

ROYAL BANK OF CANADA  
 Form FWP  
 October 10, 2017

RBC Capital Markets® Filed Pursuant to Rule 433  
 Registration Statement No. 333-208507

The information in this preliminary terms supplement is not complete and may be changed.

Preliminary Terms

Supplement

Subject to Completion:

Dated October 6, 2017

Pricing Supplement

Dated October \_\_, 2017 \$ \_\_\_\_\_

to the Product Geared Buffered Return Notes

Prospectus Supplement Linked to the S&P 500® Index,

ERN-EI-1 Dated January Due November 1, 2023

12, 2016, Prospectus Royal Bank of Canada

Supplement Dated

January 8, 2016, and

Prospectus Dated

January 8, 2016

Royal Bank of Canada is offering the Geared Buffered Return Notes (the “Notes”) linked to the performance of the S&P 500® Index (the “Reference Asset”). The CUSIP number for the Notes is 78013GKB0. The Notes do not pay interest. If the Final Level of the Reference Asset is greater than the Initial Level, investors will receive a [100.00% to 107.00%] leveraged positive return (to be determined on the Pricing Date). If the Final Level of the Reference Asset is greater than 72.00% of the Initial Level (the “Buffer Level”), but less than the Initial Level, investors will receive the Principal Amount.

However, if the Final Level is less than the Initial Level by more than the Buffer Percentage, investors will lose 1.3889% of the principal amount of the Notes for each 1% decrease from the Initial Level to the Final Level by more than the Buffer Percentage. Accordingly, investors may lose all or substantially all of their principal amount. Any payments on the Notes are subject to our credit risk.

Issue Date: October 31, 2017

Maturity Date: November 1, 2023

The Notes will not be listed on any securities exchange.

Investing in the Notes involves a number of risks. See “Risk Factors” beginning on page S-1 of the prospectus supplement dated January 8, 2016, “Additional Risk Factors Specific to the Notes” beginning on page PS-4 of the product prospectus supplement dated January 12, 2016, and “Selected Risk Considerations” on page P-6 of this terms supplement.

The Notes will not constitute deposits insured by the Canada Deposit Insurance Corporation, the U.S. Federal Deposit Insurance Corporation or any other Canadian or U.S. government agency or instrumentality.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined that this terms supplement is truthful or complete. Any representation to the contrary is a criminal offense.

	<u>Per Note</u>	<u>Total</u>
Price to public <sup>(1)</sup>	100.00%	\$
Underwriting discounts and commissions <sup>(1)</sup>	3.25%	\$
Proceeds to Royal Bank of Canada	96.75%	\$

<sup>(1)</sup> Certain dealers who purchase the Notes for sale to certain fee-based advisory accounts may forego some or all of their underwriting discount or selling concessions. The public offering price for investors purchasing the Notes in these accounts may be between \$967.50 and \$1,000 per \$1,000 in principal amount.

The initial estimated value of the Notes as of the date of this terms supplement is \$940.64 per \$1,000 in principal amount, which is less than the price to public. The final pricing supplement relating to the Notes will set forth our estimate of the initial value of the Notes as of the Pricing Date, which will not be less than \$920.64 per \$1,000 in principal amount. The actual value of the Notes at any time will reflect many factors, cannot be predicted with accuracy, and may be less than this amount. We describe our determination of the initial estimated value in more detail below.

If the Notes priced on the date of this terms supplement, RBC Capital Markets, LLC, which we refer to as RBCCM, acting as agent for Royal Bank of Canada, would receive a commission of approximately \$32.50 per \$1,000 in principal amount of the Notes and would use a portion of that commission to allow selling concessions to other dealers of up to approximately \$32.50 per \$1,000 in principal amount of the Notes. The other dealers may forgo, in their sole discretion, some or all of their selling concessions. See “Supplemental Plan of Distribution (Conflicts of Interest)” below.

We may use this terms supplement in the initial sale of the Notes. In addition, RBCCM or another of our affiliates may use this terms supplement in a market-making transaction in the Notes after their initial sale. Unless we or our agent informs the purchaser otherwise in the confirmation of sale, this terms supplement is being used in a market-making transaction.

RBC Capital Markets, LLC

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Geared Buffered Return Notes  
Linked to the S&P 500<sup>®</sup> Index,  
Due November 1, 2023

#### SUMMARY

The information in this “Summary” section is qualified by the more detailed information set forth in this terms supplement, the product prospectus supplement, the prospectus supplement, and the prospectus.

Issuer: Royal Bank of Canada (“Royal Bank”)  
Issue: Senior Global Medium-Term Notes, Series G  
Underwriter: RBC Capital Markets, LLC (“RBCCM”)  
Reference Asset: S&P 500<sup>®</sup> Index  
Bloomberg Ticker: SPX  
Currency: U.S. Dollars  
Minimum Investment: \$1,000 and minimum denominations of \$1,000 in excess thereof  
Pricing Date: October 27, 2017  
Issue Date: October 31, 2017  
CUSIP: 78013GKB0  
Valuation Date: October 27, 2023

Payment at Maturity (if held to maturity): If, on the Valuation Date, the Final Level is greater than or equal to the Initial Level, you will receive, for each \$1,000 in principal amount of the Notes:  
 $\$1,000 + [\$1,000 \times (\text{Percentage Change} \times \text{Leverage Factor})]$   
If, on the Valuation Date, the Final Level is greater than or equal to the Buffer Level but less than the Initial Level, you will receive \$1,000 per \$1,000 principal amount of the Notes.  
If the Final Level is less than the Buffer Level, then the investor will receive, for each \$1,000 in principal amount of the Notes:  
 $\text{Principal Amount} + [\text{Principal Amount} \times (\text{Percentage Change} + \text{Buffer Percentage}) \times \text{Downside Multiplier}]$   
This amount will be less than the principal amount, and you may lose all or substantially all of your investment in the Notes.

Percentage Change: The Percentage Change, expressed as a percentage, is calculated using the following formula:  
Initial Level: The closing level of the Reference Asset on the Pricing Date.  
Final Level: The closing level of the Reference Asset on the Valuation Date.  
Leverage Factor: [100.00% to 107.00%] (to be determined on the Pricing Date)  
Buffer Percentage: 28.00%

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Geared Buffered Return Notes  
Linked to the S&P 500® Index,  
Due November 1, 2023

Buffer Level: 72.00% of the Initial Level.

Downside Multiplier: 100% divided by 72%. Accordingly, the Downside Multiplier will be 1.3889.

Maturity Date: November 1, 2023, subject to extension for market and other disruptions, as described in the product prospectus supplement dated January 12, 2016.

Term: Approximately six (6) years.

Principal at Risk: The Notes are NOT principal protected. You may lose all or a substantial portion of your principal amount at maturity if the Final Level is less than the Buffer Level.

Calculation Agent: RBCCM

U.S. Tax Treatment: By purchasing a Note, each holder agrees (in the absence of a change in law, an administrative determination or a judicial ruling to the contrary) to treat the Note as a pre-paid cash-settled derivative contract for U.S. federal income tax purposes. However, the U.S. federal income tax consequences of your investment in the Notes are uncertain and the Internal Revenue Service could assert that the Notes should be taxed in a manner that is different from that described in the preceding sentence. Please see the section below, "Supplemental Discussion of U.S. Federal Income Tax Consequences," and the discussion (including the opinion of our counsel Morrison & Foerster LLP) in the product prospectus supplement dated January 12, 2016 under "Supplemental Discussion of U.S. Federal Income Tax Consequences," which apply to the Notes.

Secondary Market: RBCCM (or one of its affiliates), though not obligated to do so, plans to maintain a secondary market in the Notes after the Issue Date. The amount that you may receive upon sale of your Notes prior to maturity may be less than the principal amount of your Notes.

Listing: The Notes will not be listed on any securities exchange.

Clearance and Settlement: DTC global (including through its indirect participants Euroclear and Clearstream, Luxembourg as described under "Description of Debt Securities—Ownership and Book-Entry Issuance" in the prospectus dated January 8, 2016).

Terms Incorporated in the Master Note: All of the terms appearing above the item captioned "Secondary Market" on pages P-2 and P-3 of this terms supplement and the terms appearing under the caption "General Terms of the Notes" in the product prospectus supplement dated January 12, 2016, as modified by this terms supplement.

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Gearred Buffered Return Notes  
Linked to the S&P 500<sup>®</sup> Index,  
Due November 1, 2023

#### ADDITIONAL TERMS OF YOUR NOTES

You should read this terms supplement together with the prospectus dated January 8, 2016, as supplemented by the prospectus supplement dated January 8, 2016 and the product prospectus supplement dated January 12, 2016, relating to our Senior Global Medium-Term Notes, Series G, of which these Notes are a part. Capitalized terms used but not defined in this terms supplement will have the meanings given to them in the product prospectus supplement. In the event of any conflict, this terms supplement will control. The Notes vary from the terms described in the product prospectus supplement in several important ways. You should read this terms supplement carefully.

This terms supplement, together with the documents listed below, contains the terms of the Notes and supersedes all prior or contemporaneous oral statements as well as any other written materials including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, brochures or other educational materials of ours. You should carefully consider, among other things, the matters set forth in “Risk Factors” in the prospectus supplement dated January 8, 2016 and “Additional Risk Factors Specific to the Notes” in the product prospectus supplement dated January 12, 2016, as the Notes involve risks not associated with conventional debt securities. We urge you to consult your investment, legal, tax, accounting and other advisors before you invest in the Notes. You may access these documents on the Securities and Exchange Commission (the “SEC”) website at [www.sec.gov](http://www.sec.gov) as follows (or if that address has changed, by reviewing our filings for the relevant date on the SEC website):

Prospectus dated January 8, 2016:

<http://www.sec.gov/Archives/edgar/data/1000275/000121465916008810/j18160424b3.htm>

Prospectus Supplement dated January 8, 2016:

<http://www.sec.gov/Archives/edgar/data/1000275/000121465916008811/p14150424b3.htm>

Product Prospectus Supplement ERN-EI-1 dated January 12, 2016:

<https://www.sec.gov/Archives/edgar/data/1000275/000114036116047560/form424b5.htm>

Our Central Index Key, or CIK, on the SEC website is 1000275. As used in this terms supplement, “we,” “us,” or “our” refers to Royal Bank of Canada.

Royal Bank of Canada has filed a registration statement (including a product prospectus supplement, a prospectus supplement, and a prospectus) with the SEC for the offering to which this terms supplement relates. Before you invest, you should read those documents and the other documents relating to this offering that we have filed with the SEC for more complete information about us and this offering. You may obtain these documents without cost by visiting EDGAR on the SEC website at [www.sec.gov](http://www.sec.gov). Alternatively, Royal Bank of Canada, any agent or any dealer participating in this offering will arrange to send you the product prospectus supplement, the prospectus supplement and the prospectus if you so request by calling toll-free at 1-866-609-6009.

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Geared Buffered Return Notes  
Linked to the S&P 500<sup>®</sup> Index,  
Due November 1, 2023

#### HYPOTHETICAL RETURNS

The examples set out below are included for illustration purposes only. The hypothetical Percentage Changes of the Reference Asset used to illustrate the calculation of the Payment at Maturity (rounded to two decimal places) are not estimates or forecasts of the Initial Level, the Final Level or the level of the Reference Asset on any trading day prior to the Maturity Date. All examples are based on a Leverage Factor of 103.50% (the midpoint of the Leverage Factor range of 100.00% to 107.00%), the Buffer Percentage of 28.00% (the Buffer Level is 72.00% of the Initial Level), and the Downside Multiplier of 1.3889% (100% divided by 72.00%), and assume that a holder purchased Notes with an aggregate principal amount of \$1,000, and that no market disruption event occurs on the Valuation Date.

Example 1—Calculation of the Payment at Maturity where the Percentage Change is positive.

Percentage Change: 5.00%

Payment at Maturity:  $\$1,000 + [\$1,000 \times (5.00\% \times 103.50\%)] = \$1,000 + \$51.75 = \$1,051.75$

On a \$1,000 investment, a 5% Percentage Change results in a Payment at Maturity of \$1,051.75, a 5.175% return on the Notes.

Calculation of the Payment at  
Maturity where the

Example 2—Percentage Change is

negative, but the Final Level  
is greater than the Buffer  
Level.

Percentage Change: -15.00%

Payment at Maturity: \$1,000

On a \$1,000 investment, a  
-15% Percentage Change  
results in a Payment at  
Maturity of \$1,000, a 0.00%  
return on the Notes.

Example 3—Calculation of the Payment at Maturity where the Final Level is less than the Buffer Level.

Percentage Change: -40.00%

Payment at Maturity:  $\$1,000 + [\$1,000 \times (-40.00\% + 28.00\%) \times 1.3889] = \$1,000 - \$166.67 = \$833.33$

On a \$1,000 investment, a -40% Percentage Change results in a Payment at Maturity of \$833.33, a -16.667% return on the Notes.

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Gear­ed Buffer­ed Return Notes  
Link­ed to the S&P 500® Index,  
Due Novem­ber 1, 2023

#### SELECTED RISK CONSIDERATIONS

An invest­ment in the Notes involves sig­nif­i­cant risks. Invest­ing in the Notes is not equiv­al­ent to invest­ing direct­ly in the Refer­ence Asset. These risks are explained in more detail in the section “Addi­tional Risk Factors Specific to the Notes,” begin­ning on page PS-4 of the product prospectus supplement. In addi­tion to the risks described in the prospectus supplement and the product prospectus supplement, you should consider the follow­ing:

**Prin­ci­pal at Risk** – Invest­ors in the Notes could lose all or a sub­stan­tial por­tion of their prin­ci­pal amount if there is a decline in the level of the Refer­ence Asset. You will lose 1.3889% of the prin­ci­pal amount of the Notes for each 1% that the Final Level is less than the Initial Level by more than the Buffer Per­centage.

**The Notes Do Not Pay Interest and Your Return May Be Lower than the Return on a Conventional Debt Security of Comparable Maturity** – There will be no periodic interest payments on the Notes as there would be on a conventional fixed-rate or float­ing-rate debt security having the same maturity. The return that you will receive on the Notes, which could be nega­tive, may be less than the return you could earn on other invest­ments. Even if your return is positive, your return may be less than the return you would earn if you bought a conventional senior interest bearing debt security of Royal Bank.

**Payments on the Notes Are Subject to Our Credit Risk, and Changes in Our Credit Ratings Are Expected to Affect the Market Value of the Notes** – The Notes are Royal Bank’s senior unsecured debt securities. As a result, your receipt of the amount due on the maturity date is dependent upon Royal Bank’s ability to repay its obligations at that time. This will be the case even if the level of the Refer­ence Asset increases after the Pricing Date. No assur­ance can be given as to what our financial condition will be at the maturity of the Notes.

**There May Not Be an Active Trading Market for the Notes—Sales in the Secondary Market May Result in Significant Losses** – There may be little or no secondary market for the Notes. The Notes will not be listed on any securities exchange. RBCCM and other affiliates of Royal Bank may make a market for the Notes; however, they are not required to do so. RBCCM or any other affiliate of Royal Bank may stop any market-making activities at any time. Even if a secondary market for the Notes develops, it may not provide significant liquidity or trade at prices advantageous to you. We expect that transaction costs in any secondary market would be high. As a result, the difference between bid and asked prices for your Notes in any secondary market could be substantial.

**You Will Not Have Any Rights to the Securities Included in the Reference Asset** – As a holder of the Notes, you will not have voting rights or rights to receive cash dividends or other distributions or other rights that holders of securities included in the Refer­ence Asset would have. The Final Level will not reflect any dividends paid on the securities included in the Refer­ence Asset, and accord­ingly, any positive return on the Notes may be less than the potential positive return on those securities.

**The Initial Estimated Value of the Notes Will Be Less than the Price to the Public** – The initial estimated value set forth on the cover page and that will be set forth in the final pricing supplement for the Notes does not represent a minimum price at which we, RBCCM or any of our affiliates would be willing to purchase the Notes in any secondary market (if any exists) at any time. If you attempt to sell the Notes prior to maturity, their market value may be lower than the price you paid for them and the initial estimated value. This is due to, among other things, changes in the level of the Refer­ence Asset, the borrowing rate we pay to issue securities of this kind, and the inclusion in the price to the public of the underwriting discount and the estimated costs relating to our hedging of the Notes. These factors, together with various credit, market and economic factors over the term of the Notes, are expected to reduce the price at which you may be able to sell the Notes in any secondary market and will affect the value of the Notes in complex and unpredictable ways. Assuming no change in market conditions or any other relevant factors, the price, if any, at which you may be able to sell your Notes prior to maturity may be less than your original purchase price, as

any such sale price would not be expected to include the underwriting discount and the hedging costs relating to the Notes. In addition to bid-ask spreads, the value of the Notes determined for any secondary market price is expected to be based on the secondary rate rather than the internal funding rate used to price the Notes and determine the initial estimated value. As a result, the secondary price will

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Geared Buffered Return Notes  
Linked to the S&P 500® Index,  
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be less than if the internal funding rate was used. The Notes are not designed to be short-term trading instruments. Accordingly, you should be able and willing to hold your Notes to maturity.

The Initial Estimated Value of the Notes on the Cover Page and that We Will Provide in the Final Pricing Supplement Are Estimates Only, Calculated as of the Time the Terms of the Notes Are Set –The initial estimated value of the Notes will be based on the value of our obligation to make the payments on the Notes, together with the mid-market value of the derivative embedded in the terms of the Notes. See “Structuring the Notes” below. Our estimates are based on a variety of assumptions, including our credit spreads, expectations as to dividends, interest rates and volatility, and the expected term of the Notes. These assumptions are based on certain forecasts about future events, which may prove to be incorrect. Other entities may value the Notes or similar securities at a price that is significantly different than we do.

The value of the Notes at any time after the Pricing Date will vary based on many factors, including changes in market conditions, and cannot be predicted with accuracy. As a result, the actual value you would receive if you sold the Notes in any secondary market, if any, should be expected to differ materially from the initial estimated value of your Notes.

Market Disruption Events and Adjustments – The payment at maturity and the Valuation Date are subject to adjustment as described in the product prospectus supplement. For a description of what constitutes a market disruption event as well as the consequences of that market disruption event, see “General Terms of the Notes—Market Disruption Events” in the product prospectus supplement.

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Gear­ed Buffer­ed Return Notes  
Link­ed to the S&P 500® Index,  
Due Novem­ber 1, 2023

#### INFORMATION REGARDING THE REFERENCE ASSET

All disclo­su­res con­tain­ed in this terms sup­ple­ment regard­ing the Refer­ence Asset, includ­ing, with­out limi­ta­tion, its make up, method of calcu­la­tion, and changes in its com­pon­ents, have been derived from publicly avail­able sources. The infor­ma­tion reflects the poli­cies of, and is sub­ject to change by, S&P Dow Jones Indices LLC (“S&P”). S&P, which owns the copy­right and all other rights to the Refer­ence Asset, has no obliga­tion to con­tinue to pub­lish, and may dis­con­tinue pub­lica­tion of, the Refer­ence Asset. The con­se­quences of S&P dis­con­tin­u­ing pub­lica­tion of the Refer­ence Asset are dis­cussed in the sec­tion of the prod­uct pros­pectus sup­ple­ment enti­tled “Gen­eral Terms of the Notes—Unavail­ability of the Level of the Refer­ence Asset on a Valua­tion Date.” Nei­ther we nor RBCCM accept any res­pon­si­bil­ity for the calcu­la­tion, main­ten­ance or pub­lica­tion of the Refer­ence Asset or any suc­cessor index.

The Refer­ence Asset is intended to provide an indica­tion of the pattern of common stock price movement. The calcu­la­tion of the level of the Refer­ence Asset is based on the rela­tive value of the aggre­gate market value of the com­mon stocks of 500 com­pan­ies as of a par­tic­u­lar time com­pared to the aggre­gate average market value of the com­mon stocks of 500 sim­ilar com­pan­ies dur­ing the base period of the years 1941 through 1943.

S&P calcu­lates the Refer­ence Asset by refer­ence to the prices of the con­stituent stocks of the Refer­ence Asset with­out tak­ing account of the value of divid­ends paid on those stocks. As a result, the return on the Notes will not reflect the return you would realize if you actu­ally owned the Refer­ence Asset con­stituent stocks and received the divid­ends paid on those stocks.

Effec­tive with the Sep­tem­ber 2015 rebal­ance, con­sol­i­dated share class lines will no longer be includ­ed in the Refer­ence Asset. Each share class line will be sub­ject to public float and liq­uid­ity criteria indi­vid­u­ally, but the com­pany’s total market capi­ta­liza­tion will be used to evalu­ate each share class line. This may result in one listed share class line of a com­pany being includ­ed in the Refer­ence Asset while a second listed share class line of the same com­pany is exclud­ed.

#### Computation of the Reference Asset

While S&P currently employs the following methodology to calculate the Refer­ence Asset, no assur­ance can be given that S&P will not modify or change this methodol­ogy in a man­ner that may affect the Pay­ment at Maturity.

Historically, the market value of any component stock of the Refer­ence Asset was calcu­lated as the prod­uct of the market price per share and the number of then out­stand­ing shares of such com­pon­ent stock. In March 2005, S&P began shift­ing the Refer­ence Asset half­way from a market capi­ta­liza­tion weighted formula to a float-adjusted formula, before mov­ing the Refer­ence Asset to full float adjust­ment on Sep­tem­ber 16, 2005. S&P’s criteria for select­ing stocks for the Refer­ence Asset did not change with the shift to float adjust­ment. How­ever, the adjust­ment affects each com­pany’s weight in the Refer­ence Asset.

Under float adjust­ment, the share counts used in calcu­lat­ing the Refer­ence Asset reflect only those shares that are avail­able to invest­ors, not all of a com­pany’s out­stand­ing shares. Float adjust­ment exclud­es shares that are closely held by control groups, other publicly traded com­pan­ies or gov­ern­ment agencies.

In Sep­tem­ber 2012, all shareholdings represent­ing more than 5% of a stock’s out­stand­ing shares, other than hold­ings by “block owners,” were removed from the float for pur­poses of calcu­lat­ing the Refer­ence Asset. Gen­er­ally, these “control hold­ers” will include offi­cers and directors, private equity, ven­ture capi­tal and special equity firms, other publicly traded com­pan­ies that hold shares for control, strategic part­ners, hold­ers of restricted shares, ESOPs, employ­ee and family trusts, founda­tions associ­ated with the com­pany, hold­ers of unlisted share classes of stock, gov­ern­ment enti­ties at all levels (other than gov­ern­ment retire­ment/pension funds) and any indi­vid­ual person who con­trols a 5% or greater stake in a com­pany as reported in regu­latory filings. How­ever, hold­ings by block owners, such as depository banks, pension funds, mutual funds and ETF providers, 401(k) plans of the com­pany, gov­ern­ment retire­ment/pension funds, invest­ment funds of insur­ance com­pan­ies, asset man­agers and invest­ment funds,

independent foundations and savings and investment plans, will ordinarily be considered part of the float. Treasury stock, stock options, equity participation units, warrants, preferred stock, convertible stock, and rights are not part of the float. Shares held in a trust to allow investors in countries outside the country of domicile, such as depository shares and Canadian exchangeable shares are normally part of the float unless those shares form a control block.

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Linked to the S&P 500<sup>®</sup> Index,  
Due November 1, 2023

For each stock, an investable weight factor (“IWF”) is calculated by dividing the available float shares by the total shares outstanding. Available float shares are defined as the total shares outstanding less shares held by control holders. This calculation is subject to a 5% minimum threshold for control blocks. For example, if a company’s officers and directors hold 3% of the company’s shares, and no other control group holds 5% of the company’s shares, S&P would assign that company an IWF of 1.00, as no control group meets the 5% threshold. However, if a company’s officers and directors hold 3% of the company’s shares and another control group holds 20% of the company’s shares, S&P would assign an IWF of 0.77, reflecting the fact that 23% of the company’s outstanding shares are considered to be held for control. As of July 31, 2017, companies with multiple share class lines are no longer eligible for inclusion in the Reference Asset. Constituents of the Reference Asset prior to July 31, 2017 with multiple share class lines will be grandfathered in and continue to be included in the Reference Asset. If a constituent company of the Reference Asset reorganizes into a multiple share class line structure, that company will remain in the Reference Asset at the discretion of the S&P Index Committee in order to minimize turnover.

The Reference Asset is calculated using a base-weighted aggregate methodology. The level of the Reference Asset reflects the total market value of all 500 component stocks relative to the base period of the years 1941 through 1943. An indexed number is used to represent the results of this calculation in order to make the level easier to use and track over time. The actual total market value of the component stocks during the base period of the years 1941 through 1943 has been set to an indexed level of 10. This is often indicated by the notation 1941-43 = 10. In practice, the daily calculation of the Reference Asset is computed by dividing the total market value of the component stocks by the “index divisor.” By itself, the index divisor is an arbitrary number. However, in the context of the calculation of the Reference Asset, it serves as a link to the original base period level of the Reference Asset. The index divisor keeps the Reference Asset comparable over time and is the manipulation point for all adjustments to the Reference Asset, which is index maintenance.

#### Index Maintenance

Index maintenance includes monitoring and completing the adjustments for company additions and deletions, share changes, stock splits, stock dividends, and stock price adjustments due to company restructuring or spinoffs. Some corporate actions, such as stock splits and stock dividends, require changes in the common shares outstanding and the stock prices of the companies in the Reference Asset, and do not require index divisor adjustments.

To prevent the level of the Reference Asset from changing due to corporate actions, corporate actions which affect the total market value of the Reference Asset require an index divisor adjustment. By adjusting the index divisor for the change in market value, the level of the Reference Asset remains constant and does not reflect the corporate actions of individual companies in the Reference Asset. Index divisor adjustments are made after the close of trading and after the calculation of the Reference Asset closing level.

Changes in a company’s shares outstanding and IWF due to its acquisition of another public company are made as soon as reasonably possible. At S&P’s discretion, de minimis merger and acquisition share changes are accumulated and implemented with the quarterly share rebalancing.

All other changes of less than 5% are accumulated and made quarterly on the third Friday of March, June, September, and December.

Changes in a company’s total shares outstanding of 5% or more due to public offerings are made as soon as reasonably possible. Other changes of 5% or more (for example, due to tender offers, Dutch auctions, voluntary exchange offers, company stock repurchases, private placements, acquisitions of private companies or non-index companies that do not trade on a major exchange, redemptions, exercise of options, warrants, conversion of preferred stock, notes, debt, equity participations, at-the-market stock offerings or other recapitalizations) are made weekly, and are generally announced on Fridays for implementation after the close of trading the following Friday (one week later). If a 5% or

more share change causes a company's IWF to change by five percentage points or more, the IWF is updated at the same time as the share change. IWF changes resulting from partial tender offers are considered on a case-by-case basis.

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Gearred Buffered Return Notes  
Linked to the S&P 500<sup>®</sup> Index,  
Due November 1, 2023

#### License Agreement

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 Due November 1, 2023

#### Historical Information

The graph below sets forth the information relating to the historical performance of the Reference Asset. In addition, below the graph is a table setting forth the intra-day high, intra-day low and period-end closing levels of the Reference Asset. The information provided in this table is for the four calendar quarters of 2013, 2014, 2015 and 2016 and the first, second and third quarters of 2017, and for the period from October 1, 2017 through October 5, 2017.

We obtained the information regarding the historical performance of the Reference Asset in the chart below from Bloomberg Financial Markets.

We have not independently verified the accuracy or completeness of the information obtained from Bloomberg Financial Markets. The historical performance of the Reference Asset should not be taken as an indication of its future performance, and no assurance can be given as to the Final Level of the Reference Asset. We cannot give you assurance that the performance of the Reference Asset will result in any positive return on your initial investment. S&P 500® Index ("SPX")

Period-Start Date	Period-End Date	High Intra-Day Level of the Reference Asset	Low Intra-Day Level of the Reference Asset	Period-End Closing Level of the Reference Asset
1/1/2013	3/31/2013	1,570.28	1,426.19	1,569.19
4/1/2013	6/30/2013	1,687.18	1,536.03	1,606.28
7/1/2013	9/30/2013	1,729.86	1,604.57	1,681.55
10/1/2013	12/31/2013	1,849.44	1,646.47	1,848.36
1/1/2014	3/31/2014	1,883.97	1,737.92	1,872.34
4/1/2014	6/30/2014	1,968.17	1,814.36	1,960.23
7/1/2014	9/30/2014	2,019.26	1,904.78	1,972.29
10/1/2014	12/31/2014	2,093.55	1,820.66	2,058.90
1/1/2015	3/31/2015	2,119.59	1,980.90	2,067.89
4/1/2015	6/30/2015	2,134.72	2,048.38	2,063.11
7/1/2015	9/30/2015	2,132.82	1,867.01	1,920.03
10/1/2015	12/31/2015	2,116.48	1,893.70	2,043.94
1/1/2016	3/31/2016	2,072.21	1,810.10	2,059.74
4/1/2016	6/30/2016	2,120.55	1,991.68	2,098.86
7/1/2016	9/30/2016	2,193.81	2,074.02	2,168.27
10/1/2016	12/28/2016	2,277.53	2,083.79	2,238.83
1/1/2017	3/31/2017	2,400.98	2,245.13	2,362.72
4/1/2017	6/30/2017	2,453.82	2,328.95	2,423.41
7/1/2017	9/30/2017	2,519.44	2,407.70	2,519.36
10/1/2017	10/5/2017	2,552.51	2,520.40	2,552.07

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

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#### SUPPLEMENTAL DISCUSSION OF U.S. FEDERAL INCOME TAX CONSEQUENCES

The following disclosure supplements, and to the extent inconsistent supersedes, the discussion in the product prospectus supplement dated January 12, 2016 under “Supplemental Discussion of U.S. Federal Income Tax Consequences.”

Under Section 871(m) of the Code, a “dividend equivalent” payment is treated as a dividend from sources within the United States. Such payments generally would be subject to a 30% U.S. withholding tax if paid to a non-U.S. holder. Under U.S. Treasury Department regulations, payments (including deemed payments) with respect to equity-linked instruments (“ELIs”) that are “specified ELIs” may be treated as dividend equivalents if such specified ELIs reference an interest in an “underlying security,” which is generally any interest in an entity taxable as a corporation for U.S. federal income tax purposes if a payment with respect to such interest could give rise to a U.S. source dividend. However, the IRS has issued guidance that states that the U.S. Treasury Department and the IRS intend to amend the effective dates of the U.S. Treasury Department regulations to provide that withholding on dividend equivalent payments will not apply to specified ELIs that are not delta-one instruments and that are issued before January 1, 2019. Based on our determination that the Notes are not delta-one instruments, non-U.S. holders should not be subject to withholding on dividend equivalent payments, if any, under the Notes. However, it is possible that the Notes could be treated as deemed reissued for U.S. federal income tax purposes upon the occurrence of certain events affecting the Reference Asset or the Notes (for example, upon a Reference Asset rebalancing), and following such occurrence the Notes could be treated as subject to withholding on dividend equivalent payments. Non-U.S. holders that enter, or have entered, into other transactions in respect of the Reference Asset or the Notes should consult their tax advisors as to the application of the dividend equivalent withholding tax in the context of the Notes and their other transactions. If any payments are treated as dividend equivalents subject to withholding, we (or the applicable withholding agent) would be entitled to withhold taxes without being required to pay any additional amounts with respect to amounts so withheld.

#### SUPPLEMENTAL PLAN OF DISTRIBUTION (CONFLICTS OF INTEREST)

We expect that delivery of the Notes will be made against payment for the Notes on or about October 31, 2017, which is the second (2nd) business day following the Pricing Date (this settlement cycle being referred to as “T+2”). See “Plan of Distribution” in the prospectus dated January 8, 2016. For additional information as to the relationship between us and RBCCM, please see the section “Plan of Distribution-Conflicts of Interest” in the prospectus dated January 8, 2016. In the initial offering of the Notes, they will be offered to investors at a purchase price equal to par, except with respect to certain accounts as indicated on the cover page of this document.

The value of the Notes shown on your account statement may be based on RBCCM’s estimate of the value of the Notes if RBCCM or another of our affiliates were to make a market in the Notes (which it is not obligated to do). That estimate will be based upon the price that RBCCM may pay for the Notes in light of then prevailing market conditions, our creditworthiness and transaction costs. For a period of approximately 12 months after the issue date of the Notes, the value of the Notes that may be shown on your account statement may be higher than RBCCM’s estimated value of the Notes at that time. This is because the estimated value of the Notes will not include the underwriting discount and our hedging costs and profits; however, the value of the Notes shown on your account statement during that period may initially be a higher amount, reflecting the addition of RBCCM’s underwriting discount and our estimated costs and profits from hedging the Notes. This excess is expected to decrease over time until the end of this period. After this period, if RBCCM repurchases your Notes, it expects to do so at prices that reflect their estimated value.



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#### STRUCTURING THE NOTES

The Notes are our debt securities, the return on which is linked to the performance of the Reference Asset. As is the case for all of our debt securities, including our structured notes, the economic terms of the Notes reflect our actual or perceived creditworthiness at the time of pricing. In addition, because structured notes result in increased operational, funding and liability management costs to us, we typically borrow the funds under these Notes at a rate that is more favorable to us than the rate that we might pay for a conventional fixed or floating rate debt security of comparable maturity. Using this relatively lower implied borrowing rate rather than the secondary market rate, is a factor that is likely to reduce the initial estimated value of the Notes at the time their terms are set. Unlike the estimated value included in this terms supplement or in the final pricing supplement, any value of the Notes determined for purposes of a secondary market transaction may be based on a different funding rate, which may result in a lower value for the Notes than if our initial internal funding rate were used.

In order to satisfy our payment obligations under the Notes, we may choose to enter into certain hedging arrangements (which may include call options, put options or other derivatives) on the issue date with RBCCM or one of our other subsidiaries. The terms of these hedging arrangements take into account a number of factors, including our creditworthiness, interest rate movements, the volatility of the Reference Asset, and the tenor of the Notes. The economic terms of the Notes and their initial estimated value depend in part on the terms of these hedging arrangements.

The lower implied borrowing rate is a factor that reduces the economic terms of the Notes to you. The initial offering price of the Notes also reflects the underwriting commission and our estimated hedging costs. These factors result in the initial estimated value for the Notes on the Pricing Date being less than their public offering price. See “Selected Risk Considerations—The Initial Estimated Value of the Notes Will Be Less than the Price to the Public” above.

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