31)	(11,063
_			curr val	(4,292) curr + 50bp		(13,403)	(31) prior val	(11,063 prior fyr end
_	199	199	-	(4,292) curr + 50bp	(8,918)	(13,403)	(31) prior val	(11,063 prior fyr end
	199	199	curr val assumption	(4,292) curr + 50bp	(8,918) curr + 100bp	(13,403) curr + 150bp	(31) prior val	(11,063 prior fyr end
al	199 curr - 100 bp	199 curr - 50 bp	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ	(8,918) curr + 100bp e to Valuation	(13,403) curr + 150bp Assumption	(31) prior val assumption	(11,063 prior fyr end assumption
ral Y	199	199	curr val assumption	(4,292) curr + 50bp	(8,918) curr + 100bp	(13,403) curr + 150bp	(31) prior val	(11,063 prior fyr end
tal Y	199 curr - 100 bp	199 curr - 50 bp	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ	(8,918) curr + 100bp e to Valuation	(13,403) curr + 150bp Assumption	(31) prior val assumption	(11,063 prior fyr end assumption
Y 04	199 curr - 100 bp	199 curr - 50 bp	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ	(8,918) curr + 100bp e to Valuation	(13,403) curr + 150bp Assumption 1.70% - (0.4%)	(31) prior val assumption	(11,063 prior fyr enc assumption 1.44%
Y 04_05	199 curr - 100 bp	199 curr - 50 bp	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ 0.70% - - (0.5%)	(8,918) curr + 100bp e to Valuation	(13,403) curr + 150bp Assumption 1.70%	(31) prior val assumption	(11,063 prior fyr end assumption 1.44%
7 04 05 06	199 curr - 100 bp	199 curr - 50 bp	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ 0.70%	(8,918) curr + 100bp e to Valuation 1.20%	(13,403) curr + 150bp Assumption 1.70% - (0.4%)	(31) prior val assumption	(11,063 prior fyr end assumption 1.44% - (0.4% (0.9%
y 04 05 06 07 08	199 curr - 100 bp	199 curr - 50 bp	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ 0.70% - - (0.5%)	(8,918) curr + 100bp e to Valuation 1.20%	(13,403) curr + 150bp Assumption 1.70% - (0.4%) (1.4%)	(31) prior val assumption	(11,063 prior fyr end assumption 1.44% (0.4% (0.9% (1.3%
Y 04 05 06 07 08	199 curr - 100 bp	199 curr - 50 bp	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ 0.70%	(8,918) curr + 100bp e to Valuation 1.20% (0.9%)	(13,403) curr + 150bp Assumption 1.70% (0.4%) (1.4%) (2.2%) (2.5%)	(31) prior val assumption	(11,063 prior fyr end assumption 1.44% (0.4% (0.9% (1.3% (1.6%
Y 04 05 06 07 08 09 10	199 curr - 100 bp	199 curr - 50 bp	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ 0.70% (0.5%) (0.4%) (0.6%)	(8,918) curr + 100bp e to Valuation 1.20% (0.9%) (1.0%) (1.3%)	(13,403) curr + 150bp Assumption 1.70% (0.4%) (1.6%) (2.2%) (2.5%) (2.5%)	(31) prior val assumption	(11,063 prior fyr end assumption 1.44% (0.9% (1.3% (1.6% (2.0% (2.1%
Y 04 05 06 07 08 09 10	199 curr - 100 bp	199 curr - 50 bp	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ 0.70% (0.5%) (0.4%) (0.6%) (1.0%)	(8,918) curr + 100bp e to Valuation 1.20% (0.9%) (1.0%) (1.3%) (1.5%)	(13,403) curr + 150bp Assumption 1.70% (0.4%) (1.4%) (1.6%) (2.2%) (2.5%) (2.5%)	(31) prior val assumption	(11,063 prior fyr end assumption 1.44% (0.9% (1.3% (1.6% (2.0% (2.1%
Y 04 05 06 07 08 09 10 11 12	0.00% 0.00% 0.00%	0.00%	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ 0.70% (0.5%) (0.4%) (0.6%) (1.0%)	(8,918) curr + 100bp e to Valuation 1.20% (0.9%) (1.0%) (1.3%) (1.5%) (1.7%)	(13,403) curr + 150bp Assumption 1.70% (0.4%) (1.6%) (2.2%) (2.5%) (2.5%)	(31) prior val assumption	(11,063 prior fyr end assumption 1.44% (0.9% (1.3% (1.6% (2.0% (2.1% (2.1%
7 04 05 06 07 08 09 10 11	0.00% 0.00% 0.00% 0.00% 0.00%	0.00% 0.00%	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ 0.70% (0.5%) (0.4%) (0.8%) (0.8%) (0.8%) (0.8%) (0.8%) (0.8%)	(8,918) curr + 100bp e to Valuation 1.20% (0.9%) (1.0%) (1.5%) (1.7%) (1.6%) (1.6%)	(13,403) curr + 150bp Assumption 1.70% - (0.4%) (1.6%) (2.2%) (2.5%) (2.5%) (2.4%) (2.4%)	(31) prior val assumption	(11,063 prior fyr end assumption 1.44% (0.4% (0.9% (1.3% (1.6% (2.1% (2.1% (2.1% (2.0% (2.0%
Y 04 05 06 07 08 09 10 11 12 13	0.00% 0.00% 0.00%	0.00%	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ 0.70% (0.5%) (0.4%) (0.6%) (0.8%) (0.8%) (0.8%)	(8,918) curr + 100bp e to Valuation 1.20%	(13,403) curr + 150bp Assumption 1.70%	(31) prior val assumption	(11,063 prior fyr end assumption 1.44% (0.4% (0.9% (1.3% (1.6% (2.1% (2.1% (2.1% (2.0% (2.0%
y y y y y y y y y y y y y y y y y y y	199 curr - 100 bp	0.00% 0.00% 0.0% 0.0% 0.0% 0.0%	curr val assumption Percentage I	(4,292) curr +50bp mpact Relativ 0.70% (0.5%) (0.4%) (0.6%) (1.0%) (0.8%) (0.8%) (0.8%) (0.9%) (1.0%)	(8,918) curr + 100bp e to Valuation 1.20% (0.9%) (1.0%) (1.5%) (1.7%) (1.6%) (1.6%) (1.9%) (2.1%)	(13,403) curr + 150bp Assumption 1.70% (0.4%) (1.6%) (2.2%) (2.5%) (2.5%) (2.4%) (2.4%) (2.9%) (3.2%)	(31) prior val assumption	(11,063 prior fyr end assumption 1.44% (0.4% (0.9% (1.3% (1.6% (2.0% (2.1% (2.0% (2.0% (2.0% (2.0% (2.0%
Y 204 205 206 207 208 209 211 11 12 213 314 215 116	199 curr - 100 bp 0.00% 0.0% 0.0% 0.0% 0.0	0.00% 0.00% 0.0% 0.0% 0.0% 0.0%	curr val assumption Percentage I	(4,292) curr +50bp mpact Relativ 0.70% (0.5%) (0.4%) (0.6%) (1.0%) (0.8%) (0.8%) (0.8%) (0.9%) (1.0%) (1.0%) (1.0%)	(8,918) curr + 100bp e to Valuation 1.20% (0.9%) (1.0%) (1.5%) (1.7%) (1.6%) (1.9%) (2.1%) (2.1%)	(13,403) curr + 150bp Assumption 1.70% (0.4%) (1.6%) (2.2%) (2.5%) (2.5%) (2.4%) (2.4%) (2.9%) (3.2%) (3.2%) (3.2%)	(31) prior val assumption 0.24%	(11,063 prior fyr end assumption 1.44% (0.9% (1.3% (1.6% (2.0% (2.1% (2.0% (2.0% (2.0% (2.0% (2.0% (2.0% (2.0% (2.0%
Y 1004 1005 1006 1007 1008 1009 1010 1011 1011 1011 1011 1011	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	0.00%	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ 0.70%	(8,918) curr + 100bp e to Valuation 1.20%	(13,403) curr + 150bp Assumption 1.70% (0.4%) (1.4%) (2.2%) (2.5%) (2.5%) (2.4%) (2.4%) (3.2%) (3.2%) (3.4%)	(31) prior val assumption 0.24%	(11,063 prior fyr end assumption 1.44% (0.9% (1.3% (2.0% (2.1% (2.1% (2.0% (2.4% (2.7% (2.6% (2.8%
NY 1814 19004 1900 1900 1900 1900 1900 1900 1	0.00% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	0.00% 0.00%	curr val assumption Percentage I	(4,292) curr +50bp mpact Relativ 0.70% (0.5%) (0.4%) (0.6%) (1.0%) (0.8%) (0.8%) (0.8%) (0.9%) (1.0%) (1.0%) (1.0%)	(8,918) curr + 100bp e to Valuation 1.20% (0.9%) (1.0%) (1.5%) (1.7%) (1.6%) (1.9%) (2.1%) (2.1%)	(13,403) curr + 150bp Assumption 1.70% (0.4%) (1.6%) (2.2%) (2.5%) (2.5%) (2.4%) (2.4%) (2.9%) (3.2%) (3.2%) (3.2%)	(31) prior val assumption 0.24% (0.0%) (0.0%)	(11,063 prior fyr end assumption 1.44% (0.4% (0.9% (1.3% (1.6% (2.0% (2.1% (2.0% (2.0% (2.4% (2.7% (2.6% (2.8% (3.1%
Y 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019	0.00% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	0.00% 0.00% 0.00% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1%	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ 0.70% (0.5%) (0.4%) (0.8%) (0.8%) (0.8%) (0.9%) (1.0%) (1.0%) (1.1%) (1.1%) (1.2%)	(8,918) curr + 100bp e to Valuation 1.20% (0.9%) (1.0%) (1.5%) (1.7%) (1.6%) (1.9%) (2.1%) (2.1%) (2.3%) (2.5%) (2.8%)	(13,403) curr + 150bp Assumption 1.70% - (0.4%) (1.6%) (2.5%) (2.5%) (2.5%) (2.4%) (2.9%) (3.2%) (3.2%) (3.2%) (3.2%) (3.2%) (3.4%) (4.1%)	(31) prior val assumption 0.24%	(11,063 prior fyr end assumption 1.44% (0.4% (0.9% (1.3% (1.6% (2.1% (2.1% (2.1% (2.0% (2.6% (2.6% (2.8% (3.1% (3.4%
Y 004 005 006 007 008 009 01111 112 113 114 115 116 117 118 119 119 120	0.00% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	0.00% 0.00% 0.00% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.1% 0.1%	curr val assumption Percentage I	(4,292) curr +50bp mpact Relativ 0.70% (0.5%) (0.4%) (0.6%) (0.8%) (0.8%) (0.8%) (0.9%) (1.0%) (1.0%) (1.1%) (1.2%) (1.3%) (1.4%)	(8,918) curr + 100bp e to Valuation 1.20% (0.9%) (1.0%) (1.3%) (1.7%) (1.6%) (1.6%) (2.1%) (2.1%) (2.2%) (2.5%) (2.8%) (2.9%)	(13,403) curr + 150bp Assumption 1.70% (0.4%) (1.4%) (2.2%) (2.5%) (2.5%) (2.4%) (2.9%) (3.2%) (3.2%) (3.2%) (3.2%) (3.7%)	(31) prior val assumption 0.24% (0.0%) (0.0%) (0.0%) (0.0%)	(11,063 prior fyr end assumption 1.44% (0.4% (0.9% (1.3% (1.6% (2.1% (2.1% (2.1% (2.0% (2.6% (2.6% (2.8% (3.1% (3.4%
Y Y 24 25 25 26 27 27 27 27 27 27 27 27 27 27 27 27 27	0.00% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	0.00% 0.00% 0.00% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1%	curr val assumption Percentage I	(4,292) curr + 50bp mpact Relativ 0.70% (0.5%) (0.4%) (0.8%) (0.8%) (0.8%) (0.9%) (1.0%) (1.0%) (1.1%) (1.1%) (1.2%)	(8,918) curr + 100bp e to Valuation 1.20% (0.9%) (1.0%) (1.5%) (1.7%) (1.6%) (1.9%) (2.1%) (2.1%) (2.3%) (2.5%) (2.8%)	(13,403) curr + 150bp Assumption 1.70% - (0.4%) (1.6%) (2.5%) (2.5%) (2.5%) (2.4%) (2.9%) (3.2%) (3.2%) (3.2%) (3.2%) (3.2%) (3.4%) (4.1%)	(31) prior val assumption 0.24% (0.0%) (0.0%) (0.0%)	(11,063 prior fyr end assumption 1.44% (0.4% (0.9% (1.3% (1.6% (2.1% (2.1% (2.1% (2.0% (2.6% (2.6% (2.8% (3.1% (3.4%
Y Y 1004 1005 1006 1007 1008 1009 110 111 112 113 114 115 116 117 118	0.00% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	0.00% 0.00% 0.00% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.1% 0.1%	curr val assumption Percentage I	(4,292) curr +50bp mpact Relativ 0.70% (0.5%) (0.4%) (0.6%) (0.8%) (0.8%) (0.8%) (0.9%) (1.0%) (1.0%) (1.1%) (1.2%) (1.3%) (1.4%)	(8,918) curr + 100bp e to Valuation 1.20% (0.9%) (1.0%) (1.3%) (1.7%) (1.6%) (1.6%) (2.1%) (2.1%) (2.2%) (2.5%) (2.8%) (2.9%)	(13,403) curr + 150bp Assumption 1.70% - (0.4%) (1.6%) (2.2%) (2.5%) (2.5%) (2.5%) (2.4%) (2.9%) (3.2%) (3.2%) (3.4%) (3.7%) (4.1%) (4.3%) (3.8%)	(31) prior val assumption 0.24% (0.0%) (0.0%) (0.0%) (0.0%)	(11,063 prior fyr end assumption 1.44% (0.4% (0.9% (1.3% (2.10% (2.11% (2.10% (2.10% (2.2.0% (2.4% (2.7% (2.6% (2.8% (3.11% (3.4% (3.5%



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

RSP	Alberta Grid
AccountCoo	le Desc IBNR - Discounted

	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	(70)	-	-	-	-	-	(70)
2005	13	(2)	2	-	-	-	13
2006	(119)	-	-	-	-	-	(119)
2007	162	(6)	(6)	-	(12)	(7.4%)	150
2008	29	(1)	1	-	-	-	29
2009	28	(1)	17	-	16	57.1%	44
2010	168	(8)	(35)	-	(43)	(25.6%)	125
2011	147	(11)	11	-	-	-	147
2012	802	(28)	(80)	-	(108)	(13.5%)	694
2013	942	(33)	18	-	(15)	(1.6%)	927
2014	1,449	(45)	487	-	442	30.5%	1,891
2015	5,902	(155)	(31)	-	(186)	(3.2%)	5,716
2016	8,304	(449)	(642)	-	(1,091)	(13.1%)	7,213
2017	14,860	(302)	200	-	(102)	(0.7%)	14,758
2018	24,806	(394)	(601)	-	(995)	(4.0%)	23,811
2019	48,389	(1,561)	1,458	-	(103)	(0.2%)	48,286
2020	60,545	(686)	5,176	-	4,490	7.4%	65,035
Grand Total	166,357	(3,682)	5,975	-	2,293	1.4%	168,650



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

RSP Alberta 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	(78)	1	(1)	-	-	-	(78)
2005	(26)	-	-	-	-	-	(26)
2006	(129)	1	(1)	-	-	-	(129)
2007	83	(1)	1	-	-	-	83
2008	8	-	-	-	-	-	8
2009	8	-	16	-	16	200.0%	24
2010	23	-	(42)	-	(42)	(182.6%)	(19)
2011	(37)	-	-	-	-	-	(37)
2012	410	(4)	(103)	-	(107)	(26.1%)	303
2013	481	(5)	(7)	-	(12)	(2.5%)	469
2014	817	(8)	510	-	502	61.4%	1,319
2015	3,979	(40)	(52)	-	(92)	(2.3%)	3,887
2016	6,244	(362)	(640)	-	(1,002)	(16.0%)	5,242
2017	11,628	(186)	147	-	(39)	(0.3%)	11,589
2018	18,346	(238)	(610)	-	(848)	(4.6%)	17,498
2019	38,368	(1,381)	1,393	-	12	-	38,380
2020	49,901	(1,289)	4,962	-	3,673	7.4%	53,574
Grand Total	130,026	(3,512)	5,573	-	2,061	1.6%	132,087