Chicago Board Options Exchange Margin Manual

April 2000

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INTRODUCTION

This manual has been developed by CBOE to assist the margin personnel of member firms as well as to serve as a guide to all users of options. The requirements explained here are based on publication date rules and regulations, and therefore, subject to change. This manual should be used as a reference document and is not intended to be an all-encompassing restatement of Federal Reserve Board and Exchange margin rules. Persons using this manual should be familiar with margin computational methods and procedures as well as the margin requirements for all types of securities. Users contemplating margin account transactions are reminded that a \$2,000 minimum margin account equity is required to effect new securities transactions and commitments [CBOE Rule 12.3(i)]. Further, broker-dealers require a minimum margin account equity well in excess of \$2,000 for uncovered, short option transactions. It should be emphasized that substitutions involving loan value and non-loan value securities be given consideration with regard to the relative changes in an account's maximum loan value and debit balance rather than only to the proceeds of a sale.

For further information, please contact CBOE's Department of Financial and Sales Practice Compliance, (312) 786-7718.

Long Options (listed) Equity, Equity Index with Expiration > 9 months	Percentage of Purcha Cost / Market Value 75%	ase	Effective Date 8/23/99
Short Options (listed) Equity, Narrow Based Index Broad Based Index Interest Rate Options	Percentage of Underlying 20% 15% 10%	Minimum Percentage 10% 10% 5%	Effective Date 6/06/88 6/06/88 6/23/89
Spreads Long Butterfly Spread Short Box Spread	Requirement Pay Debit in Full Strike Price Differential		Effective Date 8/23/99 8/23/99

Long options with 9 months or less until expiration remain non-marginable. Note that in respect of short put options, the minimum percentage is applied to the put's exercise price instead of to the underlying value (effective 6/02/97). Butterfly and box spreads must be structured as defined in CBOE rules. Also, certain long box spreads are eligible for margin of 50% of the exercise price differential (effective 8/23/99). Additionally, certain spread strategies having limited risk are permitted in the cash account (effective 8/23/99), as detailed later in this Margin Manual. Certain strategies involving an American style option and a position in the underlying (i.e., Long Put / Long Underlying, Long Call / Short Underlying, Conversion, Reverse Conversion and Collar) are eligible for reduced maintenance margin requirements (effective 8/23/99), as detailed later in this Margin Manual.

Option margin percentage requirements are subject to change. Contact the CBOE's Department of Financial and Sales Practice Compliance for current percentages, (312) 786-7718.

The prices of the various stock and option positions used as examples in the sample calculation section of this Margin Manual are expressed in fractions. At the time of publication, the securities industry was preparing, but had not yet begun, to quote and trade stock and options in decimal format. However, whether prices are expressed in fractions or decimals, the methodology for calculating margin requiremements remains the same.

INITIAL AND MAINTENANCE REQUIREMENTS

This schedule contains a description of Exchange margin requirements for various positions in put options, call options, combination put-call positions and underlying positions offset by option positions. Unless noted otherwise, requirements are for listed options. Initial requirements must be satisfied within five (5) business days from trade date. Sale proceeds may be applied toward the initial requirement. Maintenance requirements must be satisfied within fifteen (15) calendar days. Positions may be margined separately to obtain lowest requirement.

	OPTION TYPE	CASH ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT MAINTENANCE REQUIREMENT
Long Put or Long Call 9 months or less until expiration	Equity; Broad and Narrow Based Indexes; Interest Rate Options; Long CAPS	Pay for each put or call in full.	Pay for each put or call in full. Cash need not be deposited in excess of put or call cost.	None required (no loan value).
Long Put or Long Call more than 9 months until expiration	Equity; Broad and Narrow Based Equity Indexes only.¹ [For all other option types, the requirement is the same as for a 9 month or less option (above).]	Pay for each put or call in full.	Listed 75% of the total cost of the option. OTC 75% of the intrinsic value (in-the-money amount) of the option plus 100% of the amount by which the option's purchase price exceeds its intrinsic value. OTC option must be American style exercise and be guaranteed by the carrying broker-dealer.	Listed 75% of option market value. OTC 75% of the intrinsic value of the option. Note that in either case, the option has no value for margin purposes when time remaining to expiration reaches 9 months.

¹ Other than equity options and broad and narrow based equity index options, only stock index warrants are eligible for purchase on margin.

		CASH ACCOUNT	MARGIN ACCOUNT	MARGIN ACCOUNT
	OPTION TYPE	INITIAL REQUIREMENT	INITIAL REQUIREMENT	MAINTENANCE REQUIREMENT
Short Put or Short Call	Broad Based Index	Put Deposit cash or cash equivalents² equal to aggregate exercise price, or an escrow agree- ment³ for a short index put option. Call Deposit escrow agreement for a short index call option. ********* Whether put or call, sale proceeds not released until deposit is made.	100% of option proceeds plus 15% of underlying index value less out-of-the-money amount, if any, to a minimum for calls of option proceeds plus 10% of the underlying index value, and a minimum for puts of option proceeds plus 10% of the put's exercise price.	For each short option, 100% of option market value plus 15% of underlying index value less out-of-the-money amount, if any, to a minimum for calls of option market value plus 10% of the underlying index value, and a minimum for puts of option market value plus 10% of the put's exercise price.
	Equity, Narrow Based Index	Put Deposit cash or cash equivalents equal to aggregate exercise price or appropriate escrow agreement. Call Deposit appropriate escrow agreement. ********* Whether put or call, sale proceeds not released until deposit is made.	100% of option proceeds plus 20% of underlying security / index value less out-of-the-money amount, if any, to a minimum for calls of option proceeds plus 10% of the underlying security / index value, and a minimum for puts of option proceeds plus 10% of the put's exercise price.	For each short option, 100% of option market value plus 20% of underlying security / index value less out-of-the-money amount, if any, to a minimum for calls of option market value plus 10% of the underlying security / index value, and a minimum for puts of option market value plus 10% of the put's exercise price.

² Acceptable as cash equivalents (pursuant to Regulation T of the Board of Governors of the Federal Reserve System) are securities issued or guaranteed by the United States or its agencies, negotiable bank certificates of deposit, banker's acceptances issued by banking institutions in the United States and payable in the United States, or money market mutual funds.

³ The term "escrow agreement" (pursuant to Exchange Rules), when used in connection with non cash-settled call or put options carried short, means any agreement issued in a form acceptable to the Exchange under which a bank holding the underlying security (in the case of a call option) or required cash, cash equivalents or a combination thereof (in the case of a put option), is obligated to deliver to the creditor (in the case of a call option) or accept from the creditor (in the case of a put option) the underlying security against payment of the exercise price in the event the call or put is assigned an exercise notice.

The term "escrow agreement," when used in connection with cash-settled call or put options, stock index warrants, currency index warrants or currency warrants carried short, means any agreement issued in a form acceptable to the Exchange under which a bank holding cash, cash equivalents, one or more qualified equity securities or a combination thereof in the case of a call option or warrant; or cash, cash equivalents or a combination thereof in the case of a put option or warrant, is obligated (in the case of an option) to pay the creditor the exercise settlement amount in the event an option is assigned an exercise notice or (in the case of a warrant) the funds sufficient to purchase a warrant sold short in the event of a buy-in.

	OPTION TYPE	CASH ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT MAINTENANCE REQUIREMENT
Short Put or Short Call	CAPS	Deposit cash or cash equivalents equal to the cap interval times the index multiplier.	The lesser of: a) the cap interval times the index multiplier or b) 100% of the option proceeds plus 15% of the underlying index value less out-of-the-money amount, if any, to a minimum for calls of option proceeds plus 10% of the underlying index value, and a minimum for puts of option proceeds plus 10% of the put's exercise price.	The lesser of: a) the cap interval times the index multiplier or b) 100% of the option market value plus 15% of the underlying index value less out-of-the-money amount, if any, to a minimum for calls of option market value plus 10% of the underlying index value, and a minimum for puts of option market value plus 10% of the put's exercise price.
	Interest Rate Options	Put Deposit cash or cash equivalents equal to aggregate exercise price. Sale proceeds not released until deposit is made. Call Not permitted. 4	100% of option proceeds plus 10% of the underlying value less out-of-the-money amount, if any, to a minimum for calls of option proceeds plus 5% of the underlying value, and a minimum for puts of option proceeds plus 5% of the put's exercise price.	100% of option market value plus 10% of the underlying value less out-of-the-money amount, if any, to a minimum for calls of option market value plus 5% of the underlying value, and a minimum for puts of option market value plus 5% of the put's exercise price.
Short Put and Short Call	Equity	Deposit an escrow agreement for each option. See requirement for short equity put or call.	For the same underlying security, short put or short call requirement, whichever is greater, plus the option proceeds of the other side.	For the same underlying security, short put or short call requirement, whichever is greater, plus the option market value of the other side.

⁴ Escrow agreements are not currently acceptable in lieu of a margin deposit for short interest rate option calls. In many instances, institutional entities are **not** barred from trading these instruments on a margin basis, provided that the options serve to offset the risk exposure of other interest rate investments. Contact the Exchange's Department of Financial and Sales Practice Compliance at (312) 786-7718 for more detailed information.

	OPTION TYPE	CASH ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT MAINTENANCE REQUIREMENT
Short Put and Short Call	Broad and Narrow Based Indexes	Deposit an escrow agreement for each option. See requirement for short index put or call.	For the same underlying index with the same index multiplier, short put or short call requirement, whichever is greater, plus the option proceeds of the other side.	For the same underlying index with the same index multiplier, short put or short call requirement, whichever is greater, plus the option market value of the other side.
	Interest Rate Options	Not permitted. ⁵	For the same underlying interest rate composite, short put or short call requirement, whichever is greater, plus the option proceeds of the other side.	For the same underlying interest rate composite, short put or short call requirement, whichever is greater, plus the option market value of the other side.
Put Spread or Call Spread ⁶ long side expires with or after short side	Equity; Broad and Narrow Based Indexes; Interest Rate Options; CAPS	Not permitted, except as provided below.	For the same underlying instrument and, as applicable, the same index multiplier; the amount by which the long put (short call) aggregate exercise price is below the short put (long call) aggregate exercise price. Long side must be paid for in full. Proceeds from short option sale may be applied. ⁷	Initial spread requirement must be maintained.

⁵ Treat as separate positions (See requirement for short interest rate put or call).

⁶ Reduced value options for the same underlying covering the same total aggregate underlying value may be combined with regular options for spread and straddle positions. However, spread treatment is **not** available for a long CAPS offset by a short regular option.

⁷ It is important to remember that under certain circumstances, it is possible that the spread margin held by a carrying broker-dealer could become insufficient to cover the assignment obligation on the short option if the long side is a European style option that can not be exercised, and that option is trading at a discount to its intrinsic value.

	OPTION TYPE	CASH ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT MAINTENANCE REQUIREMENT
Put Spread or Call Spread long side expires with short side all component options are European style exercise index options all component options are cash settled	Broad and Narrow Based Indexes, CAPS	For the same underlying instrument and, as applicable, the same index multiplier; deposit and maintain cash or cash equivalents equal to the amount by which the long put (short call) aggregate exercise price is below the short put (long call) aggregate exercise price. Long side must be paid for in full. Proceeds from short option sale may be applied. An escrow agreement representing cash or cash equivalents may be deposited in lieu of requirement.	See above.	See above.
Long Butterfly Spread two short options of the same series offset by one long option of the same type with a higher strike price and one long option of the same type with a lower strike price all component options have the same expiration intervals between exercise prices are equal	Cash Account Broad and Narrow Based Indexes only (see next cell). Margin Account Equity; Broad and Narrow Based Indexes; Interest Rate Options; CAPS	Only long butterfly spreads composed of European style exercise, cash-settled index options are permitted in the cash account. For the same underlying instrument and, as applicable, the same index multiplier; the long sides must be paid for in full. Proceeds from short option sale may be applied.	For the same underlying instrument and, as applicable, the same index multiplier; the long sides must be paid for in full. Proceeds from short option sale may be applied.	Initial long butterfly spread requirement must be maintained.

	OPTION TYPE	CASH ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT MAINTENANCE REQUIREMENT
Short Butterfly Spread two long options of the same series offset by one short option of the same type with a higher strike price and one short option of the same type with a lower strike price all component options have the same expiration intervals between exercise prices are equal	Cash Account Broad and Narrow Based Indexes only (see next cell). Margin Account Equity; Broad and Narrow Based Indexes; Interest Rate Options; CAPS	Only short butterfly spreads composed of European style exercise, cash-settled index options are permitted in the cash account. For the same underlying instrument and, as applicable, the same index multiplier, deposit and maintain cash or cash equivalents equal to: Puts The amount of the aggregate difference between the two highest exercise prices or Calls The aggregate difference between the two lowest exercise prices. Net proceeds from sale of short options may be applied. An escrow agreement representing cash or cash equivalents may be deposited in lieu of requirement.	For the same underlying instrument and, as applicable, the same index multiplier: Puts The amount of the aggregate difference between the two highest exercise prices. Calls The aggregate difference between the two lowest exercise prices. Net proceeds from sale of short options may be applied.	Initial short butterfly spread requirement must be maintained.

long call and short put with the same exercise price ("buy side") coupled with a long put and short call with the same exercise price ("sell side"); buy side exercise price is lower than the sell side exercise price all component options must expire at the same time	OPTION TYPE Cash Account Broad and Narrow Based Indexes only (see next cell). Margin Account Equity; Broad and Narrow Based Indexes; Interest Rate Options; CAPS	CASH ACCOUNT INITIAL REQUIREMENT Only long box spreads composed of European style exercise, cash-settled index options are permitted in the cash account. For the same underlying instrument and, as applicable, the same index multiplier; the long sides must be paid for in full. Proceeds from sale of short options may be applied.	MARGIN ACCOUNT INITIAL REQUIREMENT For the same underlying instrument and, as applicable, the same index multiplier; the long sides must be paid for in full. Proceeds from sale of short options may be applied. <exception> Long box spreads composed of European style options. 50% of the aggregate difference in the exercise prices. Proceeds from short option sales may be applied. Long box spread may be valued at an amount not to exceed 100% of the aggregate difference in the exercise prices.</exception>	MARGIN ACCOUNT MAINTENANCE REQUIREMENT Initial long box spread requirement must be maintained.
Short Box Spread long call and short put with the same exercise price ("buy side") coupled with a long put and short call with the same exercise price ("sell side"); buy side exercise price is higher than the sell side exercise price all component options must expire at the same time	Cash Account Broad and Narrow Based Indexes only (see next cell). Margin Account Equity; Broad and Narrow Based Indexes; Interest Rate Options; CAPS	Only short box spreads composed of European style exercise, cash-settled index options are permitted in the cash account. For the same underlying instrument and, as applicable, the same index multiplier; deposit and maintain at least the amount of the aggregate difference in the exercise prices. Net proceeds from sale of short options may be applied. An escrow agreement representing cash and / or cash equivalents may be deposited in lieu of requirement.	For the same underlying instrument and, as applicable, the same index multiplier; deposit and maintain at least the amount of the aggregate difference in the exercise prices. Net proceeds from sale of short options may be applied.	Initial short box spread requirement must be maintained.

	OPTION TYPE	CASH ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT MAINTENANCE REQUIREMENT
Short Put and Short Underlying (not permitted for CAPS or interest rate options)	Equity	Not permitted	None required on short put. Short sale proceeds plus 50% requirement on short stock position.	None required on short put. Short stock requirement is 100% of stock market value plus: •for stock with market value of less than \$5.00 per share, the greater of \$2.50 per share or 100% of stock market value •for stock with market value •for stock with market value of \$5.00 or more per share, the greater of \$5.00 per share or 30% of stock market value. Any amount (aggregate) by which the exercise price of the put exceeds the market price of the stock must be added to the stock maintenance requirement, and to the stock initial requirement for purposes of determining if excess Reg. T equity exists.
	Broad and Narrow Based Indexes	Not permitted.	None required on short put. Short sale proceeds plus 50% requirement on short underlying stock basket.	None required on short put. On underlying, same maintenance requirement as for stock (above).
Short Call and Long Underlying (not permitted for CAPS or interest rate options)	Equity	Pay for underlying position in full.	None required on short call. 50% requirement on long stock position.	None required on short call. 25% requirement on long stock position. Long underlying position must be valued at lower of current market value or call exercise price for margin equity purposes.

	OPTION TYPE	CASH ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT MAINTENANCE REQUIREMENT
Short Call and Long Underlying (not permitted for CAPS or interest rate options)	Broad and Narrow Based Indexes	Not permitted.	None required on short call. 50% requirement on long underlying stock basket; or unit investment trust or open end mutual fund specifically approved by the Exchange.	None required on short call. On underlying, same maintenance requirement as for stock (above). Long underlying position must be valued at lower of current market value or call exercise price for margin equity purposes.
Short Call and Long Marginable Convertibles (the convertible security must be immediately convertible or exchangeable and may not expire before the short call; no money payable upon exchange or conversion; equity options only)	Equity	Pay for the convertible security in full.	None required on short call. 50% requirement on convertible security.	None required on short call. 25% requirement on convertible security. The convertible security must be valued at lower of current market value or call exercise price for margin equity purposes.
Short Call and Long Marginable Stock Warrants (money payable upon exercise or conversion; equity options only)	Equity	Not permitted.	None required on short call. 100% requirement on warrants plus any amount by which exercise price of warrants exceeds option exercise price.8 Warrants may not expire before the short call. The warrant may not be given value for margin purposes.	Initial requirement must be maintained.

⁸ Regulation T allows loan value on a long, marginable stock warrant. However, pursuant to CBOE rules, when a long warrant is spread with a short call option, the warrant may contribute no equity to the account (no loan value). Therefore, the higher Exchange maintenance requirement becomes both the initial and maintenance requirement.

	OPTION TYPE	CASH ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT MAINTENANCE REQUIREMENT
Long Put and Long Underlying	Equity, Index ⁹	Pay for each position in full.	Pay for put in full. 50% requirement on long stock position.	None required on put (no loan value). Provided long put is American style exercise, long stock requirement is the lower of: 1) 10% of the put exercise price plus 100% of any out-of-the-money amount, or 2) 25% of stock market value.
Long Call and Short Underlying	Equity, Index ⁹	Not permitted.	Pay for call in full. Short sale proceeds plus 50% requirement on short stock position.	None required on call (no loan value). Provided long call is American style exercise, short stock requirement is 100% of stock market value plus the lower of: 1) 10% of the call exercise price plus 100% of any out-of-the-money amount, or 2) • for stock with market value of less than \$5.00 per share, the greater of \$2.50 per share or 100% of stock market value • for stock with market value of \$5.00 or more per share, the greater of \$5.00 per share or 30% of stock market value.

⁹ Permitted only for options on individual stocks and stock index options. For stock index options, a qualified stock basket may serve as an underlying component for the following strategies: Long Put and Long Underlying; Long Call and Short Underlying; Conversion; Reverse Conversion; and Collar. A unit investment trust ("UIT") replicating the S&P 500 index that has been approved by the Exchange may serve as the underlying component in respect of the Conversion and Collar strategies. When an option is part of a hedge strategy, loan value on the option is not permitted.

	OPTION TYPE	CASH ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT MAINTENANCE REQUIREMENT
Conversion long put and long underlying with short call put and call must have same expiration and exercise price	Equity, Index ⁹	Pay for put and long stock in full. No requirement on short call.	Pay for put in full. No requirement on short call. 50% requirement on long stock position.	None required on put (no loan value) or call. Provided options are American style exercise, long stock requirement is 10% of the exercise price. Long stock position must be valued at lower of current market value or call exercise price for margin equity purposes.
Reverse Conversion long call and short underlying with short put put and call must have same expiration and exercise price	Equity, Index ⁹	Not permitted.	Pay for call in full. No requirement on short put. Short sale proceeds plus 50% requirement on short stock position.	None required on put (no loan value) or call. Provided options are American style exercise, short stock requirement is 10% of the exercise price. Any amount (aggregate) by which the exercise price of the put exceeds the market price of the stock must be added to the stock maintenance requirement, and to the stock initial requirement for the purpose of determining if excess Reg. T equity exists.
Collar long put and long underlying with short call put and call must have same expiration put exercise price lower than call exercise price	Equity, Index ⁹	Pay for put and long stock in full. No requirement on short call.	Pay for put in full. No requirement on short call. 50% requirement on long stock position.	None required on put (no loan value) or call. Provided options are American style exercise, long stock requirement is the lower of: 1) 10% of the put exercise price plus any put out-of-themoney amount, or 2) 25% of the call exercise price. Long stock position must be valued at lower of current market value or call exercise price for margin equity purposes.

FLEX OPTIONS

The preceding margin requirements also apply to FLEX Options, with some exceptions which are reflected below (Put Spreads or Call Spreads; Short Put and Short Call).

Note that FLEX Options can be offset against conventional options. Also, FLEX Options are allowed to be offset with FLEX Options or conventional options having a different exercise style (American vs. European). Additionally, Index FLEX Options are allowed to be offset with Index FLEX Options or conventional index options with a different settlement value determination (open vs. close).

	OPTION TYPE	CASH ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT MAINTENANCE REQUIREMENT
Put Spread or Call Spread FLEX vs. FLEX FLEX vs. Conventional	Equity	REQUIREMENT Not permitted.	Long side must expire with or after the short side. Spreads between different exercise styles (American vs. European) permitted. For the same underlying instrument and, as applicable, the same index multiplier; the amount by which the long put (short call) aggregate exercise price is below the short put (long call) aggregate exercise price. Long side must be paid for in full. Proceeds from short option sale may be applied. 10	REQUIREMENT Initial spread requirement must be maintained.

¹⁰ It is important to remember that under certain circumstances, it is possible that the spread margin held by a carrying broker-dealer could become insufficient to cover the assignment obligation on the short option if the long side is a European style option that can not be exercised, and that option is trading at a discount to its intrinsic value.

	OPTION TYPE	CASH ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT INITIAL REQUIREMENT	MARGIN ACCOUNT MAINTENANCE REQUIREMENT
Put Spread or Call Spread FLEX vs. FLEX FLEX vs. Conventional	Index	Both long and short side must be European style exercise, cash settled index options Long must expire with the short. For the same underlying instrument and, as applicable, the same index multiplier; deposit and maintain cash or cash equivalents equal to the amount by which the long put (short call) aggregate exercise price is below the short put (long call) aggregate exercise price. Long side must be paid for in full. Proceeds from short option sale may be applied. An escrow agreement representing cash or cash equivalents may be deposited in lieu of requirement.	Also, long and short may have different settlement value determinations (open vs. close). If settlement value determinations differ, and both positions expire on the same day, each position must be margined separately two days prior to expiration.	See above. Also, long and short may have different settlement value determinations (open vs. close). If settlement value determinations differ, and both positions expire on the same day, each position must be margined separately two days prior to expiration.
Short Put and Short Call FLEX vs. FLEX FLEX vs. Conventional	Equity	Deposit an escrow agreement for each option. See requirement for short equity put or call.	Different exercise styles are permitted (American vs. European). For the same underlying security, short put or short call requirement whichever is greater, plus the option proceeds of the other side.	For the same underlying security, short put or short call requirement whichever is greater, plus the option market value of the other side.
	Index	See above.	See above.	See above.
16			Also, the options may have different settlement value determinations (open vs. close). If settlement value determinations differ, and both positions expire on the same day, each position must be margined separately two days prior to expiration.	Also, the options may have different settlement value determinations (open vs. close). If settlement value determinations differ, and both positions expire on the same day, each position must be margined separately two days prior to expiration.

SAMPLE CALCULATIONS FOR OPTIONS	With the exception of the examples concerning maintenance margin on pages 37 through 40, the examples that follow only reflect the margin treatment on the illustrated positions at the time they are effected. The examples do not demonstrate the impact of brokerage charges, such as commissions and interest, or the effect of adverse market movements, which could result in losses and maintenance margin calls. It should be noted that current option market value must be used in lieu of option proceeds when calculating maintenance margin requirements. The inclusion of any particular strategy in this publication is solely the result of either industry practice or related inquiries received by the Exchange. No statement in this publication should be construed as an endorsement of a specific strategy.			
EQUITY OPTIONS: LONG OPTION EXAMPLES	CALCULATION, REQUIREMENT AND EXPLANATION			
Long Options With 9 Months or Less to Expiration (Listed or OTC)				
Long 1 Dec 125 call at 5 (expiring in 6 months, any style	Margin Calculation: 100 x 5 =	\$500.00		
exercise)	Margin Requirement:	\$500.00		
Underlying security at 128-1/2	SMA ¹¹ Debit or Margin Call:	\$500.00		
	Explanation: Long options with 9 months or less until 6	expiration must be paid for in full.		
Long Options With More Than 9 Months to Expiration (Listed)				
Long 1 Dec 80 call at 12 (expiring in 18 months, can be either	Margin Calculation: 75% x 12 x 100 =	\$900.00		
American or European style exercise) Underlying at 78	Margin Requirement:	\$900.00		
Circuitying at 76	SMA Debit or Margin Call:	\$900.00		
	<i>Explanation:</i> Initial (maintenance) margin requirement for long listed options with more than 9 months until expiration is 75% of the premium (market value). Option has no value for margin purposes when time remaining to expiration reaches 9 months.			
Long Options With More Than 9 Months to Expiration (OTC)				
Long 1 Jun 75 call at 4-1/2 (expiring in 12 months, American style	Margin Calculation: (75% x 4) + .50 x 100=	\$350.00		
exercise only, and must be guaranteed by the carrying broker-dealer)	Margin Requirement:	\$350.00		
Underlying at 79	SMA Debit or Margin Call:	\$350.00		
	Explanation: For an OTC option with 9 months or mo requirement is 75% of the option's intrinsic value (in-th amount by which the option's purchase price exceeds its more than 9 months to expiration, OTC options must guaranteed by the carrying broker-dealer in order to be margin requirement is 75% of the option's intrinsic value purposes when time remaining to expiration reaches 9 margin requirement is 9 margin	ne-money amount) plus 100% of the sintrinsic value. In addition to having be American style exercise and be eligible for margin. The maintenance ue. Option has no value for margin		

¹¹ SMA = "Special Memorandum Account" provided in Federal Reserve Board Regulation T Section 220.5

SHORT OPTION EXAMPLES	CALCULATION, REQUIRE	MENT AND EXPLANAT	TION
Short 1 Feb 30 call at 1/16 (Out-of-the-money) Underlying security at 17-3/8	Margin Calculation:	100 x .0625 = 20% x 100 x 17.375 = (30 - 17.375) x 100 =	\$ 6.25 347.50 (1,262.50) \$ (908.75)
	Therefore, minimum applies:	100 x .0625 = 10% x 100 x 17.375 =	\$ 6.25 <u>173.75</u> \$180.00
	Margin Requirement:		\$180.00
	SMA Debit or Margin Call.	\$180.00 - \$6.25 =	\$173.75
	ing security value less out-of-t option proceeds plus 10% of	he-money amount, if any, the underlying security val margin requirement is gre	otion proceeds plus 20% of the underly- to a minimum for calls of 100% of the ue. The minimum applies in this pater than that of the basic formula. The rement.
Short 1 Nov 120 call at 8-3/8	Margin Calculation:	100 x 8.375 =	\$ 837.50
(in-the-money) Underlying security at 128-1/2		20% x 100 x 128.50 =	2.570.00 \$3,407.50
	Margin Requirement:		\$3,407.50
	SMA Debit or Margin Call:	\$3,407.50 - \$837.50 =	\$2,570.00
			otion proceeds plus 20% of the underly- the initial margin requirement.
Short 1 Sep 80 put at 2 (out-of-the-money) Underlying security at 95	Margin Calculation:	100 x 2 = 20% x 100 x 95 = (95 - 80) x 100 =	\$ 200.00 \$ 1,900.00 \$(1,500.00) \$ 600.00
	Therefore, minimum applies:	100 x 2 = 10% x 80 x 100 =	\$ 200.00 <u>800.00</u> \$1,000.00
	Margin Requirement.		\$1,000.00
	SMA Debit or Margin Call:	\$1,000.00 - \$200.00 =	\$800.00
	ing security value less out-of-ti proceeds plus 10% of the put	he-money amount, if any, s exercise price. The minin is greater than that of the l	otion proceeds plus 20% of the underly- to a minimum <u>for puts</u> of option num applies in this example because the basic formula. The sale proceeds may be
		-	

EQUITY OPTIONS: SPREAD EXAMPLES	CALCULATION, REQUIR	REMENT AND EXPLANA	TION	
Long 1 Nov 125 call at 3-3/4 Short 1 Nov 120 call at 8-3/8	Margin Calculation:	100 x (125 - 120) =	\$500.00	
(Long expires with short) Underlying security at 128-1/2	Margin Requirement:		\$500.00	
	SMA Debit or Margin Call:	\$500.00 - (\$837.50 - \$37	(5.00) = \$37.50	
	which the long put (short ca	all) exercise price is below th	nargin requirement is the amount by ne short put (long call) exercise price. The he short option sale may be applied.	
Long 1 Nov 250 put at 3	Margin Calculation:	300.00 - 93.75 =	\$206.25	
Short 1 Nov 240 put at 15/16 (Long expires with short) Underlying security at 255	Margin Requirement:		\$206.25	
Onderlying security at 255	SMA Debit or Margin Call:	\$300.00 - \$93.75 =	\$206.25	
	the long put (short call) exe condition is not met, as in t	rcise price is below the short	gin requirement is the amount by which t put (long call) exercise price. If this xercise price exceeds the short put exercise t debit of the spread.	
Long 1 Mar 70 call at 5	Margin Calculation:	5 x 100 =	\$ 500.00	
Short 1 Jun 70 call at 8 (Long expires before short)		8 x 100 = 20% x 100 x 75 =	800.00 <u>1,500.00</u>	
Underlying security at 75			\$2,800.00	
	Margin Requirement:		\$2,800.00	
	SMA Debit or Margin Call:	\$2,800.00 - \$800.00 =	\$2,000.00	
	<i>Explanation:</i> In order to qualify for spread treatment under Exchange Rules, the long side must expire with or after the short. If not, both sides must be treated as separate positions. The proceeds from the short option sale may be applied to the initial margin requirement.			

EQUITY OPTIONS: STRADDLE/COMBINATION				
(SHORT) EXAMPLE	CALCULATION, REQUIREMENT AND EXPLANATION			
Short 1 Dec 90 call at 7 Short 1 Dec 90 put at 3-3/4 Underlying security at 92-5/8	Margin Calculation:	Call 100 x 7 = 20% x 100 x 92.625 = Put 100 x 3.75 = 20% x 100 x 92.625 = (92.625 - 90) x 100 =	\$ 700.00 1.852.50 \$2,552.50 \$ 375.00 1,852.50 (262.50) \$1,965.00	
	Margin Requirement:	\$2,552.50 + \$375.00 =	\$2,927.50	
	SMA Debit or Margin Call:	\$2,927.50 - (\$700.00 + \$375.00) =	= \$1,852.50	
	the short put or call, which	e, for the same underlying security, the ever is greater, plus the option proceed sales may be applied to the initial man	ls on the other side. The	
EQUITY OPTIONS: COVERED POSITION EXAMPLES				
Long 100 shares at 92-3/8 Short 1 Dec 90 call at 7	Margin Calculation:	50% x 100 x 92.375 =	\$4,618.75	
Short I Dec 90 can at 1	Margin Requirement:		\$4,618.75	
	SMA Debit or Margin Call:	\$4,618.75 - \$700.00 =	\$3,918.75	
	50% requirement on the ununderlying security position	uired on the call because the short ca iderlying security. For purposes of co must be valued at the lower of the co s from the short option sale may be a	mputing margin equity the long arrent market value or the call	
Short 100 shares at 255	Margin Calculation:	50% x 100 x 255 =	\$12,750.00	
Short 1 Nov 250 put at 3	Margin Requirement:		\$12,750.00	
	SMA Debit or Margin Call:	\$12,750.00 - \$300.00 =	\$12,450.00	
	sale proceeds may be applied which the exercise price of t	uired on the put; 50% requirement of d to the initial margin requirement. A he put exceeds the market price of the the purpose of determining if excess	Any amount (aggregate) by e stock must be added to the	

INDEX OPTIONS: LONG OPTION EXAMPLES	CALCULATION, REQUIR	REMENT AND EXPLANATION	
Long Options With 9 Months or Less to Expiration (Listed or OTC)			
Long 1 index Nov 430 put at 5-1/2	Margin Calculation:	5.50 x 100 =	\$550.00
(Expiring in 6 months, any style exercise) Underlying index at 433.35	Margin Requirement:		\$550.00
	SMA Debit or Margin Call:		\$550.00
	Explanation: Long options	with 9 months or less to expiration mu	ıst be paid for in full.
Long Options With More Than 9 Months to Expiration (Listed)			
Long 1 index Jun 1325 call at 16-3/4 (Expiring in 20 months, can be either	Margin Calculation:	75% x 16.75 x 100 =	\$1,256.25
American or European style exercise) Underlying at 1290	Margin Requirement:		\$1,256.25
Onderlying at 1290	SMA Debit or Margin Call:		\$1,256.25
	Explanation: Initial (maintenance) margin requirement for long listed option months until expiration is 75% of the premium (market value). Option has purposes when time remaining to expiration reaches 9 months.		
Long Options With More Than 9 Months to Expiration (OTC)			
Long 1 Jun 665 call at 11 (expiring in 12 months, American style	Margin Calculation:	(75% x 2.34) + (11 - 2.34) x 100 =	\$1,041.50
exercise only, and must be guaranteed by the carrying broker-dealer)	Margin Requirement:		\$1,041.50
Underlying at 667.34	SMA Debit or Margin Call:		\$1,041.50
	requirement is 75% of the camount by which the option more than 9 months to expand guaranteed by the carrying margin requirement is 75%	ption with 9 months or more until expetion's intrinsic value (in-the-money an's purchase price exceeds its intrinsic variation, OTC options must be Americ broker-dealer in order to be eligible for of the option's intrinsic value. Optioning to expiration reaches 9 months.	amount) plus 100% of the value. In addition to having an style exercise and be r margin. The maintenance
Long 1 Jun 665 call at 13	Margin Calculation:	(75% x 0) + (13 - 0) x 100=	\$1,300.00
(expiring in 12 months, American style exercise only, and must be guaranteed by the coursing broken dealer)	Margin Requirement:		\$1,300.00
by the carrying broker-dealer) Underlying at 663.50	SMA Debit or Margin Call:		\$1,300.00
	Explanation: For an OTC option with 9 months or more until expiration, the initial margin requirement is 75% of the option's intrinsic value (in-the-money amount) plus 100% of the amount by which the option's purchase price exceeds its intrinsic value. In addition to having more than 9 months to expiration, OTC options must be American style exercise and be guaranteed by the carrying broker-dealer in order to be eligible for margin. The maintenance margin requirement is 75% of the option's intrinsic value. Option has no value for margin purposes when time remaining to expiration reaches 9 months. In this example the OTC option is not in-the-money. OTC options that are at or out-of-the-money must be paid for in full.		

SHORT OPTION EXAMPLES		MENT AND EXPLANATIO	
Short 1 index Nov 430 call at 8-3/4	Margin Calculation:	$100 \times 8.75 =$	\$ 875.00
(In-the-money)		15% x 100 x 433.35 =	6,500.25
Underlying index at 433.35			\$7,375.25
	Margin Requirement:		\$7,375.25
	SMA Debit or Margin Call:	\$7,375.25 - \$875.00 =	\$6,500.25
			n proceeds plus 15% of the underly- y be applied to the initial margin
Short 1 index Oct 410 put at 1/8	Margin Calculation:	100 x .125 =	\$ 12.50
(Out-of-the-money)		15% x 100 x 445.35 =	6,680.25
Underlying index at 445.35		$(445.35 - 410) \times 100 =$	(3,535.00)
J 0			\$ 3,157.75
	Therefore, minimum applies:	100 x .125 =	\$ 12.50
		10% x 100 x 410 =	<u>4,100.00</u>
			\$4,112.50
	Margin Requirement:		\$4,112.50
	SMA Debit or Margin Call:	\$4,112.50 - \$12.50 =	\$4,100.00
	plus 10% of the put's exercise	price. The minimum applies i	ninimum <u>for puts</u> of option proceeds n this example because the resulting
		the initial margin requirement	. The proceeds from the short
Short 1 index Dec 430 put at 7-7/8		the initial margin requirement $100 \times 7.875 =$	t. The proceeds from the short t. \$ 787.50
(Out-of-the-money)	option sale may be applied to	the initial margin requirement 100 x 7.875 = 15% x 100 x 433.35 =	\$ 787.50 6,500.25
(Out-of-the-money)	option sale may be applied to	the initial margin requirement $100 \times 7.875 =$	\$ 787.50 6,500.25 (335.00)
(Out-of-the-money)	option sale may be applied to	the initial margin requirement 100 x 7.875 = 15% x 100 x 433.35 =	\$ 787.50 6,500.25
(Out-of-the-money)	option sale may be applied to	the initial margin requirement 100 x 7.875 = 15% x 100 x 433.35 =	\$ 787.50 6,500.25 (335.00)
(Out-of-the-money)	option sale may be applied to Margin Calculation:	the initial margin requirement 100 x 7.875 = 15% x 100 x 433.35 =	\$ 787.50 6,500.25 (335.00) \$6,952.75
(Out-of-the-money)	option sale may be applied to Margin Calculation: Margin Requirement: SMA Debit or Margin Call:	the initial margin requirement 100 x 7.875 = 15% x 100 x 433.35 = (433.35 - 430) x 100 = \$6,952.75 - \$787.50 =	\$ 787.50 6,500.25 (335.00) \$6,952.75 \$6,952.75
(Out-of-the-money)	option sale may be applied to Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: The margin requ	the initial margin requirement 100 x 7.875 = 15% x 100 x 433.35 = (433.35 - 430) x 100 = \$6,952.75 - \$787.50 = nirement is 100% of the option	\$ 787.50 6,500.25 (335.00) \$6,952.75
(Out-of-the-money)	option sale may be applied to Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: The margin require in gindex value less out-of-the	the initial margin requirement $100 \times 7.875 = 15\% \times 100 \times 433.35 = (433.35 - 430) \times 100 = $ $\$6,952.75 - \$787.50 = $ the initial margin requirement is 100% of the option the initial and initial ini	\$ 787.50 6,500.25 (335.00) \$6,952.75 \$6,952.75 \$6,165.25 In proceeds plus 15% of the underly-
	option sale may be applied to Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: The margin requing index value less out-of-the plus 10% of the put's exercise be a lesser requirement (\$787	the initial margin requirement 100 x 7.875 = 15% x 100 x 433.35 = (433.35 - 430) x 100 = \$6,952.75 - \$787.50 = airement is 100% of the option e-money amount, if any, to a more price. The minimum does not as 100 + \$4,300.00 = \$5,087.50)	S 787.50 6,500.25 (335.00) \$6,952.75 \$6,952.75 \$6,165.25 In proceeds plus 15% of the underly-ninimum for puts of option proceeds apply because the minimum would. The proceeds from the short
(Out-of-the-money)	option sale may be applied to Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: The margin requing index value less out-of-the plus 10% of the put's exercise be a lesser requirement (\$787	the initial margin requirement 100 x 7.875 = 15% x 100 x 433.35 = (433.35 - 430) x 100 = \$6,952.75 - \$787.50 = airement is 100% of the option e-money amount, if any, to a morice. The minimum does not apprice.	S 787.50 6,500.25 (335.00) \$6,952.75 \$6,952.75 \$6,165.25 In proceeds plus 15% of the underly-ninimum for puts of option proceeds apply because the minimum would. The proceeds from the short
(Out-of-the-money)	option sale may be applied to Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: The margin requing index value less out-of-the plus 10% of the put's exercise be a lesser requirement (\$787	the initial margin requirement 100 x 7.875 = 15% x 100 x 433.35 = (433.35 - 430) x 100 = \$6,952.75 - \$787.50 = airement is 100% of the option e-money amount, if any, to a more price. The minimum does not as 100 + \$4,300.00 = \$5,087.50)	S 787.50 6,500.25 (335.00) \$6,952.75 \$6,952.75 \$6,165.25 In proceeds plus 15% of the underly-ninimum for puts of option proceeds apply because the minimum would. The proceeds from the short
(Out-of-the-money)	option sale may be applied to Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: The margin requing index value less out-of-the plus 10% of the put's exercise be a lesser requirement (\$787	the initial margin requirement 100 x 7.875 = 15% x 100 x 433.35 = (433.35 - 430) x 100 = \$6,952.75 - \$787.50 = airement is 100% of the option e-money amount, if any, to a more price. The minimum does not as 100 + \$4,300.00 = \$5,087.50)	S 787.50 6,500.25 (335.00) \$6,952.75 \$6,952.75 \$6,165.25 In proceeds plus 15% of the underly-ninimum for puts of option proceeds apply because the minimum would. The proceeds from the short
(Out-of-the-money)	option sale may be applied to Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: The margin requing index value less out-of-the plus 10% of the put's exercise be a lesser requirement (\$787	the initial margin requirement 100 x 7.875 = 15% x 100 x 433.35 = (433.35 - 430) x 100 = \$6,952.75 - \$787.50 = airement is 100% of the option e-money amount, if any, to a more price. The minimum does not as 100 + \$4,300.00 = \$5,087.50)	S 787.50 6,500.25 (335.00) \$6,952.75 \$6,952.75 \$6,165.25 In proceeds plus 15% of the underly-ninimum for puts of option proceeds apply because the minimum would. The proceeds from the short
(Out-of-the-money)	option sale may be applied to Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: The margin requing index value less out-of-the plus 10% of the put's exercise be a lesser requirement (\$787	the initial margin requirement 100 x 7.875 = 15% x 100 x 433.35 = (433.35 - 430) x 100 = \$6,952.75 - \$787.50 = airement is 100% of the option e-money amount, if any, to a more price. The minimum does not as 100 + \$4,300.00 = \$5,087.50)	S 787.50 6,500.25 (335.00) \$6,952.75 \$6,952.75 \$6,165.25 In proceeds plus 15% of the underly-ninimum for puts of option proceeds apply because the minimum would. The proceeds from the short

INDEX OPTIONS: SPREAD EXAMPLES	CALCULATION, REQUIR	EMENT AND EXPLANATION	
Long 1 index Dec 425 put at 6-3/8	Margin Calculation:	100 x (430 - 425) =	\$500.00
Short 1 index Dec 430 put at 7-7/8 (Long expires with short)	Margin Requirement:		\$500.00
Underlying index at 433.35	SMA Debit or Margin Call:	\$500.00 - (\$787.50 - \$637.50) =	\$350.00
	long put (short call) exercise	nderlying index, the margin requirem price is below the short put (long cal e proceeds from the short option sale	l) exercise price. The long side
Long 1 index Dec 425 call at 15-1/4 Short 1 index Nov 430 call at 8-3/4	Margin Calculation:	\$1,525.00 - \$875.00 =	\$650.00
(Long expires after short) Underlying index at 433.35	Margin Requirement:		\$650.00
Chachying mack at 100.00	SMA Debit or Margin Call:		\$650.00
	short call (long put) exercise condition is not met, as in t	nderlying index, the margin requirem e price is below the long call (short pu his example (short call exercise price e o fully pay for the net debit of the spre	t) exercise price. If this xceeds long call exercise price),
Long 1 index Nov 425 call at 13-1/8	Margin Calculation:	13.125 x 100 =	\$1,312.50
Short 1 index Dec 430 call at 12-1/4		12.25 x 100 =	1,225.00
(Long expires before short)		15% x 100 x 433.35 =	6,500.25
Underlying index at 433.35			\$9,037.75
	Margin Requirement:		\$9,037.75
	SMA Debit or Margin Call:	\$9,037.75 - \$1,225.00 =	\$7,812.75
	expire with or after the shor	nlify for spread treatment under Excha t. If not, both sides must be treated a ion sale may be applied to the initial r	s separate positions. The
INDEX OPTIONS: STRADDLE/COMBINATION (SHORT) EXAMPLE			
Short 1 index Nov 435 put at 7-1/4	Margin Calculation:	<u>Put</u>	
Short 1 index Nov 435 call at 5-1/2		$100 \times 7.25 =$	\$ 725.00
Underlying index at 433.35		15% x 100 x 433.35=	6.500.25 \$7,225.25
		<u>Call</u>	
		$100 \times 5.50 =$	\$ 550.00
		15% x 100 x 433.35=	6,500.25
		(435 - 433.35) x 100=	(165.00)
			\$6,885.25
	Margin Requirement:	\$7,225.25 + \$550.00 =	\$7,775.25
	SMA Debit or Margin Call:	\$7,775.25 - (\$550.00 + \$725.00) =	\$6,500.25
	requirement on the short pu	nderlying index with the same index a at or call, whichever is greater, plus the th short option sales may be applied t	e option proceeds on the other

REDUCED-VALUE INDEX OPTIONS:			
LONG OPTION EXAMPLE	CALCULATION, REQUIR	EMENT AND EXPLANATION	
Long Options With More Than 9 Months to Expiration (Listed)			
Long 1 reduced-value index Dec 42.5 put at 2	Margin Calculation:	100 x 2 x 75% =	\$150.00
(expiring in 2 years)	Margin Requirement:		\$150.00
	SMA Debit or Margin Call:		\$150.00
	months until expiration is 7	nance) margin requirement for long 5% of the premium (market value) ing to expiration reaches 9 months.	
REDUCED-VALUE INDEX OPTIONS: SHORT OPTION EXAMPLES			
Short 1 reduced-value index	Margin Calculation:	100 x 2.875 =	\$287.50
Dec 45 put at 2-7/8 (In-the-money, expiring in 2 years)		15% x 100 x 43.34 =	<u>650.10</u> \$937.60
Underlying index at 43.34	Margin Requirement.		\$937.60
	SMA Debit or Margin Call:	\$937.60 - \$287.50 =	\$650.10
		quirement is 100% of the option pr ls from the short option sale may b	
Short 1 reduced-value index	Margin Calculation:	100 x 1.375 =	\$137.50
Dec 45 call at 1-3/8 (Out-of-the-money,		15% x 100 x 43.34 = (45 - 43.34) x 100 =	650.10 (166.00)
expiring in 18 months)		(40 - 40.04) X 100 -	\$621.60
Underlying index at 43.34	Margin Requirement:		\$621.60
	SMA Debit or Margin Call:	\$621.60 - \$137.50 =	\$484.10
	ing index value less out-of-th option proceeds plus 10% o minimum would be a lesser	quirement is 100% of the option prine-money amount, if any, to a minification of the index value. The minimum description of the index value of the index value of the index value of the initial margin requirement (\$137.50 + \$433.40 = 100 applied to the initial margin requirement.	mum for calls of 100% of the loes not apply because the = \$570.90). The proceeds from

REDUCED-VALUE INDEX OPTIONS: SPREAD EXAMPLES	CALCULATION DECLIS	REMENT AND EXPLANATION	
			\$250.00
Long 1 reduced-value index Dec 42.5 put at 2	Margin Calculation:	$100 \times (45 - 42.5) =$	
Short 1 reduced-value index Dec 45 put at 2-7/8	Margin Requirement:		\$250.00
(Long expires with short	SMA Debit or Margin Call:	\$250.00 - (\$287.50 - \$200.00) =	= \$162.50
in 18 months) Underlying index at 43.34	long put (short call) exercise		rement is the amount by which the call) exercise price. The long side sale may be applied.
Long 10 reduced-value index Dec 45 calls at 1-3/8	Margin Calculation:	\$1,375.00 - \$25.00 =	\$1,350.00
Short 1 index Sep 450 call at 1/4	Margin Requirement:		\$1,350.00
(Long expiring in 18 months, short expiring in 3 months)	SMA Debit or Margin Call:		\$1,350.00
Underlying index at 43.34	(e.g., 10 SPX LEAPS = 1 SI for spreads. The margin rec price is below the long call (underlying index covering the same PX), reduced value index contracts quirement is the amount by which (short put) exercise price. If this coprice equals long call exercise price of the spread.	may offset regular index contracts the short call (long put) exercise ondition is not met, as in this
Long 1 index Sep 430 put at 7-7/8	Margin Calculation:	7.875 x 100 x 1 =	\$ 787.50
Short 10 reduced-value index		2 x 100 x 10 = 15% x 100 x 43.34 x 10 =	2,000.00 6,501.00
Dec 42.5 puts at 2		$(43.34 - 42.5) \times 100 \times 10 =$	<u>(840.00)</u>
(Long expiring in 5 months, short expiring in 18 months)			\$8,448.50
Underlying index at 43.34	Margin Requirement:		\$8,448.50
	SMA Debit or Margin Call:	\$8,448.50 - \$2,000.00 =	\$6,448.50
	(e.g., 10 SPX LEAPS = 1 SI for spreads. However, in or side must expire with or aft	underlying index covering the same PX), reduced value index contracts der to qualify for spread treatment er the short. If not, both sides must option sale may be applied to the	may offset regular index contracts under Exchange Rules, the long st be treated as separate positions.

REDUCED-VALUE INDEX
OPTIONS:
STRADDLE/COMBINATION
(SHORT) EXAMPLE

CALCULATION, REQUIREMENT AND EXPLANATION

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Short 1 reduced-value index Dec 45 put at 2-7/8 Short 1 reduced-value index Dec 45 call at 1-3/8 Underlying index at 43.34	Margin Calculation:	Put 100 x 2.875 = 15% x 100 x 43.34 = Call 100 x 1.375 = 15% x 100 x 43.34 =	\$287.50 650.10 \$937.60 \$ 137.50 650.10
		(45 - 43.34) x 100 =	(166.00) \$621.60
	Margin Requirement:	\$937.60 + \$137.50 =	\$1,075.10
	SMA Debit or Margin Call:	\$1,075.10 - (\$287.50 + \$137.50)	= \$650.10

Explanation: For the same underlying index with the same index multiplier, the margin is the requirement on the short put or call, whichever is greater, plus the option proceeds on the other side. The proceeds from both short option sales may be applied to the initial margin requirement. Additionally, for the same underlying index covering the same total aggregate underlying value (e.g., 10 SPX LEAPS = 1 SPX), reduced value index contracts may offset a regular index contract for straddles.

CAPS OPTIONS: LONG OPTION EXAMPLE	CALCULATION, REQUIR	EMENT AND EXPLANATI	ON
Long 1 CAPS Feb 360 (390 cap)	Margin Calculation:	15.75 x 100 =	\$1,575.00
call at 15-3/4	Margin Requirement:		\$1,575.00
	SMA Debit or Margin Call:		\$1,575.00
	Explanation: Long CAPS op	otions must be paid for in full.	
CAPS OPTIONS: SHORT OPTION EXAMPLE			
Short 1 CAPS Feb 380 (410 cap) call at 1-3/4	Margin Calculation:	a) (410 - 380) x 100 =	\$3,000.00
Underlying index at 370		b) 100 x 1.75 =	\$ 175.00
		$15\% \times 100 \times 370 =$	5,550.00
		$(380 - 370) \times 100 =$	(1,000.00)
			\$4,725.00
	Margin Requirement:		\$3,000.00
	SMA Debit or Margin Call:	\$3,000.00 - \$175.00 =	\$2,825.00
	,,,,,	minimum of 100% of the opt	
CAPS OPTIONS:			may be applied to the initial margin
CAPS OPTIONS: SPREAD EXAMPLES	ing index value. The proceed requirement.	ds from the short option sale	may be applied to the initial margin
	ing index value. The proceed requirement. Spread treatment is permitted index options offset by short	eds from the short option sale	may be applied to the initial margin APS or spreads comprised of long regular gindex. Spread treatment is not
SPREAD EXAMPLES Long 1 CAPS Feb 380 call at 1-3/4	ing index value. The proceed requirement. Spread treatment is permitted index options offset by short	eds from the short option sale ed for spreads comprised of CA CAPS on the same underlying	may be applied to the initial margin APS or spreads comprised of long regular gindex. Spread treatment is not
Long 1 CAPS Feb 380 call at 1-3/4 Short 1 CAPS Feb 360 call at 15-3/4 (Long expires with short)	ing index value. The proceed requirement. Spread treatment is permitted index options offset by short permitted for long CAPS of the short permitted for long capacity and the short permitted for long	eds from the short option sale ed for spreads comprised of CA CAPS on the same underlying feet by short regular index opti	may be applied to the initial margin APS or spreads comprised of long regular g index. Spread treatment is not ons.
Long 1 CAPS Feb 380 call at 1-3/4 Short 1 CAPS Feb 360 call at 15-3/4	ing index value. The proceed requirement. Spread treatment is permitte index options offset by short permitted for long CAPS of Margin Calculation: Margin Requirement:	eds from the short option sale ed for spreads comprised of CA CAPS on the same underlying feet by short regular index opti	MPS or spreads comprised of long regular gindex. Spread treatment is not ons. \$2,000.00
Long 1 CAPS Feb 380 call at 1-3/4 Short 1 CAPS Feb 360 call at 15-3/4 (Long expires with short)	ing index value. The proceed requirement. Spread treatment is permitte index options offset by short permitted for long CAPS of Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: For the same ushort call (long put) exercises	ed for spreads comprised of CACAPS on the same underlying (380 - 360) x 100 = \$2,000.00 - (\$1,575.00 - \$1 anderlying index, the margin re	APS or spreads comprised of long regular gindex. Spread treatment is not ons. \$2,000.00 \$2,000.00 \$75.00) = \$600.00 equirement is the amount by which the hort put) exercise price. The proceeds
Long 1 CAPS Feb 380 call at 1-3/4 Short 1 CAPS Feb 360 call at 15-3/4 (Long expires with short) Underlying index at 370 Long 1 CAPS Mar 360 call at 15-3/4	ing index value. The proceed requirement. Spread treatment is permitte index options offset by short permitted for long CAPS of Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: For the same ushort call (long put) exercises	ed for spreads comprised of CACAPS on the same underlying (380 - 360) x 100 = \$2,000.00 - (\$1,575.00 - \$1) Inderlying index, the margin reprice is below the long call (so hay be applied to the initial margin by the company of the	MPS or spreads comprised of long regular gindex. Spread treatment is not sons. \$2,000.00 \$2,000.00 \$2,000.00 equirement is the amount by which the hort put) exercise price. The proceeds argin requirement. \$1,575.00
Long 1 CAPS Feb 380 call at 1-3/4 Short 1 CAPS Feb 360 call at 15-3/4 (Long expires with short) Underlying index at 370 Long 1 CAPS Mar 360 call at 15-3/4 Short 1 Mar 370 call at 4-3/8	ing index value. The proceed requirement. Spread treatment is permitte index options offset by short permitted for long CAPS of Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: For the same us short call (long put) exercise from the short option sale in	ed for spreads comprised of CACAPS on the same underlying (380 - 360) x 100 = \$2,000.00 - (\$1,575.00 - \$1 anderlying index, the margin reprice is below the long call (so hay be applied to the initial margin by the company of the c	APS or spreads comprised of long regular gindex. Spread treatment is not ons. \$2,000.00 \$2,000.00 \$2,000.00 equirement is the amount by which the hort put) exercise price. The proceeds argin requirement. \$1,575.00 437.50
Long 1 CAPS Feb 380 call at 1-3/4 Short 1 CAPS Feb 360 call at 15-3/4 (Long expires with short) Underlying index at 370 Long 1 CAPS Mar 360 call at 15-3/4	ing index value. The proceed requirement. Spread treatment is permitte index options offset by short permitted for long CAPS of Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: For the same us short call (long put) exercise from the short option sale in	ed for spreads comprised of CACAPS on the same underlying (380 - 360) x 100 = \$2,000.00 - (\$1,575.00 - \$1) Inderlying index, the margin reprice is below the long call (so hay be applied to the initial margin by the company of the	MPS or spreads comprised of long regular gindex. Spread treatment is not sons. \$2,000.00 \$2,000.00 \$2,000.00 equirement is the amount by which the hort put) exercise price. The proceeds argin requirement. \$1,575.00
Long 1 CAPS Feb 380 call at 1-3/4 Short 1 CAPS Feb 360 call at 15-3/4 (Long expires with short) Underlying index at 370 Long 1 CAPS Mar 360 call at 15-3/4 Short 1 Mar 370 call at 4-3/8 (Long expires with short)	ing index value. The proceed requirement. Spread treatment is permitte index options offset by short permitted for long CAPS of Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: For the same us short call (long put) exercise from the short option sale in	ed for spreads comprised of CACAPS on the same underlying (380 - 360) x 100 = \$2,000.00 - (\$1,575.00 - \$1 anderlying index, the margin reprice is below the long call (so hay be applied to the initial margin by the company of the c	APS or spreads comprised of long regular gindex. Spread treatment is not ons. \$2,000.00 \$2,000.00 \$2,000.00 equirement is the amount by which the hort put) exercise price. The proceeds argin requirement. \$1,575.00 437.50 5,550.00
Long 1 CAPS Feb 380 call at 1-3/4 Short 1 CAPS Feb 360 call at 15-3/4 (Long expires with short) Underlying index at 370 Long 1 CAPS Mar 360 call at 15-3/4 Short 1 Mar 370 call at 4-3/8 (Long expires with short)	ing index value. The proceed requirement. Spread treatment is permitte index options offset by short permitted for long CAPS of Margin Calculation: Margin Requirement: SMA Debit or Margin Call: Explanation: For the same us short call (long put) exercise from the short option sale in Margin Calculation:	ed for spreads comprised of CACAPS on the same underlying (380 - 360) x 100 = \$2,000.00 - (\$1,575.00 - \$1) Inderlying index, the margin reprice is below the long call (so hay be applied to the initial margin by the company of the	APS or spreads comprised of long regular gindex. Spread treatment is not sons. \$2,000.00 \$2,000.00 \$2,000.00 equirement is the amount by which the hort put) exercise price. The proceeds argin requirement. \$1,575.00 437.50 5,550.00 \$7,562.50

CAPS OPTIONS: STRADDLE/COMBINATION (SHORT) EXAMPLE	CALCULATION, REQ	UIREMENT AND EXPLANATIO	N
	and regular index option leg of a CAPS straddle i.		owever, it should be noted that if one nust be closed or margined as a naked
Short 1 CAP Feb 380 (410 cap) call at 1-3/4	Margin Calculation:	<u>Call</u> a) (410 - 380) x 100 =	3,000.00
Short 1 CAP Feb 380 (350 cap) put at 12-3/8 Underlying index at 370		b) 100 x 1.75 = 15% x 100 x 370 = (380 - 370) x 100 =	\$ 175.00 5,550.00 (1.000.00) \$4,725.00
		<u>Put</u> a) (380 - 350) x 100 =	\$3,000.00
		b) 100 x 12.375 = 15% x 100 x 370 =	\$1,237.50 <u>5.550.00</u> \$6,787.50
	Margin Requirement:	\$3,000.00 + \$175.00 =	\$3,175.00
	SMA Debit or Margin C	Call: \$3,175.00 - (\$175.00 + \$1,23	37.50) = \$1,762.50
	the requirement on the	ne underlying index with the same i short put or call, whichever is greate s from both short option sales may	er, plus the option proceeds on the

requirement.

ong 1 IRX Oct 50 put at 7/8	Margin Calculation:	100 x .875 =	\$87.50
RX at 48.90	Margin Requirement:		\$87.50
	SMA Debit or Margin Call:		\$87.50
		ate options must be paid for in	
NTEREST RATE OPTIONS: SHORT OPTION EXAMPLE			
hort 1 TYX Oct 70 call at 9-3/8 (n-the-money) YX at 78.53	Margin Calculation:	100 x 9.375 = 10% x 100 x 78.53 =	\$ 937.50 <u>785.30</u> \$1,722.80
	Margin Requirement:		\$1,722.80
	SMA Debit or Margin Call:	\$1,722.80 - \$937.50 =	\$785.30
	ing value, less out-of-the-mo	oney amount, if any, to a minir	on proceeds plus 10% of the underly mum for calls of option proceeds plu option sale may be applied to the
Short 1 IRX Oct 50 call at 7/8 (Out-of-the-money) IRX at 48.90	Margin Calculation:	100 x .875 = 10% x 100 x 48.90 = (50 - 48.90) x 100 =	\$ 87.50 489.00 (110.00) \$466.50
	Margin Requirement:		\$466.50
	SMA Debit or Margin Call:	\$466.50 - \$87.50 =	\$379.00
	ing value less out-of-the-mo 5% of the underlying value.	ney amount, if any, to a minin The minimum does not apply + \$244.50 = \$332.00). The pro	on proceeds plus 10% of the underly num for calls of option proceeds plu y because the minimum would be a oceeds from the short option sale ma

SPREAD EXAMPLES	CALCULATION, REQU	JIREMENT AND EXPLANATIO)N	
		In order to qualify for spread treatment, both the long and the short options must have the same underlying and the long side must expire with or after the short side.		
Long 1 TYX Nov 70 call at 9-3/8 Short 1 TYX Nov 80 call at 1-1/2	Margin Calculation:	\$937.50 - \$150.00 =	\$787.50	
(Long expires with short) TYX at 78.53	Margin Requirement:		\$787.50	
11A at 70.00	SMA Debit or Margin Ca	all:	\$787.50	
	call (long put) exercise pr not met, as in this examp			
Long 1 FVX Nov 70 put at 7/8	Margin Calculation:	100 x (72.5 - 70) =	\$ 250.00	
Short 1 FVX Nov 72.5 put at 1-1/2 (Long expires with short) FVX at 72.69	Margin Requirement:		\$250.00	
FVA at 12.03	SMA Debit or Margin Ca	all: \$250.00 - (\$150.00 - \$87.50)) = \$187.50	
	put (short call) exercise p	<i>Explanation:</i> For the same underlying, the margin requirement is the amount by which the long put (short call) exercise price is below the short put (long call) exercise price. The long side must be paid for in full. The proceeds from the short option sale may be applied.		
INTEREST RATE OPTIONS: STRADDLE/COMBINATION (SHORT) EXAMPLE				
		for long straddle/combination pos must have the same underlying for		
Short 1 TYX Nov 77.5 call	Margin Calculation:	<u>Call</u>		
at 1-7/8		$\overline{100}$ x 1.875 =	\$187.50	
Short 1 TYX Dec 80 put		10% x 100 x 78.53 =	785.30	
at 3-3/8			\$972.80	
TYX at 78.53		<u>Put</u>		
		$100 \times 3.375 =$	\$ 337.50	
		10% x 100 x 78.53 =	<u>785.30</u> \$1,122.80	
			\$1,122.00	
	Margin Requirement:	\$1,122.80 + \$187.50 =	\$1,310.30	
	SMA Debit or Margin Call: \$1,310.30 - (\$187.50 + \$337.50) = \$785.30			
	whichever is greater, plus		quirement on the short put or call, other option. The proceeds from both irement.	
	1			

CALCULATION, REQUIREMENT AND EXPLANATION

Exchange Rule 12.3(d) permits short puts to be written in a cash account provided the customer deposits cash or cash equivalents, the market value of which equals the aggregate strike price of the options, or an escrow agreement. Cash equivalents must meet the Regulation T definition of cash equivalent. Regulation T defines cash equivalent to mean securities issued or guaranteed by the United States or its agencies, negotiable bank certificates of deposit, banker's acceptances issued by banking institutions in the United States and payable in the United States, or money market mutual funds. To date no "covered" provisions exist for short interest rate option calls written in a cash account. In many instances, institutional entities are not barred from trading these instruments on a margin basis, provided that the options serve to offset the risk exposure of the other interest rate investments. Contact the Exchange's Department of Financial and Sales Practice Compliance at (312) 786-7718 for more detailed information.

Note: Bond prices fall when interest rates rise. Due to the inverse relationship between the direction of interest rates and the price of bonds, puts (not calls) would be written against Treasury securities to accomplish the investment objectives of income enhancement and cushioning downside risk. Conversely, long calls could hedge long positions in Treasury securities. Refer to the Chicago Board Options Exchange's web site at www.cboe.com for more information.

balance minus the loan value equals the amount of the SMA debit or margin call, or \$450.00. All components have the same expiration. The long call and short put have the same exercise price, and the long put and short call have the same exercise price.

Cash Account. Permitted only with European style, cash settled index options. The requirement is to pay for the net debit in full.

LONG BOX SPREAD (NO LOAN VALUE) EXAMPLE (can be composed of either American or European style exercise options)	CALCULATION, REQUIR	EMENT AND EXPLANATIO	DN
Long 1 Sep 40 call at 15-3/8 Short 1 Sep 50 call at 7-1/4 Long 1 Sep 50 put at 1-3/4 Short 1 Sep 40 put at 3/8 Underlying at 50	Margin Calculation:	Calls 15.375 x 100 = 7.25 x 100 = Puts 1.75 x 100 = 375 x 100 =	\$(1,537.50) 725.00 (175.00) _37.50 \$ (950.00)
	Margin Requirement:		\$950.00
	SMA Debit or Margin Call:		\$950.00
	same expiration. The long of short call have the same exer	call and short put have the same rcise price. only with European style, cash s	debit in full. All components have the e exercise price, and the long put and ettled index options. The requirement
SHORT BOX SPREAD EXAMPLES			
Short 1 Nov 535 call at 19-3/8 Long 1 Nov 545 call at 12-1/4 Short 1 Nov 545 put at 5-3/8 Long 1 Nov 535 put at 3 Underlying at 550	Margin Calculation:	(545 - 535) x 100 = Calls 19.375 x 100 = 12.25 x 100 = Puts 5.375 x 100 = 3 x 100 =	\$1,000.00 \$ 1,937.50 (1,225.00) 537.50 (300.00) \$ 950.00
	Margin Requirement:		\$1,000.00
	SMA Debit or Margin Call:		\$50.00
	in the exercise prices. The rack All positions must have the exercise price; and the long to Cash Account. Permitted of	net credit received may be applisame expiration; the long call a put and short call must have the only with European style, cash s	e margin requirement is the difference ed to the initial margin requirement. and short put must have the same are same exercise price. The requirement is the twith cash or cash equivalents.

SHORT BOX SPREAD EXAMPLES	CALCULATION, REQUI	REMENT AND EXPLANATION	NC
Short 1 Nov 50 call at 17-1/4 Long 1 Nov 60 call at 8-1/4 Short 1 Nov 60 put at 1-1/4 Long 1 Nov 50 put at 3/8 Underlying at 66	Margin Calculation:	(60 - 50) x 100 = Calls 17.25 x 100 = 8.25 x 100 = Puts 1.25 x 100 = .375 x 100 =	\$1,000.00 \$1,725.00 (825.00) 125.00 (37.50) \$ 987.50
	in the exercise prices. The All positions must have the exercise price; and the long Cash Account. Permitted	represents the sale of a box. The credit received may be applisame expiration; the long call a put and short call must have the conly with European style, cash-	\$1,000.00 \$12.50 The margin requirement is the difference ied to the initial margin requirement. and short put must have the same he same exercise price. Settled options. The requirement is the et with cash or cash equivalents.
Short 1 Nov 60 call at 8-1/4 Long 1 Nov 65 call at 5 Short 1 Nov 65 put at 2-1/2 Long 1 Nov 60 put at 1 Underlying at \$88	Margin Calculation:	(65 - 60) x 100 = <u>Calls</u> 8.25 x 100 = 5 x 100 = <u>Puts</u> 2.50 x 100 = 1 x 100 =	\$500.00 \$ 825.00 (500.00) 250.00 (100.00) \$ 475.00

SMA Debit or Margin Call: \$500.00 - \$475.00 =

Margin Requirement:

Explanation: This example represents the sale of a box. The margin requirement is the difference in the exercise prices. The net credit received may be applied to the initial margin requirement. All positions must have the same expiration; the long call and short put must have the same exercise price; and the long put and short call must have the same exercise price.

\$500.00

\$25.00

Cash Account. Permitted only with European style, cash-settled options. The requirement is the same (the difference in the exercise prices) and must be met with cash or cash equivalents.

LONG BUTTERFLY SPREAD (CALLS) EXAMPLE	CALCULATION, REQUIR	EMENT AND EXPLANAT	TION
Long 1 Nov 545 call at 12-1/4 Short 2 Nov 550 calls at 8-3/4 Long 1 Nov 555 call at 6 Underlying at 550	Margin Calculation:	12.25 x 100 = 8.75 x 100 x 2 = 6 x 100 =	\$(1,225.00) 1,750.00 (<u>600.00)</u> \$ (75.00)
	Margin Requirement:		\$75.00
	SMA Debit or Margin Call:		\$75.00
		quirement is to pay for the n d the intervals between exerc	et debit in full provided all positions cise prices are equal.
	Cash Account. Permitted o same, pay for debit in full.	nly with European style cash	a settled options. The requirement is th
SHORT BUTTERFLY SPREAD (CALLS) EXAMPLE			
Short 1 Nov 545 call at 12-1/4 Long 2 Nov 550 calls at 8-3/4 Short 1 Nov 555 call at 6 Underlying at 550	Margin Calculation:	12.25 x 100 = (8.75 x 100) x 2 = 6 x 100 =	\$ 1,225.00 (1,750.00) <u>600.00</u> \$ 75.00
		(550 - 545) x 100 =	\$500.00
	Margin Requirement:		\$500.00
	SMA Debit or Margin Call:	\$500.00 - \$75.00 =	\$425.00
	prices. The net credit receiv must have the same expirati	ed may be applied to the ini on and the intervals between nly with European style cash	etween the middle and lowest exercise tial margin requirement. All positions a exercise prices must be equal. a settled options. The requirement is th

LONG BUTTERFLY SPREAD (PUTS) EXAMPLE	CALCULATION, REQU	IREMENT AND EXPLANAT	TION
Long 1 Nov 555 put at 9-1/2 Short 2 Nov 550 puts at 7-1/8 Long 1 Nov 545 put at 5-3/8 Underlying at 550	Margin Calculation:	9.50 x 100 = (7.125 x 100) x 2 = 5.375 x 100 =	\$(950.00) 1,425.00 (537.50) \$ (62.50)
	Margin Requirement:		\$62.50
	SMA Debit or Margin Ca	<i>II:</i>	\$62.50
		requirement is to pay for the no and the intervals between exerc	et debit in full provided all positions ise prices are equal.
	Cash Account. Permitted same; pay for debit in full		n settled options. The requirement is the
SHORT BUTTERFLY SPREAD (PUTS) EXAMPLE			
Short 1 Nov 555 put at 9-1/2 Long 2 Nov 550 puts at 7-1/8 Short 1 Nov 545 put at 5-3/8 Underlying at 550	Margin Calculation:	9.50 x 100 = (7.125 x 100) x 2 = 5.375 x 100 =	\$ 950.00 (1,425.00) 537.50 \$ 62.50
		(555 - 550) x 100 =	\$500.00
	Margin Requirement:		\$500.00
	SMA Debit or Margin Ca	<i>II:</i> \$500.00 - \$62.50 =	\$437.50
	<i>Explanation:</i> The margin requirement is the difference between the highest and middle exercise prices. The net credit received may be applied to the initial margin requirement. All positions must have the same expiration and the intervals between exercise prices must be equal.		
	Cash Account. Permitted same and must be held in		n settled options. The requirement is the

MAINTENANCE MARGIN FOR HEDGED UNDERLYING POSITIONS EXAMPLES	CALCULATION, REQUIREMENT AND EXPLANATION
	When <u>initially</u> established, an underlying security must be margined in accordance with Regulation T, regardless of any option hedge strategy that may be employed.
	The following examples illustrate the Exchange's <u>maintenance</u> margin requirements on the <u>underlying security component of hedge strategies recognized by Exchange rules.</u> Options must be American style. The long option component must be paid for in full and is not marginable.
MAINTENANCE MARGIN FOR HEDGED UNDERLYING POSITIONS: LONG UNDERLYING/LONG PUT EXAMPLE	
Long 100 XYZ at 103-1/2 Long 1 XYZ Nov 95 put	Maintenance Margin Calculation: XYZ a) [(10% x 95) + (103.50 - 95)] x 100 = \$1,800.00 b) 25% x 103.50 x 100 = \$2,587.50
	Maintenance Margin Requirement: \$1,800.00
	Explanation: The maintenance margin requirement on a long position in an underlying instrument hedged with a long put is the lower of 1) 10% of the put exercise price plus 100% of any out-of-the-money amount, or 2) 25% of the market value of the underlying.
MAINTENANCE MARGIN FOR HEDGED UNDERLYING POSITIONS: SHORT UNDERLYING/LONG CALL EXAMPLE	
Short 100 XYZ at 46 Long 1 XYZ Dec 50 call	Maintenance Margin Calculation: XYZ a) [(10% x 50) + (50 - 46)] x 100 = \$ 900.00 b) (30% x 46 x 100) = \$ 1,380.00 Maintenance Margin Requirement: \$900.00 Explanation: The maintenance margin requirement on a short position in an underlying instrument hedged with a long call is the lower of 1) 10% of the call exercise price plus 100% of any out-of-the-money amount, or 2) the normal Exchange maintenance margin requirement (in this example, 30% of the market value of the underlying). 12

 $[\]frac{}{^{12}}$ In addition, 100% of the short security current market value must be maintained at all times.

MAINTENANCE MARGIN FOR HEDGED UNDERLYING POSITIONS: CONVERSION EXAMPLE

CALCULATION, REQUIREMENT AND EXPLANATION

Long 100 XYZ at 115 Short 1 May 110 call at 6-1/2 Long 1 May 110 put at 1-3/8 Maintenance Margin Calculation:

XYZ

 $10\% \times 110 \times 100 = \$1,100.00$

Maintenance Margin Requirement:

\$1,100.00

Explanation: This example represents a long security position offset by a synthetic short security position (long put / short call). Option positions provide a minimum selling price for the long security position equal to the exercise price. The maintenance margin requirement on the stock component of a conversion is 10% of the exercise price. Both options must have the same exercise price and time of expiration. For margin purposes, the stock must be valued at the lower of current market value or the call exercise price. In this example, the underlying security would be valued at the call exercise price.

If the Conversion in the above example is established at the given prices, the <u>initial</u> margin required would be computed as follows:

Conversions (Initial Margin)

Long 100 XYZ at 115 Short 1 May 110 call at 6-1/2 Long 1 May 110 put at 1-3/8

Initial Margin Calculation: Long Stock: 50% x 115 x 100 = \$5,750.00

Covered Call: 0.00 Long Put: 1.375 x 100 = 137.50 \$5,887.50

<u>Initial</u> Margin Requirement: \$5,887.50

SMA Debit or Margin Call: \$5,887.50 - \$650.00 = \$5,237.50

Explanation: This example represents a long security position offset by a synthetic short security position. For initial margin purposes, the stock component of a conversion must be treated as any other margin purchase. The option components must be treated as a long put and covered call.

MAINTENANCE MARGIN FOR HEDGED UNDERLYING POSITIONS: REVERSE CONVERSION EXAMPLE	CALCULATION, REQUIREM	MENT AND EXPLANATION	
Short 100 XYZ at 115 Long 1 May 110 call at 6-1/2 Short 1 May 110 put at 1-3/8	Maintenance Margin Calculatio	on: Short XYZ 10% x 110 x 100 =	\$1,100.00
Short I way 110 put at 1 5/0	Maintenance Margin Requirem	ent:	\$1,100.00
	position (long call / short put). security position equal to the ex- component of a reverse converse	esents a short security position offs Option positions provide a maxin sercise price. The maintenance ma sion is 10% of the exercise price. 13 expiration. Any put in-the-money	num buy-in price for the short argin requirement on the stock Both options must have the
	If the Reverse Conversion in the margin required would be com	e above example is established at tl puted as follows:	he given prices, the <u>initial</u>
	Reverse Conversions (Initial M Short 100 shares at 115 Long 1 May 110 call at 6-1/2 Short 1 May 110 put at 1-3/8	fargin)	
	L	nort Stock: 150% x 115 x 100 = ong Call: overed Put:	\$17,250.00 650.00 <u>0.00</u> \$17,900.00
	<u>Initial</u> Margin Requirement:		\$17,900.00
	SMA Debit or Margin Call: \$3	17,900.00 - \$11,500.00 - \$137.50	0 = \$6,262.50
	position. For initial margin pu treated as any other short sale p	esents a short security position offs rposes, the short stock component burchase. The option components ne-money amount must be added t if excess Reg. T equity exists.	of a reverse conversion must be must be treated as a long call
REVERSE CONVERSION (PUT IN-THE-MONEY) EXAMPLE			
Short 100 XYZ at 71-7/8 Long 1 XYZ Dec 75 call Short 1 XYZ Dec 75 put	Maintenance Margin Calculation	10% x 75 x 100 =	\$750.00
		$\frac{\text{Put}}{(75 - 71.875)} \times 100 =$	\$312.50
	Maintenance Margin Requireme	ent: \$750.00 + \$312.50 =	\$1,062.50
	position (long call / short put). security position equal to the excomponent of a reverse convers same exercise price and time of	resents a short security position offer. Option positions provide a maxim sercise price. The maintenance maxim is 10% of the exercise price. The expiration is 10% of the exercise price. In this example, the put is in-the short stock requirement.	num buy-in price for the short argin requirement on the stock Both options must have the y amount must be added to the

 $[\]overline{\ \ }^{13}$ In addition, 100% of the short security current market value must be maintained at all times.

MAINTENANCE MARGIN FOR HEDGED UNDERLYING POSITIONS COLLAR EXAMPLE	CALCULATION, REQUIREMENT	AND EXPLANATION	
Long 100 XYZ at 31-3/4 Long 1 XYZ Dec 30 put Short 1 XYZ Dec 35 call	Maintenance Margin Calculation:	XYZ a) [(10% x 30) + 1.75] x 100 = b) 25% x 35 x 100 =	\$475.00 \$875.00
	Maintenance Margin Requirement:		\$475.00
	<i>Explanation:</i> The maintenance margin requirement on a long position in an underlying instrument which is part of a collar is the <u>lower</u> of 1) 10% of the put exercise price plus any out-of-themoney amount or 2) 25% of the call exercise price. For margin purposes, the stock must be valued at the lower of market price or the call exercise price.		



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