



**ALBERTA GRID RISK SHARING POOL**

**JUNE 2017 OPERATIONAL REPORT**

**ACTUARIAL HIGHLIGHTS**

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**ACTUARIAL HIGHLIGHTS**

**RSP ALBERTA GRID**

**OPERATIONAL REPORT**

**JUNE 2017**

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## 1 Summary

### 1.1 Valuation Schedule (Fiscal Year 2017)

The June 2017 Operational Report leverages actuarial assumptions consistent with last month (that is, it does not reflect the results of an updated valuation). The table immediately below summarizes the implemented valuations and future scheduled valuations for fiscal year 2017.

| ALBERTA GRID RISK SHARING POOL<br>FISCAL YEAR 2017 – SCHEDULE OF VALUATIONS |                           |                    |   |
|---|---------------------------|--------------------|---|
| Valuation Date  | Discount Rate (per annum) | Operational Report | Description of Changes  |
| Sep. 30, 2016 (completed)   | 0.54%<br>mfad: 25 bp      | Oct. 2016          | updated valuation (roll forward): accident year 2016 loss ratio increased 2.0 points to 83.5%; discount rate decreased by 6 basis points; no change to selected margins for adverse deviations  |
| Dec. 31, 2016 (completed)   | 1.06%<br>mfad: 25 bp      | Mar. 2017          | updated valuation: accident year 2016 loss ratio increased 5.8 points to 89.3%; accident year 2017 loss ratio increased 6.3 points to 84.2%; discount rate increased by 52 basis points; no change to selected margins for adverse deviations |
| Mar. 31, 2017 (completed)   | 0.98%<br>mfad: 25 bp      | May 2017           | updated valuation (roll forward): accident year 2017 loss ratio increased 2.3 points to 86.5%; discount rate decreased by 8 basis points; no change to selected margins for adverse deviations  |
| Jun. 30, 2017   |                           | Aug. 2017          | update valuation:   |
| Sep. 30, 2017   |                           | Oct. 2017          | update valuation (roll forward):  |

Under the proposed schedule for fiscal year 2017, the “off-half” valuation quarters ending March 31, 2017 and September 30, 2017 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

Liam McFarlane of Ernst & Young LLP is Facility Association’s Appointed Actuary (effective as of June 1, 2013).

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 / Regulation

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 changes are provided below (there have been no changes in these descriptions since last month's Highlights).

The **Supreme Court of Canada** rendered its judgment on **Saadati v Moorhead (2017 SCC 28, rendered on Jun 2, 2017)**. Saadati was involved in a collision in July of 2005 in British Columbia and sued the at-fault driver for damages. According to the Supreme Court decision, *“The trial judge found that the ... accident caused S psychological injuries, including personality change and cognitive difficulties. ...and awarded S \$100,000 for non-pecuniary damages.”* The trial decision was appealed to the BC Court of Appeal where the trial's \$100,000 non-pecuniary award was dismissed. The Supreme Court upheld the \$100,000 non-pecuniary award, determining:

- *“A finding of legally compensable mental injury need not rest, in whole or in part, on the claimant proving a recognized psychiatric injury.”*
- *“...a trier of fact adjudicating a claim of mental injury is not concerned with diagnosis, but with symptoms and their effects.”*
- *“Expert evidence can assist in determining whether or not a mental injury has been shown, but where psychiatric diagnosis is unavailable, it remains open to a trier of fact to find on other evidence adduced by the claimant that he or she has proven on a balance of probabilities the occurrence of mental injury.”*

At the current time, no adjustments have been made to our valuation estimates or views based on the judgment as rendered, but we continue to review and consider the implications of the judgment.

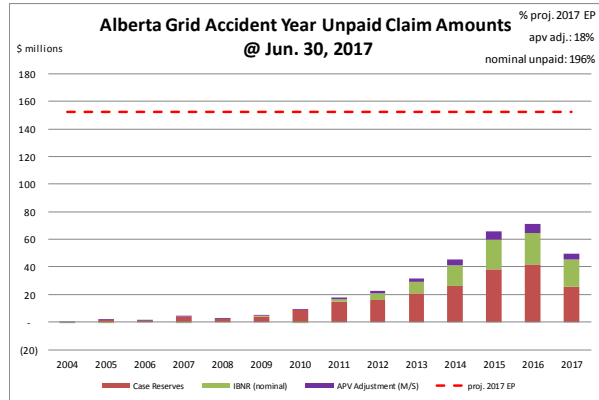
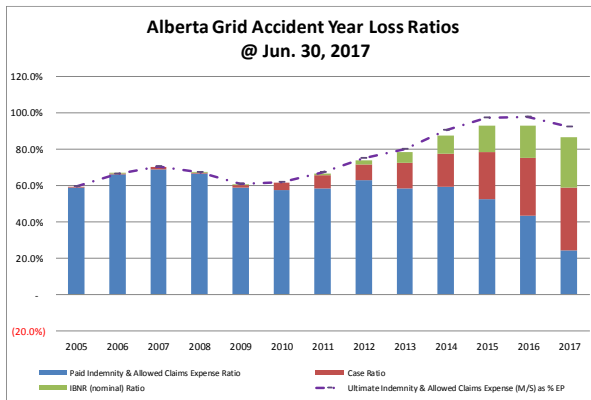
### 1.4 Current Provision Summary

The charts at the top of the next page show the current levels of claim liabilities<sup>1</sup> booked by accident year<sup>2</sup>. 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 2017 full year earned premium (the red hash-mark line) to provide some perspective.

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<sup>1</sup>Claim 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.

<sup>2</sup>Accident 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 (\$27.8 million – see table immediately below) represents 18% of the earned premium projected for the full year 2017 (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) | amt            | %             |
|----------------------------|----------------|---------------|
| case                       | 203,547        | 62.4%         |
| ibnr                       | 94,731         | 29.1%         |
| M/S apv adjust.            | 27,776         | 8.5%          |
| <b>M/S total</b>           | <b>326,054</b> | <b>100.0%</b> |

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 pool is in case reserves. Approximately 46% of the IBNR balance relates to accident years 2016 and 2017 (see Exhibit B). Approximately 81% of the M/S total claim liabilities

are related to accident years 2013-2017 inclusive (i.e. the most recent 5 accident years).

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

| premium liabilities (\$000s) | amt           | %             |
|------------------------------|---------------|---------------|
| unearned prem                | 76,458        | 107.1%        |
| prem def/(dpac)              | (10,181)      | (14.3%)       |
| M/S apv adjust.              | 5,128         | 7.2%          |
| <b>M/S total</b>             | <b>71,405</b> | <b>100.0%</b> |

| policy liabilities (\$000s) | amt            | %             |
|-----------------------------|----------------|---------------|
| claim                       | 298,278        | 75.0%         |
| premium                     | 66,277         | 16.7%         |
| M/S apv adjust.             | 32,904         | 8.3%          |
| <b>M/S total</b>            | <b>397,459</b> | <b>100.0%</b> |

## 2 Activity During the Month of June 2017

### 2.1 Recorded Premium and Claims Activity

The table at the top of the next page summarizes the extent to which premiums and claims amounts recorded during the month differ from projections reflected in the prior month’s Operational Report<sup>3</sup>.

<sup>3</sup>There may be rounding differences in values in this document compared with the associated Bulletin and/or Operational Report.

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

| Table 01<br>Accident Year | Earned Premium |                       | Paid Indemnity & Allowed Claims Expense |                       | Case increase / (decrease) |                       | Recorded increase / (decrease) |                       |
|---------------------------|----------------|-----------------------|---|-----------------------|----------------------------|-----------------------|--------------------------------|-----------------------|
|                           | Actual         | Actual less Projected | Actual                                  | Actual less Projected | Actual                     | Actual less Projected | Actual                         | Actual less Projected |
| Prior                     | (4)            | (4)                   | 4,935                                   | 1,150                 | (4,259)                    | (1,579)               | 676                            | (429)                 |
| 2015                      | (0)            | (0)                   | 767                                     | (1,041)               | (515)                      | 201                   | 252                            | (840)                 |
| 2016                      | (104)          | (104)                 | 1,114                                   | (865)                 | 616                        | 1,091                 | 1,729                          | 225                   |
| 2017                      | 11,918         | (480)                 | 3,401                                   | (1,229)               | 2,637                      | (355)                 | 6,038                          | (1,584)               |
| <b>TOTAL</b>              | <b>11,810</b>  | <b>(588)</b>          | <b>10,216</b>                           | <b>(1,985)</b>        | <b>(1,521)</b>             | <b>(642)</b>          | <b>8,696</b>                   | <b>(2,627)</b>        |

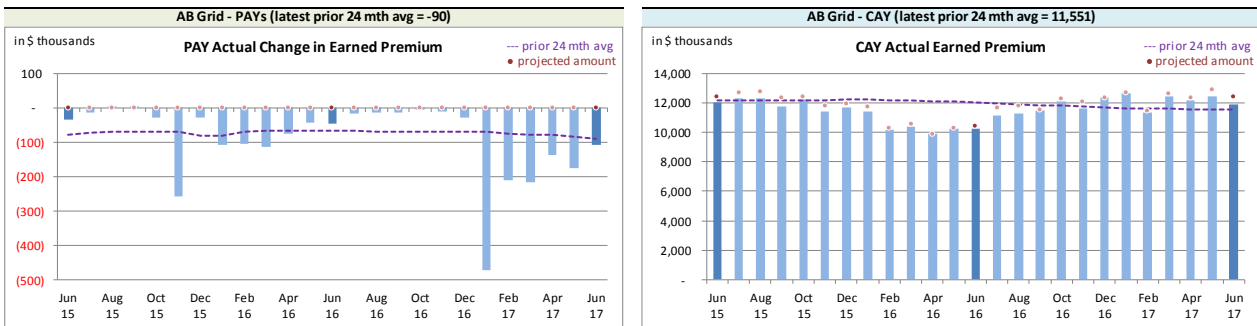
(Recorded transaction amounts exclude IBNR & other actuarial provisions)

Claims transaction activity is generally volatile and changes from one month to the next are anticipated due to this natural “process variance”. 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 immediately below show actual **earned premium**<sup>4</sup> 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*

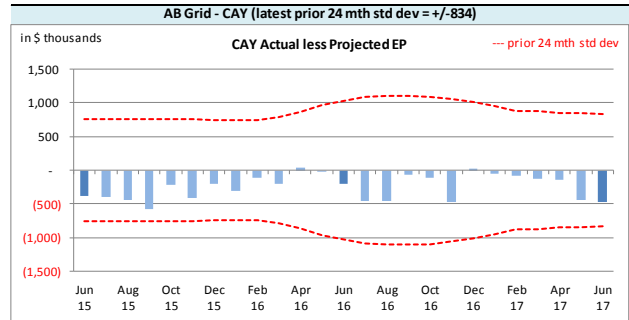
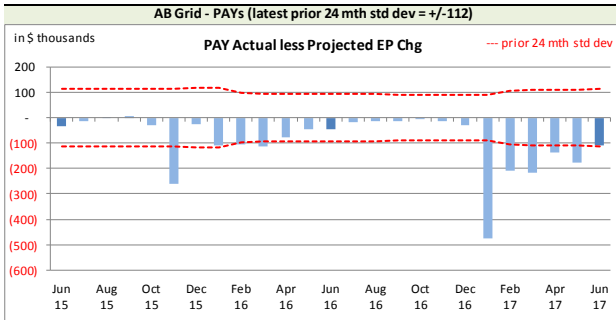


**Earned premium** changes during a given calendar month in relation to prior accident years tend to be at modest levels, although relatively high levels seem to occur at the beginning of each year.

The associated variance between the actual changes and the projections from the previous month are shown in the charts at the top of the next page. **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.

<sup>4</sup>Premium 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.

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



| On Latest \$ thousands           |       |        |
|----------------------------------|-------|--------|
| <b>Earned Premium</b>            | PAYs  | CAY    |
| Mthly Avg EP Chg (prior 24 mths) | (90)  | 11,551 |
| std dev                          | 112   | 834    |
| A-P <> std dev                   | 8     | -      |
| % <> std dev                     | 32.0% | 0.0%   |
| norm <> std dev                  | 31.7% | 31.7%  |

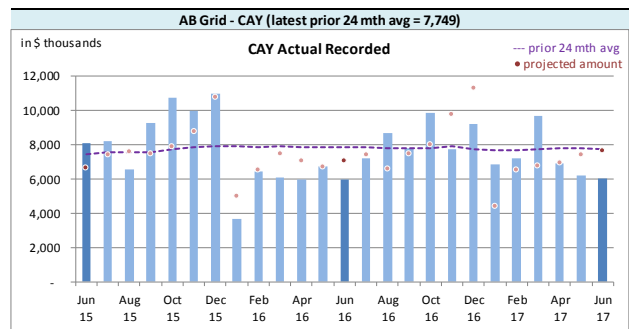
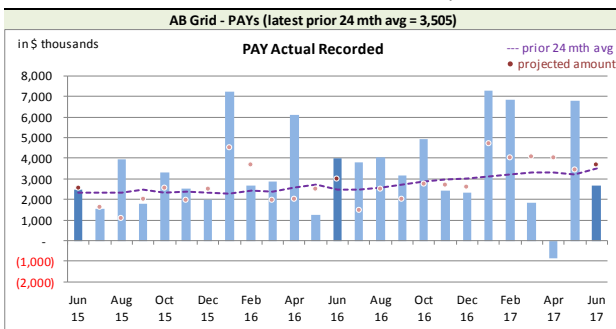
We project **earned premium** changes from known unearned premium and projected written premium levels, but upload the total projections as current accident year (CAY). This process has generated prior accident years' (PAYs) bias<sup>5</sup>, with actuals generally lower than projected. However, the magnitude is not high relative to

monthly premium. In addition to the PAYs' bias, the CAY has also shown bias, with actuals being generally lower than projected. Starting with the August 2016 projections, we have modified our projections processes in an attempt to account for CAY bias. Over time, we may consider other projection approaches to narrow monthly variance levels further, but it is not currently deemed a priority.

**2.1.b AvsP: Recorded Indemnity & Allowed Claims Expense**

The charts immediately 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.

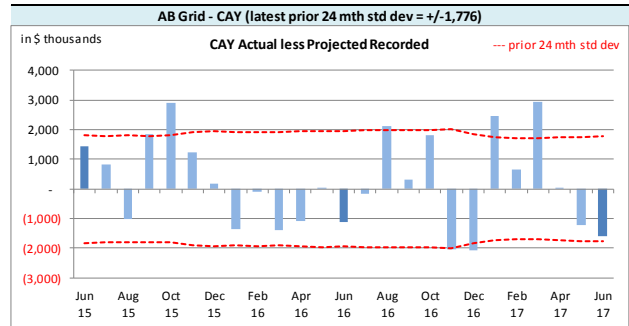
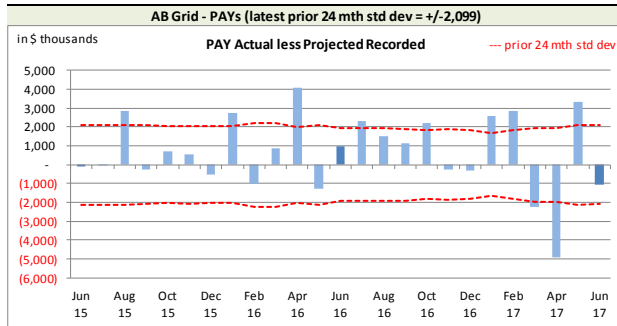
*Alberta Grid RSP Actual Recorded by Calendar Month*



**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.

<sup>5</sup>The PAYs’ variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

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



| On Latest \$ thousands             |       |       |
|------------------------------------|-------|-------|
| <b>Recorded</b>                    | PAYs  | CAY   |
| Mthly Avg Recorded (prior 24 mths) | 3,505 | 7,749 |
| std dev                            | 2,099 | 1,776 |
| A-P <> std dev                     | 10    | 7     |
| % <> std dev                       | 40.0% | 28.0% |
| norm <> std dev                    | 31.7% | 31.7% |

With respect to **recorded** indemnity & allowed claims expense activity, 40% of the prior accident years’ (PAYs) variances (left chart above) over the last 25 months have fallen outside of one standard deviation of the actual **recorded** amounts, suggesting the projection process is performing worse than simply

projecting from the prior 24-month average. From the end of 2015 until the end of 2016 there may have been evidence of bias in the projections with actuals being higher than projections. A similar pattern was not evident in the **paid** activity where actuals have generally been lower than projections over the same timeframe, suggesting there may be changes in case reserve activity. We have not identified the same potential “case reserve” effect for the Alberta non-Grid RSP (there, both **recorded** and **paid** activity appear to be moving in tandem). This has also been noted by the valuation team and investigation continues.

The current accident year (CAY) **recorded** variances (right chart above), have been greater than one standard deviation 28% of the time. Suggesting that the projection process appears to perform little better than simply projecting the most recent prior 24-month average.

We note that there may be a change in the levels of CAY **recorded** and **paid** activity relative to year-to-date **earned premium**, as evidenced by the average of monthly ratios over the past several years shown in the tables at the top of the next page. These tables show, in each row, the average monthly ratio for each calendar year. That is, each row in the left table (as at Dec) provides the average of the 12 monthly-ratios (i.e. Jan, Feb, ... Dec) for that row’s calendar year, whereas each row in the right table (as at June) provides the average of the 6 monthly ratios (i.e. Jan-Jun) for that row’s calendar year.



CAY avg of mthly ratios for yr

| as at    | Rec'd | yr-on-yr chg | Paid | yr-on-yr chg |
|----------|-------|--------------|------|--------------|
| Dec 2009 | 11.5% |              | 4.4% |              |
| Dec 2010 | 10.9% | (0.6%)       | 4.5% | 0.1%         |
| Dec 2011 | 12.8% | 1.9%         | 4.8% | 0.3%         |
| Dec 2012 | 12.4% | (0.4%)       | 4.7% | (0.1%)       |
| Dec 2013 | 12.6% | 0.2%         | 4.8% | 0.1%         |
| Dec 2014 | 13.8% | 1.2%         | 5.3% | 0.5%         |
| Dec 2015 | 14.4% | 0.6%         | 5.5% | 0.2%         |
| Dec 2016 | 14.0% | (0.4%)       | 5.4% | (0.1%)       |

CAY avg of mthly ratios for yr

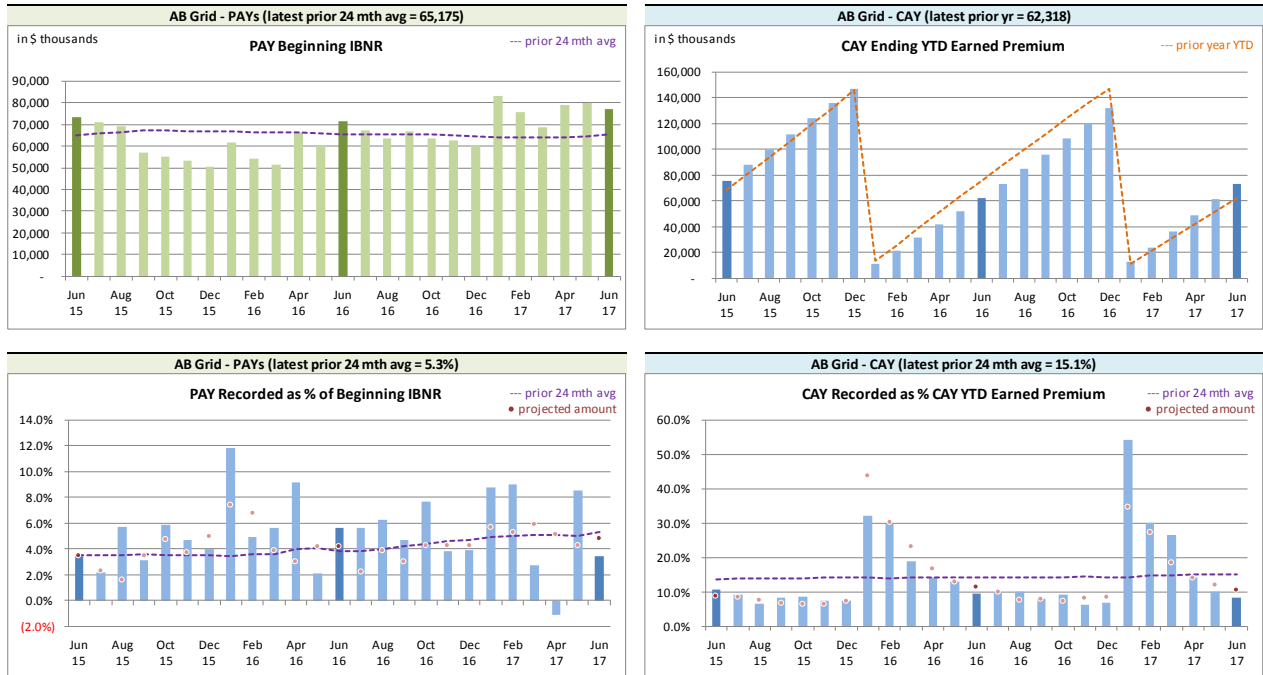
| as at    | Rec'd | yr-on-yr chg | Paid | yr-on-yr chg |
|----------|-------|--------------|------|--------------|
| Jun 2009 | 17.0% |              | 5.2% |              |
| Jun 2010 | 15.5% | (1.5%)       | 5.6% | 0.4%         |
| Jun 2011 | 19.7% | 4.2%         | 6.0% | 0.4%         |
| Jun 2012 | 17.6% | (2.1%)       | 5.7% | (0.3%)       |
| Jun 2013 | 18.4% | 0.8%         | 5.8% | 0.1%         |
| Jun 2014 | 19.4% | 1.0%         | 6.4% | 0.6%         |
| Jun 2015 | 21.0% | 1.6%         | 6.9% | 0.5%         |
| Jun 2016 | 19.6% | (1.4%)       | 6.6% | (0.3%)       |
| Jun 2017 | 23.9% | 4.3%         | 7.1% | 0.5%         |

Both **recorded** and **paid** ratios for Dec. 2016 relative to Dec. 2009 have increased at an annual rate of almost 3% over and above any premium rate level increases. At this point, we are only monitoring, but the valuation team has been advised and are taking this information into consideration. Further, while the average of the 12 monthly ratios at December for 2016 was down from 2015, they were still the second highest ratios overall, and the 6-month average ratios for calendar year 2017 are at the highest levels in the June table for both **recorded** and **paid**.

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. 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).

*Alberta Grid RSP Levels that influence<sup>6</sup> Recorded activity by Calendar Month*



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

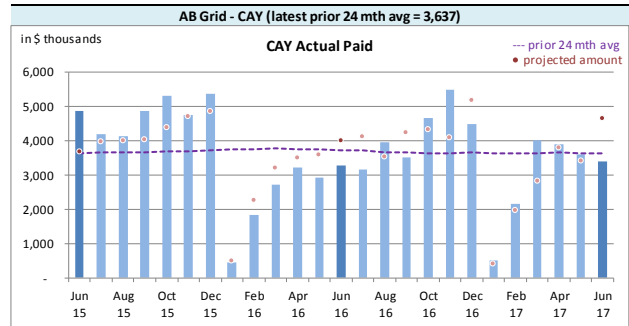
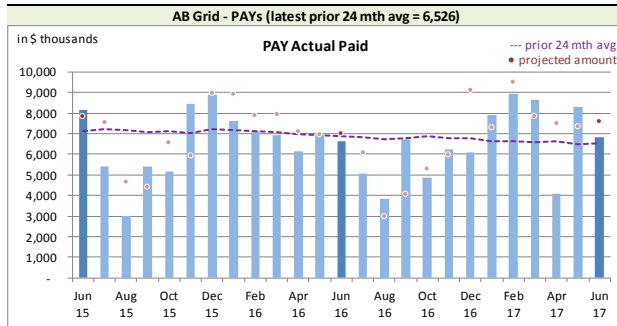
- to offset actual **recorded** activity (through loss ratio matching);
- the annual switchover as a current accident year becomes a prior accident year (occurs in January); and
- when a new valuation is implemented, where the valuation resulted in changes to the selection of prior accident years’ ultimate (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.

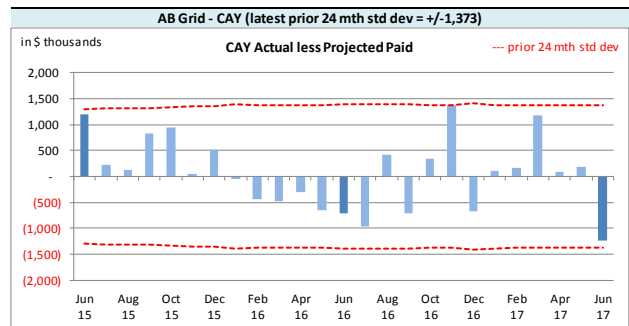
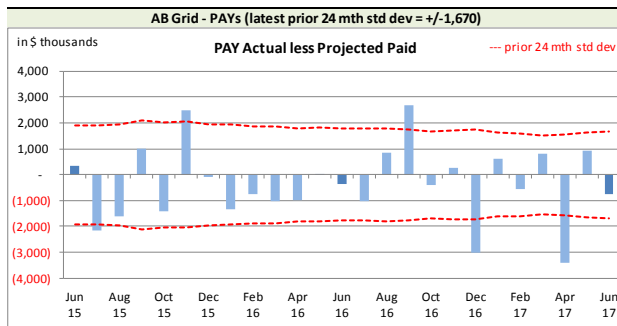
<sup>6</sup>Our recorded activity projections for the prior accident years are based on selected ratios of recorded activity to beginning unpaid balances, whereas the current accident year projections are based on selected ratios of year-to-date IBNR to year-to-date selected ultimate (i.e. selected LR 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 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 Grid RSP Actual vs Projected Summary: Paid Variances by Calendar Month*



| On Latest \$ thousands         |             |       |       |
|--------------------------------|-------------|-------|-------|
|                                | <b>Paid</b> | PAYs  | CAY   |
| Mthly Avg Paid (prior 24 mths) | 6,526       | 6,526 | 3,637 |
| std dev                        | 1,670       | 1,670 | 1,373 |
| A-P <> std dev                 | 5           | -     | -     |
| % <> std dev                   | 20.0%       | 0.0%  | 0.0%  |
| norm <> std dev                | 31.7%       | 31.7% | 31.7% |

With respect to **paid** indemnity & allowed claims expense, the prior accident years’ (PAYs) variances (left chart above) have fallen outside one standard deviation of the overall period 20% of the time, a lower percent than suggested by a normal distribution, indicating the projection process may be better than simply projecting

from the preceding 24-month average.

The current accident year (CAY) **paid** variances (right chart above) have **not** fallen outside one standard deviation of the overall period, suggesting the projection process is better than simply projecting from the preceding 24-month average.

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

*Alberta Grid RSP Levels that influence<sup>7</sup> Paid activity by Calendar Month*



We track beginning prior accident years’ unpaid balance (case and IBNR) as **paid** activity “comes out of” the unpaid balance. Changes in the prior accident years’ 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 current accident year becomes a prior accident year (occurs in January); and
- when a new valuation is implemented, where the valuation resulted in changes to the selection of prior accident years’ ultimate (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 IBNR<sup>8</sup>, 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 the June 2017 Operational Report and the associated

<sup>7</sup>Our 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.

<sup>8</sup>For ease of discussion, “IBNR” is used in place of “provisions for incurred but not recorded (IBNR) and development”.

one-month projections from last month’s Report.

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

| Accident Year | IBNR   |                       | actuarial present value adjustments |                       |                                   |                       | IBNR + actuarial present value adjustments |                       |
|---------------|--------|-----------------------|-------------------------------------|-----------------------|-----------------------------------|-----------------------|--|-----------------------|
|               | Actual | Actual less Projected | Discount Amount                     |                       | Provisions for Adverse Deviations |                       | Actual                                     | Actual less Projected |
|               |        |                       | Actual                              | Actual less Projected | Actual                            | Actual less Projected |  |                       |
| Prior         | 29,653 | 426                   | (2,980)                             | 26                    | 14,331                            | (116)                 | 41,004                                     | 336                   |
| 2015          | 21,596 | 840                   | (1,666)                             | (30)                  | 7,644                             | 134                   | 27,574                                     | 944                   |
| 2016          | 23,239 | (321)                 | (2,007)                             | (24)                  | 8,235                             | 98                    | 29,467                                     | (247)                 |
| 2017          | 20,243 | 1,169                 | (1,369)                             | (24)                  | 5,588                             | 99                    | 24,462                                     | 1,244                 |
| TOTAL         | 94,731 | 2,114                 | (8,022)                             | (52)                  | 35,798                            | 215                   | 122,507                                    | 2,277                 |

The IBNR provision is \$2.1 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 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 deferred policy acquisition cost asset included in the June 2017 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)*

|                                | Premium Deficiency / (Deferred Policy Acquisition Costs) |                       | actuarial present value adjustments |                       | Premium Deficiency / (DPAC) including actuarial present value adjustments |                       |
|--------------------------------|--|-----------------------|-------------------------------------|-----------------------|---|-----------------------|
|                                | Actual   | Actual less Projected | Actual                              | Actual less Projected | Actual  | Actual less Projected |
|                                |  |                       |                                     |                       |   |                       |
| balance:                       | (10,181)   | 143                   | 5,128                               | (74)                  | (5,053)   | 69                    |
| balance as % unearned premium: | (13.3%)  | -                     | 6.7%                                | -                     | (6.6%)  | -                     |
| actual unearned premium:       | 76,458   |                       |                                     |                       |   |                       |
| less projected:                | (1,082)  |                       |                                     |                       |   |                       |

### 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 loss<sup>9</sup> 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<sup>10</sup>, 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 88.1% rather than 86.5% (the valuation ultimate ratio for accident year 2017), 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.)

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

| Table 04     | YTD Nominal Values |               | YTD actuarial present value adjustment |               | YTD Total     |               | Change from Prior Month YTD |               |
|--------------|--------------------|---------------|--|---------------|---------------|---------------|-----------------------------|---------------|
|              | Amount             | % EP          | Amount                                 | % EP          | Amount        | % EP          | Amount                      | LR pts        |
| PAYs         | 15,805             | 22.0%         | (5,546)                                | (7.7%)        | 10,259        | 14.3%         | (721)                       | (4.0%)        |
| CAY          | 63,166             | 88.1%         | 4,219                                  | 5.9%          | 67,385        | 94.0%         | 10,947                      | (0.2%)        |
| <b>TOTAL</b> | <b>78,971</b>      | <b>110.1%</b> | <b>(1,327)</b>                         | <b>(1.9%)</b> | <b>77,644</b> | <b>108.3%</b> | <b>10,226</b>               | <b>(4.3%)</b> |

(“% EP” based on 2017 calendar year-to-date earned premium; ratios may not total due to rounding)

The prior accident years (PAYs) changes from last month are due to the release of the actuarial present value adjustments with claims payments. The loss ratio change year-to-date 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.

### 5 Current Operational Report – Additional Exhibits

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

<sup>9</sup>“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).

<sup>10</sup>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 analysis.

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 presented in section 6, Exhibit B, refer to the estimates derived on the basis of 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

EXHIBIT A

IBNR for Member Sharing – includes Actuarial Present Value Adjustments

TABLE EXHIBIT A

|  |               | Amounts in \$000s |                  |                     |                     |                     |
|--|---------------|-------------------|------------------|---------------------|---------------------|---------------------|
| IBNR + M/S actuarial present value adjustments | Accident Year | Actual May. 2017  | Actual Jun. 2017 | Projected Jul. 2017 | Projected Aug. 2017 | Projected Dec. 2017 |
|  | 2004          | (72)              | (72)             | (72)                | (72)                | (72)                |
|  | 2005          | (418)             | (454)            | (445)               | (431)               | (387)               |
|  | 2006          | 101               | 289              | 282                 | 274                 | 244                 |
|  | 2007          | 79                | 58               | 52                  | 50                  | 44                  |
|  | 2008          | 462               | 350              | 342                 | 332                 | 295                 |
|  | 2009          | 1,120             | 1,123            | 1,095               | 1,063               | 947                 |
|  | 2010          | 585               | 525              | 508                 | 492                 | 434                 |
|  | 2011          | 3,579             | 3,091            | 3,016               | 2,926               | 2,606               |
| discount rate                                  | 2012          | 6,349             | 6,097            | 5,957               | 5,779               | 5,169               |
| 0.98%  | 2013          | 11,249            | 10,965           | 10,745              | 10,446              | 9,364               |
|  | 2014          | 19,078            | 19,032           | 18,610              | 17,844              | 16,253              |
| interest rate margin                           | 2015          | 27,904            | 27,574           | 26,315              | 25,027              | 22,488              |
| 25 basis pts                                   | 2016          | 31,408            | 29,467           | 27,948              | 26,576              | 23,497              |
|  | 2017          | 19,553            | 24,462           | 29,111              | 33,998              | 36,286              |
| <b>TOTAL</b>                                   |               | <b>120,977</b>    | <b>122,507</b>   | <b>123,464</b>      | <b>124,304</b>      | <b>117,168</b>      |
| Change   |               |                   | 1,530            | 957                 | 840                 |                     |

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



EXHIBIT B

IBNR

TABLE EXHIBIT B

Amounts in \$000s

| IBNR | Ultimate<br>Loss Ratio | Accident<br>Year | Actual<br>May. 2017 | Actual<br>Jun. 2017 | Projected<br>Jul. 2017 | Projected<br>Aug. 2017 | Projected<br>Dec. 2017 |
|------|------------------------|------------------|---------------------|---------------------|------------------------|------------------------|------------------------|
|      | 51.6%                  | 2004             | (80)                | (80)                | (80)                   | (80)                   | (80)                   |
|      | 59.2%                  | 2005             | (512)               | (535)               | (524)                  | (508)                  | (455)                  |
|      | 66.4%                  | 2006             | 3                   | 206                 | 202                    | 196                    | 175                    |
|      | 70.1%                  | 2007             | (248)               | (269)               | (264)                  | (256)                  | (229)                  |
|      | 67.0%                  | 2008             | 276                 | 167                 | 164                    | 159                    | 142                    |
|      | 60.6%                  | 2009             | 711                 | 735                 | 720                    | 698                    | 624                    |
|      | 61.3%                  | 2010             | (95)                | (150)               | (147)                  | (143)                  | (128)                  |
|      | 66.5%                  | 2011             | 2,224               | 1,774               | 1,739                  | 1,687                  | 1,508                  |
|      | 73.9%                  | 2012             | 4,583               | 4,430               | 4,341                  | 4,211                  | 3,767                  |
|      | 78.1%                  | 2013             | 8,796               | 8,608               | 8,436                  | 8,183                  | 7,319                  |
|      | 87.5%                  | 2014             | 14,674              | 14,767              | 14,472                 | 13,748                 | 12,552                 |
|      | 93.0%                  | 2015             | 21,848              | 21,596              | 20,516                 | 19,285                 | 17,247                 |
|      | 92.6%                  | 2016             | 25,064              | 23,239              | 21,845                 | 20,534                 | 17,982                 |
|      | 86.5%                  | 2017             | 15,972              | 20,243              | 24,220                 | 28,404                 | 28,833                 |
|      |                        | <b>TOTAL</b>     | <b>93,216</b>       | <b>94,731</b>       | <b>95,640</b>          | <b>96,118</b>          | <b>89,257</b>          |
|      |                        | Change           |                     | 1,515               | 909                    | 478                    |                        |

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

## EXHIBIT C

## Premium Liabilities

TABLE EXHIBIT C

|  | Amounts in \$000s   |                     |                        |                        |                        |
|--|---------------------|---------------------|------------------------|------------------------|------------------------|
|  | Actual<br>May. 2017 | Actual<br>Jun. 2017 | Projected<br>Jul. 2017 | Projected<br>Aug. 2017 | Projected<br>Dec. 2017 |
| Premium Liabilities  |                     |                     |                        |                        |                        |
| (1) unearned premium (UP)                                      | 73,993              | 76,458              | 79,085                 | 81,130                 | 79,070                 |
| FOR MEMBER SHARING   |                     |                     |                        |                        |                        |
| (2) expected future costs ratio {% of (1)}                     | 93.4%               | 93.4%               | 93.4%                  | 93.3%                  | 93.1%                  |
| (3) expected future costs {(1) x (2)}                          | 69,132              | 71,405              | 73,826                 | 75,699                 | 73,597                 |
| (4) premium deficiency / (deferred policy<br>acquisition cost) | (4,861)             | (5,053)             | (5,259)                | (5,431)                | (5,473)                |
| Excluding Actuarial Present Value Adjustments                  |                     |                     |                        |                        |                        |
| (5) expected future costs ratio {% of (1)}                     | 86.7%               | 86.7%               | 86.6%                  | 86.6%                  | 86.4%                  |
| (6) expected future costs {(1) x (5)}                          | 64,165              | 66,277              | 68,523                 | 70,262                 | 68,310                 |
| (7) premium deficiency / (deferred policy<br>acquisition cost) | (9,828)             | (10,181)            | (10,562)               | (10,868)               | (10,760)               |

EXHIBIT D

Projected Year-end Policy Liabilities

The table below presents the projected policy liabilities as at December 31, 2017, broken down by component.

| Alberta Grid   |                  | Projected Balances as at Dec. 31, 2017 (\$000s) |                 |                |  |                  |               |                |
|--|------------------|---|-----------------|----------------|--|------------------|---------------|----------------|
| ending 2017  |                  | nominal values                                  |                 |                | actuarial present value adjustments (apvs) |                  |               |                |
| Acc Yr   | Case             | IBNR  | Total Unpaid    | discount       | investment PfAD                            | development PfAD | Total apvs    | TOTAL          |
| 2004   | -                | (80)  | (80)            | -              | -  | 8                | 8             | (72)           |
| 2005   | 1,233            | (455)   | 778             | (12)           | 3  | 77               | 68            | 846            |
| 2006   | 631              | 175   | 806             | (14)           | 3  | 80               | 69            | 875            |
| 2007   | 3,377            | (229)   | 3,148           | (50)           | 13   | 310              | 273           | 3,421          |
| 2008   | 1,650            | 142   | 1,792           | (30)           | 7  | 176              | 153           | 1,945          |
| 2009   | 3,313            | 624   | 3,937           | (83)           | 20   | 386              | 323           | 4,260          |
| 2010   | 7,202            | (128)   | 7,074           | (177)          | 50   | 689              | 562           | 7,636          |
| 2011   | 12,278           | 1,508   | 13,786          | (331)          | 83   | 1,346            | 1,098         | 14,884         |
| 2012   | 13,612           | 3,767   | 17,379          | (400)          | 104  | 1,698            | 1,402         | 18,781         |
| 2013   | 17,993           | 7,319   | 25,312          | (557)          | 127  | 2,475            | 2,045         | 27,357         |
| 2014   | 23,084           | 12,552  | 35,636          | (891)          | 249  | 4,343            | 3,701         | 39,337         |
| 2015   | 34,905           | 17,247  | 52,152          | (1,460)        | 365  | 6,336            | 5,241         | 57,393         |
| 2016   | 39,354           | 17,982  | 57,336          | (1,777)        | 459  | 6,833            | 5,515         | 62,851         |
| PAYs (sub-total):  | 158,632          | 60,424  | 219,056         | (5,782)        | 1,483                                      | 24,757           | 20,458        | 239,514        |
| CAY (2017)   | 51,769           | 28,833  | 80,602          | (2,418)        | 645  | 9,226            | 7,453         | 88,055         |
| <b>claims liabilities:</b>   | <b>210,401</b>   | <b>89,257</b>                                   | <b>299,658</b>  | <b>(8,200)</b> | <b>2,128</b>                               | <b>33,983</b>    | <b>27,911</b> | <b>327,569</b> |
|  | Unearned Premium | Premium Deficiency / (DPAC)                     | Total Provision | discount       | investment PfAD                            | development PfAD | Total apvs    | TOTAL*         |
| <b>premium liabilities:</b>  | 79,070           | (10,760)  | 68,310          | (1,634)        | 409  | 6,512            | 5,287         | 73,597         |
| *Total may not be sum of parts, as apvs apply to future costs within UPR |                  |   |                 |                |  |                  |               |                |
| <b>policy liabilities:</b>   |                  |   | <b>367,968</b>  | <b>(9,834)</b> | <b>2,537</b>                               | <b>40,495</b>    | <b>33,198</b> | <b>401,166</b> |

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, 2017 from the valuation), followed by the selected discount rate and the associated margin for investment income.

| Accident<br>Year | Selected Claims Development MfADs (Mar. 30, 2017) |                      |                    | Total |
|------------------|---|----------------------|--------------------|-------|
|                  | Third Party<br>Liability                          | Accident<br>Benefits | Other<br>Coverages |       |
| 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%                | 9.6%               | 10.0% |
| 2011             | 10.0%   | 10.0%                | 9.9%               | 10.0% |
| 2012             | 10.0%   | 10.0%                | 9.7%               | 10.0% |
| 2013             | 10.0%   | 10.0%                | 10.0%              | 10.0% |
| 2014             | 12.5%   | 10.0%                | 12.5%              | 12.5% |
| 2015             | 12.5%   | 10.0%                | 12.5%              | 12.5% |
| 2016             | 12.4%   | 10.0%                | 9.7%               | 12.3% |
| 2017             | 12.1%   | 10.0%                | 7.2%               | 11.8% |
| 2018             | 12.5%   | 10.0%                | 12.5%              | 12.5% |
| prem liab        | 11.8%   | 10.0%                | 5.2%               | 9.8%  |

discount rate: 0.98%  
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, 2017 from the latest valuation date (projections in exhibits A to D are also to Dec. 31, 2017, but are based on more up-to-date information). We have included the current valuation selection (0.98%), the prior valuation assumption (1.06%) and the prior fiscal year end valuation assumption (0.54%) for comparative purposes. A 25 basis point margin for investment return adverse deviation is used in all scenarios presented.

\$ Format: \$000s

| Actuarial Present Value of Provisions at Various Discount Rates - Dec. 31, 2017 projected Unpaid |                |                     |                |                |                |                |                      |                          |
|--|----------------|---------------------|----------------|----------------|----------------|----------------|----------------------|--------------------------|
| AY   | 0.48%          | 0.98%               | 1.48%          | 1.98%          | 2.48%          | 2.98%          | 1.06%                | 0.54%                    |
| 2004   | -              | -                   | -              | -              | -              | -              | -                    | -                        |
| 2005   | 1,242          | 1,231               | 1,221          | 1,212          | 1,202          | 1,192          | 1,230                | 1,240                    |
| 2006   | 864            | 856                 | 848            | 841            | 834            | 827            | 855                  | 863                      |
| 2007   | 2,933          | 2,909               | 2,885          | 2,862          | 2,839          | 2,816          | 2,905                | 2,930                    |
| 2008   | 1,776          | 1,760               | 1,744          | 1,729          | 1,714          | 1,699          | 1,757                | 1,774                    |
| 2009   | 4,872          | 4,819               | 4,769          | 4,719          | 4,670          | 4,622          | 4,811                | 4,865                    |
| 2010   | 7,788          | 7,688               | 7,593          | 7,499          | 7,408          | 7,318          | 7,673                | 7,775                    |
| 2011   | 12,962         | 12,802              | 12,646         | 12,494         | 12,346         | 12,202         | 12,776               | 12,943                   |
| 2012   | 18,563         | 18,347              | 18,138         | 17,935         | 17,737         | 17,544         | 18,314               | 18,536                   |
| 2013   | 25,675         | 25,381              | 25,096         | 24,816         | 24,547         | 24,283         | 25,334               | 25,640                   |
| 2014   | 40,665         | 40,146              | 39,647         | 39,163         | 38,688         | 38,227         | 40,065               | 40,600                   |
| 2016   | 62,588         | 61,589              | 60,628         | 59,697         | 58,787         | 57,911         | 61,436               | 62,466                   |
| 2017   | 102,151        | 100,575             | 99,050         | 97,574         | 96,156         | 94,762         | 100,331              | 101,958                  |
| <b>Total</b>   | <b>340,301</b> | <b>335,478</b>      | <b>330,818</b> | <b>326,290</b> | <b>321,902</b> | <b>317,626</b> | <b>334,723</b>       | <b>339,707</b>           |
|  | curr - 50 bp   | curr val assumption | curr + 50bp    | curr + 100bp   | curr + 150bp   | curr + 200bp   | prior val assumption | prior fyr end assumption |

| Dollar Impact Relative to Valuation Assumption |              |                     |                |                |                 |                 |                      |                          |
|--|--------------|---------------------|----------------|----------------|-----------------|-----------------|----------------------|--------------------------|
| AY   | 0.48%        | 0.98%               | 1.48%          | 1.98%          | 2.48%           | 2.98%           | 1.06%                | 0.54%                    |
| <b>Total</b>                                   | <b>4,823</b> | <b>-</b>            | <b>(4,660)</b> | <b>(9,188)</b> | <b>(13,576)</b> | <b>(17,852)</b> | <b>(755)</b>         | <b>4,229</b>             |
|  | curr - 50 bp | curr val assumption | curr + 50bp    | curr + 100bp   | curr + 150bp    | curr + 200bp    | prior val assumption | prior fyr end assumption |

| Percentage Impact Relative to Valuation Assumption |              |                     |               |               |               |               |                      |                          |
|--|--------------|---------------------|---------------|---------------|---------------|---------------|----------------------|--------------------------|
| AY   | 0.48%        | 0.98%               | 1.48%         | 1.98%         | 2.48%         | 2.98%         | 1.06%                | 0.54%                    |
| 2004   | -            | -                   | -             | -             | -             | -             | -                    | -                        |
| 2005   | 0.9%         | -                   | (0.8%)        | (1.5%)        | (2.4%)        | (3.2%)        | (0.1%)               | 0.7%                     |
| 2006   | 0.9%         | -                   | (0.9%)        | (1.8%)        | (2.6%)        | (3.4%)        | (0.1%)               | 0.8%                     |
| 2007   | 0.8%         | -                   | (0.8%)        | (1.6%)        | (2.4%)        | (3.2%)        | (0.1%)               | 0.7%                     |
| 2008   | 0.9%         | -                   | (0.9%)        | (1.8%)        | (2.6%)        | (3.5%)        | (0.2%)               | 0.8%                     |
| 2009   | 1.1%         | -                   | (1.0%)        | (2.1%)        | (3.1%)        | (4.1%)        | (0.2%)               | 1.0%                     |
| 2010   | 1.3%         | -                   | (1.2%)        | (2.5%)        | (3.6%)        | (4.8%)        | (0.2%)               | 1.1%                     |
| 2011   | 1.2%         | -                   | (1.2%)        | (2.4%)        | (3.6%)        | (4.7%)        | (0.2%)               | 1.1%                     |
| 2012   | 1.2%         | -                   | (1.1%)        | (2.2%)        | (3.3%)        | (4.4%)        | (0.2%)               | 1.0%                     |
| 2013   | 1.2%         | -                   | (1.1%)        | (2.2%)        | (3.3%)        | (4.3%)        | (0.2%)               | 1.0%                     |
| 2014   | 1.3%         | -                   | (1.2%)        | (2.4%)        | (3.6%)        | (4.8%)        | (0.2%)               | 1.1%                     |
| 2016   | 1.6%         | -                   | (1.6%)        | (3.1%)        | (4.5%)        | (6.0%)        | (0.2%)               | 1.4%                     |
| 2017   | 1.6%         | -                   | (1.5%)        | (3.0%)        | (4.4%)        | (5.8%)        | (0.2%)               | 1.4%                     |
| <b>Total</b>                                       | <b>1.4%</b>  | <b>-</b>            | <b>(1.4%)</b> | <b>(2.7%)</b> | <b>(4.0%)</b> | <b>(5.3%)</b> | <b>(0.2%)</b>        | <b>1.3%</b>              |
|  | curr - 50 bp | curr val assumption | curr + 50bp   | curr + 100bp  | curr + 150bp  | curr + 200bp  | prior val assumption | prior fyr end assumption |

EXHIBIT G

Page 1 of 2

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

| RSP                |                                  | Alberta Grid            |                                     |   |                     |                       |                                   | M/S IBNR - in \$000s |
|--------------------|----------------------------------|-------------------------|-------------------------------------|---|---------------------|-----------------------|-----------------------------------|----------------------|
| AccountCode Desc   |                                  | IBNR - Discou           |                                     |   |                     |                       |                                   |                      |
| AccYear            | Values                           |                         |                                     |   |                     |                       |                                   |                      |
|                    | 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               | (72)                             | -                       | -                                   | -   | -                   | -                     | (72)                              |                      |
| 2005               | (418)                            | 13                      | (49)                                | -   | (36)                | 8.6%                  | (454)                             |                      |
| 2006               | 101                              | (3)                     | 191                                 | -   | 188                 | 186.1%                | 289                               |                      |
| 2007               | 79                               | (3)                     | (18)                                | -   | (21)                | (26.6%)               | 58                                |                      |
| 2008               | 462                              | (15)                    | (97)                                | -   | (112)               | (24.2%)               | 350                               |                      |
| 2009               | 1,120                            | (33)                    | 36                                  | -   | 3                   | 0.3%                  | 1,123                             |                      |
| 2010               | 585                              | (19)                    | (41)                                | -   | (60)                | (10.3%)               | 525                               |                      |
| 2011               | 3,579                            | (108)                   | (380)                               | -   | (488)               | (13.6%)               | 3,091                             |                      |
| 2012               | 6,349                            | (218)                   | (34)                                | -   | (252)               | (4.0%)                | 6,097                             |                      |
| 2013               | 11,249                           | (338)                   | 54                                  | -   | (284)               | (2.5%)                | 10,965                            |                      |
| 2014               | 19,078                           | (720)                   | 674                                 | -   | (46)                | (0.2%)                | 19,032                            |                      |
| 2015               | 27,904                           | (1,274)                 | 944                                 | -   | (330)               | (1.2%)                | 27,574                            |                      |
| 2016               | 31,408                           | (1,694)                 | (247)                               | -   | (1,941)             | (6.2%)                | 29,467                            |                      |
| 2017               | 19,553                           | 3,665                   | 1,244                               | -   | 4,909               | 25.1%                 | 24,462                            |                      |
| <b>Grand Total</b> | <b>120,977</b>                   | <b>(747)</b>            | <b>2,277</b>                        | <b>-</b>                                      | <b>1,530</b>        | <b>1.3%</b>           | <b>122,507</b>                    |                      |

EXHIBIT G

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

RSP **Alberta Grid**

AccountCode Desc **IBNR - Undiscounted**

IBNR - in \$000s

| AccYear            | Values                           |                         |                                     |   | Sum of Total Change | Sum of % Total Change | Sum of Current Month Final Amount |
|--------------------|----------------------------------|-------------------------|-------------------------------------|---|---------------------|-----------------------|-----------------------------------|
|                    | Sum of Prior Month Actual Amount | Sum of Projected Change | Sum of Change Due to AvsP Variances | Sum of Change Due to Valuation Implementation |                     |                       |                                   |
| 2004               | (80)                             | -                       | -                                   | -   | -                   | -                     | (80)                              |
| 2005               | (512)                            | 15                      | (38)                                | -   | (23)                | 4.5%                  | (535)                             |
| 2006               | 3                                | -                       | 203                                 | -   | 203                 | 6,766.7%              | 206                               |
| 2007               | (248)                            | 7                       | (28)                                | -   | (21)                | 8.5%                  | (269)                             |
| 2008               | 276                              | (8)                     | (101)                               | -   | (109)               | (39.5%)               | 167                               |
| 2009               | 711                              | (21)                    | 45                                  | -   | 24                  | 3.4%                  | 735                               |
| 2010               | (95)                             | 3                       | (58)                                | -   | (55)                | 57.9%                 | (150)                             |
| 2011               | 2,224                            | (67)                    | (383)                               | -   | (450)               | (20.2%)               | 1,774                             |
| 2012               | 4,583                            | (183)                   | 30                                  | -   | (153)               | (3.3%)                | 4,430                             |
| 2013               | 8,796                            | (264)                   | 76                                  | -   | (188)               | (2.1%)                | 8,608                             |
| 2014               | 14,674                           | (587)                   | 680                                 | -   | 93                  | 0.6%                  | 14,767                            |
| 2015               | 21,848                           | (1,092)                 | 840                                 | -   | (252)               | (1.2%)                | 21,596                            |
| 2016               | 25,064                           | (1,504)                 | (321)                               | -   | (1,825)             | (7.3%)                | 23,239                            |
| 2017               | 15,972                           | 3,102                   | 1,169                               | -   | 4,271               | 26.7%                 | 20,243                            |
| <b>Grand Total</b> | <b>93,216</b>                    | <b>(599)</b>            | <b>2,114</b>                        | <b>-</b>                                      | <b>1,515</b>        | <b>1.6%</b>           | <b>94,731</b>                     |