Extended Hours Trading Risk Disclosure

PLEASE RETAIN A COPY OF THIS DOCUMENT FOR YOUR RECORDS

RBC Capital Markets, LLC ("RBC CM") is registered as a broker-dealer and investment adviser with the U.S. Securities and Exchange Commission (SEC). You may receive services from RBC CM as a client of its RBC Wealth Management division or as a client of another brokerdealer or registered investment adviser for which RBC CM provides custody and clearing services through its RBC Clearing & Custody division.

You should consider the following points before engaging in extended hours trading. "Extended hours trading" means trading outside of "regular trading hours." "Regular trading hours" generally means the time between 9:30 a.m. and 4:00 p.m. Eastern Standard Time.

- Risk of Lower Liquidity. Liquidity refers to the ability of market participants to buy and sell securities. Generally, the more orders that are available in a market, the greater the liquidity. Liquidity is important because with greater liquidity it is easier for investors to buy or sell securities, and as a result, investors are more likely to pay or receive a competitive price for securities purchased or sold. There may be lower liquidity in extended hours trading as compared to regular market hours. As a result, your order may only be partially executed, or not at all.
- **Risk of Higher Volatility.** Volatility refers to the changes in price that securities undergo when trading. Generally, the higher the volatility of a security, the greater the price swings. There may be greater volatility in extended hours trading than in regular market hours. As a result, your order may only be partially executed, or not at all, or may receive an inferior price in extended hours trading than during regular market hours.
- **Risk of Changing Prices.** The prices of securities traded in extended hours trading may not reflect the prices either at the end of regular market hours, or upon the opening. As a result, you may receive an inferior price in extended hours than you would during regular market hours.

- Risk of Unlinked Markets. Depending upon the extended hours trading system or the time of day, the prices displayed on a particular extended hours trading system may not reflect the prices in other concurrently operating extended hours trading systems dealing in the same securities. Accordingly, you may receive an inferior price in one extended hours trading system than you would in another extended hours trading system.
- Risk of News Announcements. Normally, issuers make news announcements that may affect the price of their securities after regular market hours. Similarly, important financial information is frequently announced outside of regular market hours. In extended hours trading, these announcements may occur during trading, and if combined with lower liquidity and higher volatility, may cause an exaggerated and unsustainable effect on the price of a security.
- **Risk of Wider Spreads.** The spread refers to the difference in price between what an investor can buy a security for and what an investor can sell it for. Lower liquidity and higher volatility in extended hours trading may result in wider than normal spreads for a particular security.
- Risk of Lack of Calculation or Dissemination of Underlying Index Value or Intraday Indicative Value. For certain derivative securities, an updated underlying index value or intraday indicative value may not be calculated or publicly disseminated in extended trading hours. Since the underlying index value and intraday indicative value are not calculated or widely disseminated during extended hours trading, an investor who is unable to calculate implied values for certain derivative securities in those trading sessions may be at a disadvantage to market professionals.

Investment and insurance products offered through RBC Capital Markets, LLC are not insured by the FDIC or any other federal government agency, are not deposits or other obligations of, or guaranteed by, a bank or any bank affiliate, and are subject to investment risks, including possible loss of the principal amount invested.

