Name:
KCG Futures
A division of KCG Americas LLC
CUSTOMER ACCOUNT DOCUMENTS
KCG Futures
350 N. Orleans
3 rd Floor South
Chicago, IL 60654
Phone (312) 356-6100
Fax (312) 356-6410

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KCG Futures

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RISK DISCLOSURE STATEMENT FOR FUTURES AND OPTIONS

The risk of loss in trading commodity futures contracts can be substantial. You should, therefore, carefully consider whether such trading is suitable for you in light of your circumstances and financial resources. You should be aware of the following points:

- (1) You may sustain a total loss of the funds that you deposit with your broker to establish or maintain a position in the commodity futures market, and you may incur losses beyond these amounts. If the market moves against your position, you may be called upon by your broker to deposit a substantial amount of additional margin funds, on short notice, in order to maintain your position. If you do not provide the required funds within the time required by your broker, your position may be liquidated at a loss, and you will be liable for any resulting deficit in your account.
- (2) The funds you deposit with a futures commission merchant for trading futures positions are not protected by insurance in the event of the bankruptcy or insolvency of the futures commission merchant, or in the event your funds are misappropriated. The funds you deposit with a futures commission merchant for trading futures positions are not protected by the Securities Invest or Protection Corporation even if the futures commission merchant is registered with the Securities and Exchange Commission as a broker or dealer.
- (3) The funds you deposit with a futures commission merchant are generally not guaranteed or insured by a derivatives clearing organization in the event of the bankruptcy or insolvency of the futures commission merchant, or if the futures commission merchant is otherwise unable to refund your funds. Certain derivatives clearing organizations, however, may have programs that provide limited insurance to customers. You should inquire of your futures commission merchant whether your funds will be insured by a derivatives clearing organization and you should understand the benefits and limitations of such insurance programs.
- (4) The funds you deposit with a futures commission merchant are not held by the futures commission merchant in a separate account for your individual benefit. Futures commission merchants commingle the funds received from customers in one or more accounts and you may be exposed to losses incurred by other customers if the futures commission merchant does not have sufficient capital to cover such other customers' trading losses.
- (5) The funds you deposit with a futures commission merchant may be invested by the futures commission merchant in certain types of financial instruments that have been approved by the Commission for the purpose of such investments. Permitted investments are listed in Commission Regulation 1.25 and include: U.S. government securities; municipal securities; money market mutual funds; and certain corporate notes and bonds. The futures commission merchant may retain the interest and other earning s realized from its investment of customer funds. You should be familiar with the types of financial instruments that a futures commission merchant may invest customer funds in.
- (6) Futures commission merchants are permitted to deposit customer funds with affiliated entities, such as affiliated banks, securities brokers or dealers, or foreign brokers. You should inquire as to whether your futures commission merchant deposits funds with affiliates and assess whether such deposits by the futures commission merchant with its affiliates increases the risks to your funds
- (7) You should consult your futures commission merchant concerning the nature of the protections available to safeguard funds or property deposited for your account.
- (8) Under certain market conditions, you may find it difficult or impossible to liquidate a position. This can occur, for example, when the market reaches a daily price fluctuation limit ("limit move").
- (9) All futures positions involve risk, and a "spread" position may not be less risky than an outright "long" or "short" position.
- (10) The high degree of leverage (gearing) that is often obtainable in futures trading because of the small margin requirements can work against you as well as for you. Leverage (gearing) can lead to large losses as well as gains.
- (11) In addition to the risks noted in the paragraphs enumerated above, you should be familiar with the futures commission merchant you select to entrust your funds for trading futures positions. The Commodity Futures Trading Commission requires each futures commission merchant to make publicly available on its Web site firm specific disclosures and financial information to assist you with your assessment and selection of a futures commission merchant. Information regarding this futures commission merchant may be obtained by visiting our Web site, www.kcg.com.
- (12) ALL OF THE POINTS NOTED ABOVE APPLY TO ALL FUTURES TRADING WHETHER FOREIGN OR DOMESTIC. IN ADDITION, IF YOU ARE CONTEMPLATING TRADING FOREIGN FUTURES OR OPTIONS CONTRACTS, YOU SHOULD BE AWARE OF THE FOLLOWING ADDITIONAL RISKS:

(13) Foreign futures transactions involve executing and clearing trades on a foreign exchange. This is the case even if the foreign exchange is formally "linked" to a domestic exchange, whereby a trade executed on one exchange liquidates or establishes a position on the other exchange. No domestic organization regulates the activities of a foreign exchange, including the execution, delivery, and clearing of transactions on such an exchange, and no domestic regulator has the power to compel enforcement of the rules of the foreign exchange or the laws of the foreign country. Moreover, such laws or regulations will vary depending on the foreign country in which the transaction occurs. For these reasons, customers who trade on foreign exchanges may not be afforded certain of the protections which apply to domestic transactions, including the right to use domestic alternative dispute resolution procedures. In particular, funds received from customers to margin foreign futures transactions may not be provided the same protections as funds received to margin futures transactions on domestic exchanges. Before you trade, you should familiarize yourself with the foreign rules which will apply to your particular transaction. (14) Finally, you should be aware that the price of any foreign futures or option contract and, therefore, the potential profit				
and loss resulting therefrom, may be affected by any fluctuation in the foreign exchange rate between the time the order is place the foreign futures contract is liquidated or the foreign option contract is liquidated or exercised.	d and			
THIS BRIEF STATEMENT CANNOT, OF COURSE, DISCLOSE ALL THE RISKS AND OTHER ASPECTS OF COMMODITY MARKETS.	THE			

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ELECTRONIC TRADING AND ORDER ROUTING SYSTEMS DISCLOSURE STATEMENT

Electronic trading and order routing systems differ from traditional open outcry pit trading and manual order routing methods. Transactions using an electronic system are subject to the rules and regulations of the exchange(s) offering the system and/or listing the contract. Before you engage in transactions using an electronic system, you should carefully review the rules and regulations of the exchange(s) offering the system and/or listing contracts you intend to trade.

DIFFERENCES AMONG ELECTRONIC TRADING SYSTEMS

Trading or routing orders through electronic systems varies widely among different electronic systems. You should consult the rules and regulations of the exchange offering the electronic system and/or listing the contract traded or order routed to understand, among other things, in the case of trading systems, the system's order matching procedure, opening and closing procedures and prices, error trade policies, and trading limitations or requirements; and in the case of all systems, qualifications for access and grounds for termination and limitations on the types of orders that may be entered into the system. Each of these matters may present different risk factors with respect to trading on or using a particular system. Each system may also present risks related to the system access, varying response times, and security. In the case of internet-based systems, there may be additional types of risks related to system access, varying response times and security as well as risks related to service providers and the receipt and monitoring of electronic mail.

RISKS ASSOCIATED WITH SYSTEM FAILURE

Trading through an electronic trading or order routing system exposes you to risks associated with system or component failure. In the event of system or component failure, it is possible that for a certain time period, you may not be able to enter new orders, execute existing orders, or modify or cancel orders that were previously entered. System or component failure may also result in loss of orders or order priority.

SIMULTANEOUS OPEN OUTCRY PIT AND ELECTRONIC TRADING

Some contracts offered on an electronic trading system may be traded electronically and through open outcry during the same trading hours. You should review the rules and regulations of the exchange offering the system and/or listing the contract to determine how orders that do not designate a particular process will be executed.

LIMITATION OF LIABILITY

Exchanges offering an electronic trading or order routing system and/or listing the contract may have adopted rules to limit their liability, the liability of FCMs, and software and communication system vendors and the amount of damages you may collect for system failure and delays. These limitations of liability provisions vary among the exchanges. You should consult the rules and regulations of the relevant exchange(s) in order to understand these liability limitations.

^{*}Each exchange's relevant rules are available upon request from the industry professional with whom you have an account. Some exchange's relevant rules also are available on the exchange's internet home page.

KCG Futures

CUSTOMER APPLICATION

If this is a Joint Account (INCLUDING joint with spouse), please provide all of the following information separately for each owner. If there are more than two Joint Account owners, you must supply the following information for each owner on an additional sheet.

				,	
Account Name		Social Security # or Fed. Tax ID#		Date of	Birth or Formation
Marital Status		Number of Dependents			
Account Mailing Address		Telephone Number(s)			
City	State	Zip Code	Countr	ry	
Employer	Occupation		Nature of Busine	ess	
Business Address		Telephone Number(s)			
City	State	Zip Code	Cour	ntry	
No. Years Trading Experience:					
Commodity Futures Trading		Securities		Options	
Please List Brokerage Firms at Which You				•	
"A" for Active; "I" for Inactive:					(Account No.)
	,	11 /	, , ,	\$ Amt. of Equity)	(Account No.)
1	C S				
2	C S				
3	C S	B A I	\$		
Account Type: Individual () Corporation () Limited Liability Company () Partnership () Partnership and LLCs must submit Partnership Agreement or Operating Agreement, as applicable Other (Explain): Nature of Trading Non-Discretionary() Discretionary() Note: If this is a discretionary account, please complete discretionary forms. Trading Objectives: Hedging() Speculation() If Non-Discretionary, who maintains the Power of Attorney? Name: Address: City: State: Zip: Own Research() Advice of Broker() Other: If Hedge Account, what is the nature of your business? Producer() Refiner() Dealer() User() Other (Explain): If Hedge Account, indicate the type(s) of commodities to be hedged: ()Financial Instruments/Currencies (specify): ()Metals (specify): ()Other: ()Other:					
Entities are required to submit financial state	ments from our customers in ord	der to open a commodity trading a			
The attached financial statements are:	Audited() Unau	dited() As of (Month/	Day/Year)(/	/)	
Customer's Fiscal Year Ends (Month/Day/Y	ear)(/ /)				

Bank Reference: (Name & Address)	(Contact)		(Telep	hone No.)			(Acce	ount No.)
Financial Profile: Estimated Annual Income	Estimated Net Worth			g residence)	orth			Tax Bracket
Under \$20,000 \$20,000-\$50,000 \$50,000-\$100,000 Over \$100,000	Under \$15,000 \$15,000-\$50,000 \$50,000-\$100,000 \$100,000-\$500,000 Over \$500,000		Under \$15,000 \$15,000-\$50,000 \$50,000-\$100,000 \$100,000-\$500,000 Over \$500,000			15% 20% Over 28%		
Account Name-Joint Holder			urity # or Fed. Tax l	D#		Date of	of Birth	or Formation
Marital Status			Dependents					
Account Mailing Address	State	Telephone	Number(s)	1 7	7			
City	State	Zip Code			Country			
Employer	Occupation			Nature of E	Business			
Business Address		Telephone	Number(s)					
City	State	Zip Code			Country			
No. Years Trading Experience:								
Commodity Futures Trading		Securities _			Opt	ions		
Please List Brokerage Firms at Which You	Currently Maintain or Have Prev	iously Maint	ained Investment: C	circle "C" for	Commodit	ies; "S" for S	Securities	s, "B" for Both – Circle
"A" for Active; "I" for Inactive: (Brokerage Firm) (Cit	y, State) (Account	Type)	(Active/Inacti	ve) (Avg. \$ Am	t. of Equity)		(Account No.)
1	C S	В	ΑI	5	\$		-	
2	C S	В	ΑI	9	\$		-	
3	C S	В	ΑI	9	\$		-	
Bank Reference: (Name & Address) (Contact)			(Telep	hone No.)			(Acco	ount No.)
Financial Profile:								
Estimated Annual Income	Estimated Net Worth		Estimated Liquid Net Worth (excluding residence)		orth	Federal Tax Bracket		
☐ Under \$20,000 ☐ \$20,000-\$50,000 ☐ \$50,000-\$100,000 ☐ Over \$100,000	Under \$15,000 \$15,000-\$50,000 \$50,000-\$100,000 \$100,000-\$500,000 Over \$500,000		☐ Under ☐ \$15,00 ☐ \$50,00 ☐ \$100,0	\$15,000 0-\$50,000 0-\$100,000 00-\$500,000 500,000			_ _ _	15% 20% Over 28%

Description of the second seco	If Yes, then who, and de	scribe relationship: Nam	ne:	
Does anyone else have a financial interest in, guarantee, or control of this account?				
Yes() No()	City:		State:	Zip:
				1
	Kerationship.			_
Is the customer, any principal or any affiliate: (1) A member of the NFA or any exchange? (2) Registered with the CFTC, NFA, SEC or NASE (3) An employee of or related to any employee of brokerage firm, the CFTC, NFA, SEC, NASD of the NFA or any employee of the NFA or any exchange?	any securities or futures	Yes() No() Yes() No() Yes() No()		
•				
(Attach separate sheet if necessary.)				
Has the customer or any principal currently, or within the last any governmental or regulatory agency or private party?	st three years, been inve	olved in any investigation Yes() N		s, including bankruptcy, involving
If Yes, Please explain:				
				_
(Attach separate sheet if necessary) THE UNDERSIGNED HAS REVIEWED THE INFORMATIO			D VERIFIES THAT	IS TRUE AND CORRECT, AND
FURT	HER AGREES TO PRO	OMPTLY NOTIFY KCG		
OF ANY MATERIAL CHANGES TO THE INFORMATION I	PROVIDED ON THIS I	FORM.		
Date:		Name of Account:		
		Customer Signature: _		

CUSTOMER AGREEMENT

In consideration of the acceptance and maintenance of one or more accounts in commodities, commodity futures contracts, options or commodities or options on commodity futures contracts (collectively, "futures contracts") by KCG Futures a division of KCG Americas LLC ("Broker").

("Broker") for the undersigned ("Customer"), it is agreed as follows:

- 1. <u>AUTHORIZATION.</u> Customer authorizes Broker to purchase and sell futures contracts for Customer's account in accordance with Customer's oral, written or electronic instructions. Customer hereby waives any defense that any such instructions were not in writing as may be required by the Statute of Frauds or any other law, rule, or regulation.
- 2. <u>MARGIN REQUIRED.</u> Customer will at all times maintain collateral and margin for all accounts as from time to time may be required by Broker in its sole discretion or demanded by applicable laws or exchange regulations.
- 3. <u>FEES AND OTHER CHARGES.</u> Customer shall pay Broker (a) applicable brokerage, commission and other charges on any transaction executed by Broker on Customer's behalf in effect from time to time; (b) any charges imposed on such transaction by the exchange or clearing house through which it is executed, any other transaction fees, and any tax imposed on such transaction by competent authority; (c) the amount of any loss or cost suffered by Broker that may result from such transaction; and (d) interest and service charges on any deficit in Customers' account balance at the rates customarily charged by Broker. Such payments shall be made to Broker at its address stated above or such other place as Broker gives notice to Customer.
- 4. <u>RULES AND REGULATIONS.</u> All transactions by Broker on Customer's behalf shall be subject to the applicable constitution, by-laws, rules regulations, customers, usages, rulings, and interpretations of the exchange (and its clearing house), board of trade, contract market, or other market, on which such transactions are executed or cleared by Broker or its agents for Customer's account, and to all applicable governmental acts and statutes (including, without limitation, the Commodity Exchange Act, as amended) and to the rules and regulations made by the Commodity Futures Trading Commission ("CFTC") thereunder. Broker shall not be liable to Customer as a result of any actions taken by Broker or its agent to comply therewith. If any term or provision hereof, or the application thereof to any person or circumstances, shall to any extent be contrary to any law or exchange or government regulation or otherwise invalid of unenforceable, the remainder of the Agreement, or the application of such term or provision to persons or circumstances other than those as to which it is contrary, invalid or unenforceable, shall not be affected thereby, and it shall be enforced to the fullest extent permitted by regulation and law.
- 5. <u>SINGLE ACCOUNT.</u> All transactions in futures contracts for or in connection with Customer's accounts shall be deemed to be included in a single account notwithstanding the fact that such transactions may be segregated on Broker's records into separate accounts, either severally or jointly with others. Any transfer between such accounts may be made on Customer's verbal instructions or at any time, from time to time, in Broker's discretion, Broker may without notice to Customer, apply or transfer any or all monies, securities, commodities, options, commodity futures contracts or other property of Customer interchangeably a mong any of Customer's accounts; provided, however, that Broker shall not, without Customer's prior written consent, use Customer's net equity in any account subject to the regulations of the CFTC under the Commodity Exchange Act, as amended, to carry trades or to offset any net deficit of Customer in goods or property not included in the term "commodity" as defined in said regulations.
- LIQUIDATION. In the event that (a) Customer shall fail to timely deposit or maintain or to make payment of margin or any other amount hereunder; (b) Customer (if an individual) shall die or be judicially declared incompetent or (if an entity) shall be dissolved or otherwise terminated; (c) a proceeding under the Bankruptcy Act, an assignment for the benefit of creditors, or an application for a receiver, custodian, or trustee shall be filed or applied for by or against Customer; (d) an attachment is levied against Customer's account; (e) the property deposited as collateral is determined by Broker in its sole discretion, regardless of current market quotation, to be inadequate to properly secure the account; or (f) at any time Broker deems it necessary for its protection for any reason whatsoever, Broker may, in the manner it deems appropriate in order to prevent or minimize loss, close out Customer's open positions in whole or in part, sell any or all of Customer's property held by Broker, including but not limited to exchange memberships, buy any securities, futures contracts, options or other property for Customer's account, and cancel any outstanding orders and commitments made by Broker on behalf of Customer. Such sale, purchase or cancellation may be made at Broker's discretion without advertising the same and without notice to Customer or his personal representatives and without prior tender, demand for margin or payment, or call of any kind upon Customer. Broker may purchase the whole or any part thereof free from any right of redemption. It is understood that a prior demand or call or prior notice of the time and place of such sale or purchase shall not be considered a waiver of Broker's right to sell or buy without demand or notice as herein provided. Customer shall remain liable for and shall pay to Broker immediately the amount of any deficiency in any account of Customer with Broker resulting from any transaction described above. For purposes of this Customer Agreement, a reasonable amount of time shall be deemed to be one hour or less, if in Broker's sole discretion market conditions required that margin calls be met in less than one hour.
- 7. <u>DISCHARGE OF OBLIGATIONS.</u> Customer undertakes, at any time upon Broker's demand, to discharge all obligations to Broker, or, in the event of a closing of any of Customer's accounts in whole or in party, to pay Broker the deficiency, if

any, including costs, damages or attorney fees suffered or paid by Broker, directly or indirectly, in connection with such deficiency. In lieu of requiring the immediate discharge of any of Customer's obligations, Broker may, in Broker's discretion, demand security for such obligation (and if Broker so elects, for all future obligations of Customer) in which event Customer will either discharge all existing obligations to Broker or furnish such security as Broker shall have demanded, and, in that connection, execute and deliver such security agreements, financing statements and other documents, informs prescribed or approved by Broker, as Broker shall reasonably request.

- 8. RISK OF LOSS; INDEMNIFICATION. All transactions effected for Customer's accounts and all fluctuations in the market prices of the futures contracts carried in Customer's accounts are at Customer's sole risk and Customer shall be solely liable under all circumstances for any losses arising from such transactions. By execution of this agreement, Customer warrants that Customer is willing and financially able to sustain any such losses. Broker is not responsible for the obligations of the persons with whom Customer's transactions are effected, nor is Broker responsible for delays in transmission, delivery or execution of Customer's orders due to malfunctions of communications facilities or other causes. Broker shall not be liable to Customer for the loss of any margin deposits which is the direct or indirect result of the bankruptcy, insolvency, liquidation, receivership, custodianship or assignment for the benefit of creditors of any bank, another clearing broker, exchange, clearing organization or similar entity. Customer agrees to indemnify Broker and hold Broker harmless from any liability, cost or expense (including attorneys' fees and expenses and any fines or penalties imposed by any governmental agency, contract market, exchange, clearing organization or other self-regulatory body) which Broker may incur or be subjected to with respect to Customer's account or any transaction or position therein. Without limiting the generality of the foregoing, Customer agrees to reimburse Broker on demand for any cost of collection incurred by Broker in collecting any sums owing by Customer under this agreement and any cost incurred by Broker in successfully defending itself against any claims asserted by Customer, including all attorneys' fees, interest and expenses.
- 9. FAILURE TO DELIVER. If at any time Customer fails to deliver to Broker any property previously sold by Broker on Customer's behalf or fails to deliver property, securities or financial instruments in compliance with futures contracts, or if Broker shall be required or shall deem it necessary (whether by reason of the requirements of any exchange, clearing house or otherwise) to replace any securities, futures contracts, financial instruments or other property theretofore delivered by Broker for the account of Customer with other property of like equivalent kind or account, Customer authorizes Broker in its sole judgment to borrow or to buy any property necessary to make delivery thereof or to replace any such property previously delivered and to deliver the same to such other party to whom delivery is to be made. Broker may subsequently repay any borrowing thereof with property purchased or otherwise acquired for the account of Customer. Customer shall pay Broker for any cost, loss and damage from the foregoing (including consequential damages, penalties and fines) which Broker may be required to incur or which Broker may sustain from its inability to borrow or buy any such property.
- 10. <u>SECURITY AGREEMENT.</u> All monies, securities, options, financial instruments, futures contracts or other property ("property") now or at any future time in Customer's account or held for Customer (either individually or jointly with others) by Broker or by any clearing house through which Customer's trades are executed, or which may be in Broker's possession for any purpose (including safekeeping) are hereby pledged with Broker and shall be subject to a security interest and general lien in Broker's favor to secure all indebtedness at any time owing from Customer to Broker. Broker is hereby authorized to sell any and all property in any of Customer's accounts without notice to satisfy such general lien.
- 11. <u>INVESTMENT OF PROPERTY.</u> All property now or hereafter held or carried by Broker for Customer may from time to time without notice to Customer be invested by Broker or others, separately or with any other property; provided that such property shall be segregated to the extent required by, and shall be invested only in accordance with, rules of the CFTC. Broker shall be under no obligation to deliver the same certificates, instruments or securities deposited with Broker or received by Broker for the account of Customer, but may deliver other certificates, instruments or securities of like or equivalent kind or amount.
- 12. NO LIABILITY FOR SYSTEM DELAYS AND FAILURES. Broker shall not be liable for delays in the transmission or execution of orders due to breakdown or failure of transmission or communication facilities, or for any other cause beyond Broker's control. With respect to electronic order entry Customer agrees that broker's liability shall be limited to gross negligence or willful misconduct. Customer agrees that Broker shall not be liable for any losses, damages, costs or expense (including, but not limited to, loss of profits, loss of use, direct, indirect, incidental or consequential damages) arising from (a) any failure or malfunction, including but not limited to any inability, for any reason, to enter or cancel electronic orders; or (b) any fault in delivery, delay, omission, suspension, inaccuracy or termination, or any other cause in connection with the furnishing, performance, maintenance, use of or inability to use all or any party of any electronic order entry system or any of Broker's and/or exchange services or facilities used to support any electronic order system. If, in connection with the use of any electronic order routing system ("ORS"), Customer receives a password, Customer agrees to be solely responsible for any order entered using Customer's password. Customer understands that while accessing an ORS through the Internet or otherwise generally is dependable, technical problems or other conditions may delay or prevent Customer from entering or canceling an order on the ORS, or likewise may delay or prevent an order transmitted through the ORS from being executed. Broker shall not be liable for, and Customer agrees not to hold or seek to hold Broker liable for, any technical problems, ORS failures and malfunctions, ORS access issues, ORS capacity issues, high Internet traffic demand, security breaches and unauthorized access beyond the reasonable control of Broker, and other similar computer

problems and defects. Broker does not represent, warrant or guarantee that Customer will be able to access or use any ORS at times or locations of Customer's choosing, or that Broker will have adequate capacity for the ORS as a whole or in any geographic location. Broker does not represent, warrant or guarantee that the ORS will provide uninterrupted and error free service. Broker does not make any warranties or guarantees, express or implied, with respect to the ORS or its content, including without limitation, warranties of merchantability or fitness for a particular purpose. Broker shall not be liable to Customer for any loss, cost, damage or other injury, whether in contract or tort, arising out of or caused in whole or in part by Customer's use of or reliance on the ORS or its content. In no event will Broker be liable to Customer or any third party for any punitive, consequential, special or similar damages even if advised of the possibility of such damage. In some jurisdictions, the liability of Broker shall be limited in accordance with this Agreement to the extent permitted by law. Broker reserves the right to suspend service and deny access to any ORS without prior notice during scheduled or unscheduled ORS maintenance or upgrading.

13. <u>FLOOR BROKERS; RECOMMENDATIONS.</u> Customer acknowledges and understands that it has a right to specify and direct which broker on the floor of a contract market is selected to execute an order placed for Customer's accounts, and Customer hereby expressly waives such right and further agrees to hold Broker harmless for effecting such selection and from and against any liability, claim or cause of action which Customer might have against Broker under the Commodity Exchange Act as amended (the "Act") or otherwise for the alleged action or omission to act of any such floor broker or from any claim arising from an alleged violation of the Act in the execution of an order for Customer's accounts by such floor broker, absent willful and intentional misconduct on the part of Broker in making such selection.

Customer acknowledges that any trading recommendations and market or other information communicated to Customer by Broker does not constitute an offer to sell or the solicitation of an offer to buy any futures contract. Any such recommendations and information, although based upon information obtained from sources believed by Broker to be reliable, may be incomplete, may not be verified and may be changed without notice to Customer, and Broker makes no representation, warranty or guarantee with respect thereto.

14. EXERCISES, ASSIGNMENTS, AND DELIVERIES. With regard to options transactions, Customer understands that some exchange clearing houses have established exercise requirements for the tender of exercise instructions and that options will become worthless in the event that Customer does not deliver instructions by such expiration times. At least two business days prior to the last trading day in the case of long and short positions in options, Customer will give Broker instructions to liquidate, exercise, or allow the expiration of such options, and will deliver to Broker sufficient funds required in connection with exercise. If such instructions or such funds, are not received by Broker prior to the expiration of the option, Broker may permit an option to expire. Customer also understands that certain exchanges and clearing houses automatically exercise some "in-the-money" options unless instructed otherwise. Customer acknowledges full responsibility for taking action either to exercise or to prevent exercise of an option contract, as the case may be; Broker is not required to take any action with respect to an option, including without limitation any action to exercise a valuable option contract prior to its expiration or to prevent the automatic exercise of an option, except upon Cu stomer's express instructions. Customer further understands that Broker also has established exercise cut-off times, which may be different from the times established by the contract markets in clearing houses. In the event that timely exercise and assignment instructions are not given, Customer hereby agrees to waive any and all claims for damage or loss Customer might have against Broker arising out of the fact that an option was or was not exercised. Customer understands that Broker randomly assigns exercise notices to Customers, that all short option positions are subject to assignment at any time, including positions established on the same day that exercises are assigned, and that exercise assignment notices are allocated randomly from among all Customers' short option positions which are subject to exercise.

With regard to futures or forwards transactions, liquidating instructions on open positions in a current delivery month must be given to Broker at least five business days prior to the first notice day in the case of long positions, and at least five business days prior to the last trading day in the case of short positions. Alternatively, sufficient funds to take delivery or the necessary delivery documents must be delivered to Broker within the same period described above. If funds, documents or instructions are not received, Broker may, without notice, either liquidate Customer's position, roll such position forward, or make or receive delivery on behalf of Customer upon such terms and by such methods as Broker, in its sole discretion, determines. Broker shall have no liability to Customer for any such action. If Broker takes delivery of any property for Customer's account, Customer agrees to pay all delivery, storage, insurance, interest and related charges, and to guarantee and hold Broker harmless against any loss it may suffer, directly or indirectly, from a decline in the value of such property. Customer expressly acknowledges that, particularly in volatile markets, the making or accepting of delivery may involve a higher degree of risk than liquidating a position by offset.

15. <u>COMMUNICATIONS.</u> All communications to Customer shall be to his mailing address indicated below or to such other place as Customer gives notice in writing to Broker. All communications so sent to Customer, whether by mail, telegraph, mes senger or otherwise, shall be deemed to have been personally delivered to Customer whether actually received or not. Notices sent by messenger shall be deemed duly given when delivered to the address of Customer as designated below. Notices sent by telegraph shall be deemed duly given one hour after the time of receipt by the telegraph office. Notices sent by mail shall be deemed duly given at 9:00 A.M. (Chicago time) on the business day immediately following the date of mailing. All communications to Broker shall be to its address stated above or such other place as Broker gives notice to Customer.

- 16. <u>RIGHTS AND REMEDIES.</u> The rights and remedies conferred upon Broker shall be cumulative, and the exercise of waiver of any thereof shall not preclude or inhibit the exercise of additional rights and remedies. Broker's failure at any time to insist upon strict compliance with this Agreement or any of its terms or any continued course of conduct on Customer's part shall not constitute or be considered a waiver by Broker of any of its rights. This Agreement contains the entire agreement between the parties and supersedes any prior agreements between the parties as to the subject matter hereof. Subject to section 4 hereof, no provision of this Agreement shall in any respect be waived, modified, altered, or changed except in writing signed by a duly authorized officer of Broker. This Agreement shall be construed according to, and the rights and liabilities of the parties hereto shall be governed by, the laws of the State of Illinois.
- 17. <u>ASSIGNMENT AND SUCCESSION.</u> This Agreement shall inure to the benefit of the Broker, its successors, and assigns, and shall be binding upon Customer and Customer's heirs, estate, executors, administrators, successors and assigns. The provisions of this Agreement shall be continuous and shall cover individually and collectively all accounts which Customer now maintains or may in the future open or reopen with Broker. Broker may assign Customer's account to another registered futures commission merchant by notifying Customer of the date and name of the intended assignee ten (10) days prior to the assignment. Unless Customer objects to the assignment in writing prior to the scheduled date for assignment, the assignment will be binding on Customer. Anything to the contrary notwithstanding, Customer agrees that Broker may modify the terms of this agreement upon prior written notice to Customer. By continuing to accept services from Broker, Customer will have indicated acceptance of any such modification. If Customer dose not accept such modification, Customer must notify Broker in writing and Customer's account may then be terminated, but Customer will remain liable to Broker for all remaining liabilities and obligations.
- 18. <u>CUSTOMER REPRESENTATIONS.</u> Customer represents that (a) (if an individual), he is of the age of majority, of sound mind, and authorized to open accounts and enter into this Agreement and to effectuate transactions in futures contracts as contemplated hereby; (b) if an entity, Customer is validly existing and empowered to enter into this Agreement and to effect transactions in futures contracts as contemplated hereby; (c) the statements and financial information contained on Customer's Application submitted herewith (including any financial statement submitted therewith) are true and correct; (d) Customer has read, understands and has signed the CFTC Risk Disclosure Statements previously furnished by Broker; and (e) no person or entity has any interest in or control of the account of which this Agreement pertains except as disclosed in the Customer Information and Application (Customer Application). Customer further represents that, except as theretofore disclosed to Broker in writing, he is not an officer or an employee of any exchange board of trade, clearing house, bank or trust company or an "affiliated person" (as defined in the regulations of the CFTC) of any futures commission merchant, or an introducing broker, or an officer, partner, director, or employee of any securities broker or dealer. Customer agrees to furnish appropriate financial statements to Broker, to disclose to Broker any material changes in the financial position of Customer and to furnish promptly such other information concerning Customer as broker reasonably request.
- 19. <u>CUSTOMER ABLE TO ASSUME RISKS.</u> Customer affirms that he is able to assume the financial risks of commodity futures trading and that commodity futures trading meets his financial objectives. Customer agrees to notify Broker if there is any material change in his financial condition or objectives.
- 20. <u>CLEARING BROKER RESPONSIBILITIES.</u> If Customer's account is carried by Broker only as a clearing broker, Customer acknowledges that Broker is not responsible for the conduct, representations, and statements of the introducing broker in the handling of Customer's accounts. Customer acknowledges that Broker's sole responsibility in such circumstances is to execute, clear and account for orders transmitted to Broker by or on behalf of Customer.
- 21. <u>CONSENT TO CREDIT CHECK; ANTI-MONEY LAUNDERING PROVISIONS.</u> Customer understands an investigation may be made pertaining to his credit standing and his business accounts, and authorizes Broker to contract such banks, financial institutions, and credit agencies as Broker shall deem appropriate. Customer acknowledges that any account established pursuant to this Agreement shall be subject to anti-money laundering requirements established by applicable government agencies or self-regulating organizations. Accordingly, Customer shall promptly provide any documents or certifications requested by Broker which Broker believes are necessary or advisable to obtain for anti-money laundering compliance purposes.
- 22. <u>LIMITS ON POSITIONS HELD.</u> Customer acknowledges Broker's right to limit the number of open positions which Customer may maintain or acquire through Broker at any time and Customer agrees not to make any trade through Broker which would have the effect of exceeding the limitations imposed on Customer by Broker. Customer further agrees not to exceed the position limits set by the CFTC or any exchange, whether acting alone or with others, and to promptly advise Broker if Customer is required to file reports of commodity positions with the CFTC.
- 23. <u>FOREIGN CURRENCY TRANSACTIONS.</u> If Customer directs Broker to enter into any futures contract and such transaction is to be effected in a foreign currency; (a) any profit or loss arising as a result of a fluctuation in the exchange rate affecting such currency will be entirely for the Customer's account and risk; (b) all initial and subsequent deposits for market purposes shall be made in U.S. Dollars in such amounts as Broker in its sole discretion may require; and (c) Broker is authorized to convert

funds in the Customer's accounts into and from such foreign currency at an exchange rate determined by Broker in its sole discretion on the basis of the then prevailing exchange rates.

- SUBORDINATION AGREEMENT (APPLIES ONLY TO ACCOUNTS WITH FUNDS HELD IN FOREIGN COUNTRIES). Funds of customers trading on United States contract markets may be held in accounts denominated in a foreign currency with depositories or if the customer is domiciled in a foreign country or if the funds are held in connection with contracts priced and settled in a foreign currency. Such accounts are subject to the risk that events could occur which hinder or prevent the availability of these funds for distribution to customers. Such accounts also may be subject to foreign currency exchange rate risks. Customer authorizes the deposit of funds into such depositories. For customers domiciled in the United States, this authorization permits the holding of funds in regulated accounts denominated in a foreign currency on shore or offshore only if such funds are used to margin, guarantee, or secure positions in such contracts or accrue as a result of such positions. In order to avoid the possible dilution of other customer funds, a customer who has funds held in a foreign currency agrees by accepting this subordination agreement that his claims based on such funds will be subordinated as described below in the unlikely event both of the following conditions are met: (a) FCM is placed in receivership or bankruptcy; and (b) there are insufficient funds available for distribution denominated in the foreign currency as to which the customer has a claim to satisfy all claims against those funds. Customer agrees that if both of the conditions listed above occur, its claim against FCM's assets attributable to funds held overseas in a particular foreign currency may be satisfied out of segregated customer funds held in accounts denominated in dollars or other foreign currencies only after each customer whose funds are held in dollars or in such other foreign currencies receives its pro-rata portion of such funds. It is further agreed that in no event may a customer whose funds are held overseas receive more than its pro-rata share of the aggregate pool consisting of funds held in dollars, funds held in the particular foreign currency, and non-segregated assets of FCM.
- 25. <u>RECORDING.</u> Customer understands that Broker in its sole discretion may record, on tape or otherwise, any telephone conversation between Broker and Customer. Customer hereby agrees and consents to such recording and waives any right Customer may have to object to the admissibility into evidence of such recording in any legal proceeding to which Broker is a party or in which Broker's records are subpoenaed.
- DESIGNATION OF AGENT FOR SERVICE OF PROCESS (APPLIES TO FOREIGN TRADERS AND FOREIGN BROKERS ONLY).

 CFTC Rule 15.05 provides that a futures commission merchant that executes transactions for the account of a foreign trader or foreign broker will be deemed to be the agent of that foreign trader or foreign broker for purposes of accepting delivery of any communication issued by or on behalf of the CFTC. The futures commission merchant is then required to transmit promptly any such communication to the foreign trader or foreign broker. A foreign trader or foreign broker may, however, designate an agent other than its futures commission merchant. Such alternate designation must be evidenced by a written agreement, which must be provided to the futures commission merchant prior to the opening of the account, and which the futures commission merchant, in turn, must forward to the CFTC. Accordingly, for any foreign trader or foreign broker Customer, unless Customer makes the alternate designation described above, Broker will be deemed Customer's agent (and, if Customer is a broker, the agent of each Customer holding a position in Customer's account) for purposes of receiving and transmitting all CFTC communications to Customer pursuant to CFTC Rules 15.05 and 21.03. This includes, but is not limited to, special calls for information. In the event of a special call for information, Broker shall be required to provide the information set forth in CFTC Regulation 21.03(e). Customer should be aware that failure to respond to a special call may cause the CFTC to prohibit execution of trades (other than offsetting trades) for Customer for contracts having the expiration date(s) and month(s) set forth in the special call.
- 27. <u>HEADINGS AND GENDER.</u> The headings of each provision are for descriptive purposes only and shall not be deemed to modify or qualify any of the rights or obligations set forth in each provision. Where the context requires, the singular shall import the plural and the masculine shall import the feminine.
- 28. <u>GOVERNING LAW.</u> This agreement shall be governed by the laws of the State of Illinois. No action, regardless of form, arising out of transactions under this agreement may be brought by customer more than one year after the cause of action aros e. This paragraph acts as a waiver of the Commodity Exchange Act's two-year statute of limitations for filing complaints in Reparations, the NFA's two-year statute of limitations for filing Demands for Arbitrations and also acts as a waiver of all other state and federal law limitation periods.
- 29. <u>ACKNOWLEDGMENT OF DISCLOSURES AND SIGNATURE.</u> CUSTOMER HEREBY UNDERSTANDS THE CUSTOMER ACCOUNT AGREEMENT AND CONSENTS AND AGREES TO ALL OF THE TERMS AND CONDITIONS OF AGREEMENT SET FORTH ABOVE. CUSTOMER ACKNOWLEDGES THAT TRADING IN COMMODITY INTERESTS IS SPECULATIVE, INVOLVES A HIGH DEGREE OF RISK AND IS APPROPRIATE ONLY FOR PERSONS WHO CAN ASSUME RISK OF LOSS IN EXCESS OF THEIR MARGIN DEPOSIT.

Printed Customer Name	Printed Name of Signatory
By:Signature	Title of Signatory
Printed Customer Name	Printed Name of Signatory
By: Signature Date:	Title of Signatory

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Acknowledgement of Receipt of Risk Disclosure Statements

Customer hereby acknowledges receipt and Customer's understandin opening of the account:	g of each of the following documents prior to the
Risk Disclosure Statement for Futures and Options (pp. 1 and 2)	
Printed Customer Name:	
Signature:	Date:
Printed Customer Name (joint):	
Joint Account Signature (if applicable):	Date:
Electronic Trading And Order Routing Systems Disclosure Statement (p. 3)	
Printed Customer Name:	
Signature:	Date:
Printed Customer Name (joint):	
Joint Account Signature (if applicable):	Date:
Optional Elec	tion
The following provisions, which are set forth in this agreement, need no accepts optional election.	t be entered into to open the Account. By signing Customer
SUBORDINATION AGREEMENT (Agreement Paragraph 24)	
Printed Customer Name:	
Signature:	Date:
Printed Customer Name (joint):	
Joint Account Signature (if applicable):	Date:

Consent to Cross Transactions

This consent is being provided in order to comply with exchange rules regarding cross trade procedures and the execution of trades in which a floor broker or brokerage firm may be directly or indirectly involved as a principal to a transaction on an exchange that, from time to time, adopts rules requiring customer consent for these transactions.

Customer hereby consents that KCG its agents, or floor brokers handling KCG orders, may, without prior notice, execute Customer's orders in which KCG its directors, officers, employees, agents, or that floor broker, may directly or indirectly, become the buyer to Customer's sell order or the seller to Customer's buy order, provided that such executions are made in accordance with exchange rules and any applicable provision of the Commodity Exchange Act or regulations of the Commodity Futures Trading Commission. This consent shall be continuous and remain in effect until revoked in writing by Customer.

consent shall be continuous and remain in e	effect until revoked in writing by Customer.
By:Signature	Printed Name of Signatory
Date	Title of Signatory
By:Signature	Printed Name of Signatory
Date	Title of Signatory
(collectively, "Statements"). Customer to Customer's consent to electronic delivery such consent at any time. There is no specified by:	
Signature	Printed Name of Signatory
Date E-mail Address	Title of Signatory
By:	
Signature	Printed Name of Signatory
Date	Title of Signatory
F-mail Address	

HEDGE DESIGNATION	N (For Bona Fide Hedge Accounts Only)
3(z) and any amendments or CFTC interpretations whereades made in the account are bona fide hedges and Facur any liability, if, in fact, that they may not be sommodity futures broker files for bankruptcy, the confedge account an opportunity to indicate a preference	ons in the Account will represent bona fide hedges, as defined by CFTC Rule hich may be made in the future. KCG shall rely on this representation that all KCG shall have no obligation to inquire or verify the nature of such trades o such. CFTC Regulation 190.06(d) requires that in the unlikely event that a modity futures broker must provide to each client who intends to maintain a in regard to the liquidation of positions. Unless a preference is indicated by immediately liquidated upon the occurrence of the broker's bankruptcy. The
is understood, and the Customer agrees, that this account hedge accounts by the various commodity exchange	ommodity contracts in my hedge account without seeking instructions. unt is subject to hedge margins and to other rules and regulations as prescribed and the CFTC, and the Customer agrees to comply with all laws, rules, a not
egulations concerning hedging in such contracts.	
Sy: Signature	Printed Name of Signatory
Date	Title of Signatory
Sy: Signature	Printed Name of Signatory
Date	Title of Signatory
Bona Fide Hedge Commodities:Promptly Notify KCG of Changes to this List)	
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CONSENT TO JURISDICTION (Must be signed by all accounts)

All actions or proceedings arising with respect to any controversy arising out of this Agreement or orders entered or transactions effected for Customer's accounts shall be litigated, at the discretion and election of KCG only in courts whose situs is within Chicago, Illinois and Customer hereby submits to the jurisdiction of the courts of the State of Illinois, located in Chicago, Illinois, and the jurisdiction of the United States District Court of the Northern District of Illinois, Eastern Division. Customer shall accept court service of process by registered or certified mail addressed to the address provided in the Customer Application or to such other address as Customer has supplied to KCG in writing, and such service shall constitute personal service of such process. Customer waives any right Customer may have to transfer or change the venue of any litigation brought against Customer by KCG

By: Signature	Printed Name of Signatory
Date	Title of Signatory
By:Signature	Printed Name of Signatory
Date	Title of Signatory

DISCLOSURE STATEMENT RELATING TO NON-CASH MARGIN

THIS STATEMENT IS FURNISHED TO YOU BECAUSE RULE 190.10(C) OF THE COMMODITY FUTURES TRADING COMMISSION REQUIRES IT FOR REASONS OF FAIR NOTICE UNRELATED TO THIS COMPANY'S CURRENT FINANCIAL CONDITION.

- YOU SHOULD KNOW THAT IN THE UNLIKELY EVENT OF THIS COMPANY'S BANKRUPTCY, PROPERTY, INCLUDING PROPERTY SPECIFICALLY **TRACEABLE** TO YOU, WILL BE RETURNED, TRANSFERRED OR DISTRIBUTED TO YOU, OR ON YOUR BEHALF, ONLY TO THE EXTENT OF YOUR PRO RATA SHARE OF ALL PROPERTY AVAILABLE FOR DISTRIBUTION TO CUSTOMERS.
- 2. FURTHER NOTICE CONCERNING THE TERMS FOR THE RETURN OF SPECIFICALLY IDENTIFIABLE PROPERTY WILL BE BY PUBLICATION IN A NEWSPAPER OF GENERAL CIRCULATION.
- 3. THE COMMISSION'S REGULATIONS CONCERNING BANKRUPTCIES OF COMMODITY BROKERS CAN BE FOUND AT 17 CODE OF FEDERAL REGULATIONS PART 190.

THE FOLLOWING ARBITRATION AGREEMENT IS OPTIONAL AND MAY BE DECLINED BY CUSTOMER. PLEASE REVIEW THESE PROVISIONS CAREFULLY BEFORE SIGNING.

ARBITRATION AGREEMENT

Any controversy or claim arising out of or relating to Customer's account including any claim against KCG or any past or present officer, shareholder, affiliate, agent, alleged agent, employee or associated person of KCG or any other person for whose acts KCG is alleged to be liable, including any dispute regarding the scope and applicability of this section, shall be settled by arbitration upon either 1) the contract market on which the disputed transaction was executed or could have been executed; 2) National Futures Association or 3) the American Arbitration Association. Any award rendered thereon by the arbitrators shall be final and binding on each and all of the parties thereto and their personal representatives and judgment may be entered in any court having jurisdiction thereof.

Notification of your intent to arbitrate must be sent by certified mail to KCG at its office in Chicago, Illinois. At such time as you may notify KCG that you intend to submit a claim to arbitration, or at such time as KCG notifies you of its intent to submit a claim to arbitration, you will have the opportunity to elect a qualified forum for conducting the proceeding from a list KCG will provide to you within 10 days of receipt of such notice. If you fail to make a selection within 45 days of receipt of such list, KCG then has the right to make a selection from the list.

KCG acknowledges that it will be required to pay any incremental fees which may be assessed by a qualified forum for provision of a mixed panel, unless the arbitrators determine that the Customer has acted in bad faith in initiating or conducting that proceeding.

THREE FORUMS EXIST FOR THE RESOLUTION OF COMMODITY DISPUTES: CIVIL COURT LITIGATION, REPARATIONS AT THE COMMODITY FUTURES TRADING COMMISSION (CFTC) AND ARBITRATION CONDUCTED BY A SELF-REGULATORY OR OTHER PRIVATE ORGANIZATION.

THE CFTC RECOGNIZES THAT THE OPPORTUNITY TO SEITLE DISPUTES BY ARBITRATION MAY IN SOME CASES PROVIDE MANY BENEFITS TO CUSTOMERS, INCLUDING THE ABILITY TO OBTAIN AN EXPEDITIOUS AND FINAL RESOLUTION OF DISPUTES WITHOUT INCURRING SUBSTANTIAL COSTS. THE CFTC REQUIRES, HOWEVER, THAT EACH CUSTOMER INDIVIDUALLY EXAMINE THE RELATIVE MERITS OF ARBITRATION AND THAT YOUR CONSENT TO THIS ARBITRATION AGREEMENT BE VOLUNTARY.

BY SIGNING THIS AGREEMENT YOU: (1) MAY BE WAIVING YOUR RIGHT TO SUE IN A COURT OF LAW; AND (2) ARE AGREEING TO BE BOUND BY ARBITRATION OF ANY CLAIMS OR COUNTERCLAIMS WHICH YOU OR KCG MAY SUBMIT TO ARBITRATION UNDER THIS AGREEMENT. YOU ARE NOT, HOWEVER, WAIVING YOUR RIGHT TO ELECT INSTEAD TO PETITION THE CFTC TO INSTITUTE REPARATIONS PROCEEDINGS UNDER SECTION 14 OF THE COMMODITY EXCHANGE ACT WITH RESPECT TO ANY DISPUTE WHICH MAY BE ARBITRATED PURSUANT TO THIS AGREEMENT. IN THE EVENT A DISPUTE ARISES, YOU WILL BE NOTIFIED IF KCG INTENDS TO SUBMIT THE DISPUTE TO ARBITRATION. IF YOU BELIEVE A VIOLATION OF THE COMMODITY EXCHANGE ACT IS INVOLVED AND IF YOU PREFER TO REQUEST A SECTION 14 "REPARATIONS" PROCEEDING BEFORE THE CFTC, YOU WILL HAVE 45 DAYS FROM THE DATE OF SUCH NOTICE IN WHICH TO MAKE THAT ELECTION.

YOU NEED NOT SIGN THIS AGREEMENT TO OPEN AN ACCOUNT WITH KCG SEE 17 CFR 180.1-180.5.

By:	Printed Name of Signatory
Date	Title of Signatory
By:	Printed Name of Signatory
Date	Title of Signatory

Debit Authorization

In consideration of the goods, products, and/or services provided to me by KCG, I hereby authorize KCG to debit my account for any and all software, monthly charges, and/or fees associated with my account.

This authorization is to remain in full force and effect until such time as it is revoked in writing. I further understand and acknowledge that I may be held liable for costs and fees associated with this agreement for a period of 30 days subsequent to receipt of such written notice by KCG.

Printed Cust	tomer Name	
Signature		
Effective Dat	e:	
Printed Cust	tomer Name	
Signature		
Effective Dat	e:	

RESOLUTIONS TO OPEN ACCOUNT (For Corporations)

Corporations (whether for profit, not for profit, municipal or otherwise), foundations, and other customers which have a governing body (e.g., a Board of Directors) are required to have such governing body adopt the resolutions set forth below, or its equivalent under applicable law, authorizing the opening of an account and to submit to KCG a Secretary's or Clerk's Certificate as set forth below certifying as to such resolutions. Alternatively, Customers may use their own form of authorizing resolution if acceptable to KCG.

CERTIFIED COPY OF RESOLUTIONS

I, being the duly appointed Secretary of the below-named corporation ("Corporation"), organized and existing under and by virtue of the laws of the State listed below, do hereby certify that the following Resolutions are true and complete copies of Resolutions adopted at a meeting of the Board of Directors of said corporation duly called and held on the date set forth below, at which a quorum was present and voting, that said Resolutions are not in conflict with the Charter and By-Laws of Corporation, that said Resolutions are reflected in the minutes of the Board of Directors, and that all agreements signed pursuant to said Resolutions shall be, continuously thereafter from the date they are executed, official records of the corporation:

BE IT RESOLVED that KCG is hereby designated as a Broker authorized to establish one or more accounts on behalf of Corporation for the purpose of trading in futures contracts, options forward contracts, commodities, and all related instruments and transactions, including securities, and that KCG is authorized to act on behalf of this corporation upon the written or oral direction of any officer hereof.

BE IT RESOLVED, that the President, any Vice President, the Secretary and the Treasurer of this Corporation, and each of them, are hereby authorized and directed to make, execute and deliver a Customer Agreement with KCG and any other documents required by KCG to open and maintain an account or accounts with KCG on behalf of this corporation.

BE IT RESOLVED, that any one of the following individuals is hereby authorized to enter orders for our accounts, to confirm the correctness of transactions, and to deal fully with KCG with respect to such accounts:

Name of Authorized Individual	Name of Authorized Individual
Name of Authorized Individual	Name of Authorized Individual
and that this authorization shall remain in effect Corporation of additions or deletions.	until such time as KCG receives WRITTEN NOTICE from th
Date	
Secretary Signature	Corporation Name
Secretary Name (Printed)	State of Incorporation
	Date Resolution Adopted

PARTNERSHIP ACCOUNT AGREEMENT

unde Cont	ersigned a tracts (as	ion of KCG carrying an account(s) in the name of are general partners, for the execution and clearance of orders involving the ps defined in the Customer Agreement) and in conjunction with the terms a we agree, represent and consent to the following:	ourchase and sale of Commodity	
1.		hall have full authority for the Account:	general partner(s) of the	
Parti	nership, s	shall have full authority for the Account:		
	(a)	To buy, sell and trade in Commodity Interests;		
	(b)	To deposit with and withdraw from the Account money, commodities, instruments, securities and other property, including withdrawals to or for the partner directing the sale, or of any partner;		
	(c)	To receive and acquiesce in the correctness of notices, confirmations, request of every kind;	s, demands and communications	
	(d)	To settle, compromise, adjust and give releases with respect to any and all controversies; and	claims, demands, disputes, and	
	(e)	To make agreements and take any other action relating to the Account and any	y of the foregoing matters.	
	partner	numeration of specific authority shall not in any way limit or affect any oth of the Partnership might otherwise have. If an independent party has been au KCG Power of Attorney agreement form must be attached (See page 22).		
2.	severally	eneral partner of the Partnership, whether now or subsequently admitted to y liable for any and all obligations arising out of the transactions in the Account ons of the Customer Agreement and all related documents signed on behalf of the	nt and is bound by all terms and	
3.	Agreem	ne death of any of the general partners, or in the event of any of the events listed tent, KCG is authorized to take action in regard to the Account as KCG in its so itself against any liability, damage or loss. Each general partner is responsible eath of any general partner and of any material change in the Partnership.	ele discretion, deems advisable to	
4.	and pro payment notice, t general	bunts which any general partner of the Partnership has with KCG whether indiversely therein, are pledged with and to KCG and shall be subject to a general to fany liability the account may have to KCG. At any time, in KCG discretender or call to any general partner, KCG may apply and transfer any or all partner's account to the Account in order to discharge all or any part of any delt in or by the Account.	lien and security interest for the etion and without prior demand, funds or other property in any	
5.	Each general partner is at least 21 years of age; the Partnership has authority to open the Account; and the transactions contemplated are not prohibited by the governing documents of the Partnership or applicable law. The Partnership is a duly organized and a validly existing partnership under the laws of the state in which it is formed.			
6.	In addition to the indemnities provided in the Customer Agreement, the general partners, the Partnership, and their respective successors and assigns will indemnify and hold harmless KCG, its agents, and their respective successors			

7. The authority granted herein is a continuing one and shall remain in full force and effect until KCG shall receive written notice of revocation or modification. This agreement in no way limits or restricts any rights which KCG may have under any other agreement with the Partnership or any general partner.

contained herein or in the Customer Agreement or in any other related document was not true and correct.

and assigns from any and all loss, damage or liability arising out of claims that actions or instructions of any general partner were not duly authorized by the Partnership or were incurred because at any time any representation or warranty

iting and signed by an authorized KCG officer. Furthermore, no waiver, implied from any course of dealing between KCG and you or from any nder this Agreement on any occasion(s).			
SIGNATURES OF ALL GENERAL PARTNER(S)			
Print Name			
Signature			
Date			
Print Name			
Signature			
Date			

<u>AUTHORIZATION TO OPEN ACCOUNT (For Limited Liability Companies)</u>

LLCs are required to have their board of managers or equivalent governing person(s) adopt the resolutions set forth below, or its equivalent under applicable law, authorizing the opening of an account and to submit to KCG a Secretary's or Clerk's Certificate as set forth below certifying as to such resolutions. Alternatively, Customers may use their own form of authorizing resolution if acceptable to KCG.

CERTIFIED COPY OF RESOLUTIONS

I, being the duly appointed Secretary, Manager and/or Member of the below-named LLC ("LLC"), organized and existing under and by virtue of the laws of the State listed below, do hereby certify that the following Resolutions are true and complete copies of Resolutions adopted at a meeting of the Board of Managers or Members of said LLC duly called and held on the date set forth below, at which a quorum was present and voting, that said Resolutions are not in conflict with the LLC Agreement of said LLC, that said Resolutions are reflected in the minutes of the LLC, and that all agreements signed pursuant to said Resolutions shall be, continuously thereafter from the date they are executed, official records of the LLC:

BE IT RESOLVED that KCG is hereby designated as a Broker authorized to establish one or more accounts on behalf of said LLC for the purpose of trading in futures contracts, options, forward contracts, commodities, and all related instruments and transactions, including securities, and that said Broker is authorized to act on behalf of this corporation upon the written or oral direction of any officer hereof.

BE IT RESOLVED, that the below-named officers, Managers, or Members of this LLC, and each of them, are hereby authorized and directed to make, execute and deliver a Customer Agreement with KCG and any other documents required by KCG to open and maintain an account or accounts with KCG on behalf of this LLC.

BE IT RESOLVED, that any one of the following individuals is hereby authorized to enter orders for our accounts, to confirm the correctness of transactions, and to deal fully with KCG with respect to such accounts:

Name of Authorized Individual	Name of Authorized Individual
Name of Authorized Individual	Name of Authorized Individual
and that this authorization shall remain in effect until sucadditions or deletions.	ch time as KCG receives WRITTEN NOTICE from this LLC
Date	
Secretary Signature	LLC Name
Secretary Name (Printed)	State of Organization
	Date Resolution Adopted

of

A copy of the current LLC Agreement and a complete list of all members with their mailing addresses must accompany this authorization.

FORM W-9

Dep	rm W-9 7. December 2000) artment of the Treasury rnal Revenue Service	Ide	Request for Tax ntification Number an		l	Give form to the requester. Do not send to the IRS.
be	Name (See Specific Instruc	tions on page 2).				
Please print or type	Business name, if different from	om above (See Specific Ins	tructions on page 2.)			
print	Check appropriate box:	Individual/Sole proprietor	□ □ Corporation □ □	Partnership	Other ▶	
ease]	Address (number, street, and	apt. or suite no.)		Requester's name and	d address (Option	al)
Pl	City, State, and ZIP code					
Par	rt I Taxpa	yer Identification N	umber (TIN)		List account nu	ımber(s) here (Optional)
ind (SS	er Your TIN in the approprividuals, this is your social N). However, for a resident oprietor, or disregarded of	security number lent alien, sole	Social security number			
ins em hav No the	ployer Identification number a number, See How To te: If the account is in mochart on page 2 for guidelinter	other entities, it is your er (EIN). If you do not Get a TIN on page 2. re than one name, see	Or Employer identification numb	er	Part II	For U.S. Payees Exempt From Backup Withholding (See the instructions on page 2)
	rt III Certifica				1	
	der Penalties of perjury	•	t tavnavar identification n	umber (or I em su	oiting for a nu	mber to be issued to me), and
2.	I am not subject to ba Internal Revenue Service	ackup withholding be be that I am subject to	cause: (a) I am exempt fr	om backup withh a result of a failur	olding, or (b)	I have not been notified by the linterest or dividends, or (c) the
	I am a U.S. person (inc	· ·	•			
bac doe ind	kup withholding becauses not apply. For monividual retirement arran	se you have failed to tgage interest paid, a gement (IRA), and g	report all interest and divequisition or abandonmen	idends on your ta t of secured prope than interest and	ax return. For erty, cancellat	hat you are currently subject to r real estate transactions, item 2 ion of debt, contributions to ar you are not required to sign the
Sig He					Dat	te ►
			Cat No. 10231X			

FORM W-8

Form W-8BEN

Certificate of Foreign Status of Beneficial Owner for United States Tax Withholding

(Rev. February 2006)	ioi oilitea otates		OMB No. 1545-1621
Department of the Treasury Internal Revenue Service	Section references are to the Internal ReveGive this form to the withholding age		
Do not use this form for:			Instead, use Form:
	r U.S. person, including a resident alien individual at income is effectively connected with the conduct		W-9
of a trade or business	s in the United States		
	a foreign simple trust, or a foreign grantor trust (se international organization, foreign central bank of		
foreign private founda	ition, or government of a U.S. possession that rece	ived effectively connected income of	rthatis
	ility of section(s) 115(2), 501(c), 892, 895, or 1443(bould use Form W-8BEN if they are claiming treaty b		
claim they are a foreign	person exempt from backup withholding.	enems of are providing the form only	, 10
	n intermediary or additional exceptions.		W-8IMY
	cation of Beneficial Owner (See instructi	one \	
	or organization that is the beneficial owner		try of incorporation or organization
			-,
3 Type of beneficial	owner: Individual Corpora	tion Disregarded entity	Partnership Simple trust
Grantor trust	☐ Complex trust ☐ Estate	☐ Government ☐	International organization
Central bank of		foundation	
4 Permanent reside	nce address (street, apt. or suite no., or rural route)	. Do not use a P.O. box or in-care	-of address.
City or town state	e or province. Include postal code where appropria	te	Country (do not abbreviate)
Only of town, state	or province, include postar code where appropria		Country (do not appreviate)
5 Mailing address (i	f different from above)		
City or town, state	e or province. Include postal code where appropria	te.	Country (do not abbreviate)
6 U.S. taxpayer ide	ntification number, if required (see instructions)	7 Foreign tax id	Lentifying number, if any (optional)
	☐ SSN or □	ΓIN □ EIN □	
8 Reference numbe	r(s) (see instructions)		
Part II Claim	of Tax Treaty Benefits (if applicable)		
9 I certify that (che	ck all that apply):		
a The beneficial own	ner is a resident of	within the meaning of the income tax treaty	between the United States and that country.
	e U.S. taxpayer identification number is stated on li	,	
	owner is not an individual, derives the item (or iter eets the requirements of the treaty provision dealing		
	owner is not an individual, is claiming treaty benef business of a foreign corporation, and meets qualif		
e 🗌 The beneficial	owner is related to the person obligated to pay the	e income within the meaning of secti	ion 267(b) or 707(b), and will file
	the amount subject to withholding received during	,	
	d conditions (if applicable—see instructions): The b		
	n line 9a above to claim a% rate of the stream of the tream of the tream.		
Explain the reason	is the penelicial owner meets the terms of the trea	ty article:	
	al Principal Contracts		
	ed or will provide a statement that identifies those r th the conduct of a trade or business in the United		
Part IV Certific		States. I agree to update this staten	nent as required.
Under penalties of perjury,	I declare that I have examined the information on this forn	n and to the best of my knowledge and b	elief it is true, correct, and complete. I
further certify under penalti 1 I am the beneficial owner	es of perjury that: (or am authorized to sign for the beneficial owner) of all th	ne income to which this form relates.	
2 The beneficial owner is n	ot a U.S. person,		tatas (b) affectively asymptotical but is
not subject to tax under ar	form relates is (a) not effectively connected with the cond income tax treaty, or (c) the partner's share of a partners	hip's effectively connected income, and	tates, (b) effectively conflected but is
	r barter exchanges, the beneficial owner is an exempt fore s form to be provided to any withholding agent that has o		of which I am the beneficial owner or
	can disburse or make payments of the income of which I		
Ciam Harr			
Sign Here Sign	ature of beneficial owner (or individual authorized to sign f	or beneficial owner) Date (MM-DD-	YYYY) Capacity in which acting
For Paperwork Reduct	ion Act Notice, see separate instructions.	Cat. No. 25047Z	Form W-8BEN (Rev. 2-2006)

THIS DISCRETIONARY ACCOUNT TRADING AUTHORIZATION AND SUBSEQUENT ACKNOWLEDGMENTS ARE TO BE COMPLETED ONLY IF CUSTOMER IS REPRESENTED BY AND ACTING THROUGH AN ACCOUNT MANAGER/COMMODITY TRADING ADVISOR.

Customers that authorize other persons to trade in futures contracts and option contracts on their behalf must either (1) complete and execute the Trading Authorization set forth below or (2) furnish KCG with such other authorization acceptable to KCG under which Customer gives trading authority over Customer's Account to a third party.

DISCRETIONARY ACCOUNT TRADING AUTHORIZATION

To: KCG

The undersigned Customer ("Customer") hereby authorizes the below-named Account Manager as Customer's agent and attorney-in-fact to buy and sell (including short sales) securities, futures contracts, options or futures, commodities, forward contracts, and/or similar or related contracts on margin or otherwise in accordance with your terms and conditions for Customer's account and risk in Customer's name or number on your books. Customer hereby indemnifies KCG and its directors, officers, employees and agents from and against all liability arising directly or indirectly from following Account Manger's instructions, and will pay KCG promptly on demand any losses arising from such trades and any debit balance resulting there from.

KCG is authorized to follow the instructions of the aforesaid agent in every respect concerning Customer's account with you, and to make transfers and/or deliveries of securities and payment of monies to such agent or as such agent may order and direct. In all matters necessary or incidental to the conduct of the account of Customer, the aforesaid agent is authorized to act for customer in the same manner and with the same force and effect as Customer might or could do.

Customer hereby ratifies and confirms any and all transactions with KCG heretofore or hereafter made by the aforesaid agent on behalf of or for the account of Customer. This authorization is in addition to (and in no way limits or restricts) any rights KCG may have under any other agreement between Customer and KCG.

Account Manager is not authorized to withdraw from Customer's account any monies, securities or any property either in Customer's name or otherwise unless such withdrawal or payment is specifically authorized in writing by Customer. However, Customer authorizes KCG to deduct from Customer's account and pay Account Manager's fees upon presentation of a bill therefore. Customer acknowledges that KCG has no responsibility to determine or verify the accuracy of any such bills.

This authorization is a continuing one and shall remain in full force and effect until revoked by Customer by a written notice to KCG, but such revocation shall not affect any liability in any way resulting from transactions initiated prior to the receipt of such notice of revocation by you. This authorization shall inure to the benefit of your present firm and of any successor firm or firms irrespective of any change or changes at any time in personnel thereof or for any cause whatsoever, and of the assigns of your present firm or any successor firm.

NAME OF ACCOUNT MANAGER/AGENT AND ATTORNEY-IN-FACT	
ADDRESS OF ACCOUNT MANAGER/AGENT	AND ATTORNEY-IN-FACT
NAME OF EMPLOYER AND OCCUPATION/T	TITLE OF ACCOUNT MANAGER
CUSTOMER By:	
Signature	Printed Name of Signatory
Date	Title of Signatory
By: Signature	Printed Name of Signatory
 Date	Title of Signatory
	<i>C</i> ,

ACCOUNT MANAGER ACKNOWLEDGMENT

The undersigned Account Manager, who is authorized to exercise discretion and to act on behalf of Customer with respect to Customer's account, acknowledges and agrees as follows:

- 1. Account Manager is duly authorized and empowered to execute and deliver this Acknowledgment and to effect transactions through KCG as contemplated by the foregoing Customer Agreement and accompanying agreements and disclosures.
- 2. Account Manager has reviewed the registration requirements of the Commodity Exchange Act and National Futures Association pertinent to commodity pool operators and commodity trading advisors and warrants that it is in compliance with such requirements with respect to Customer's account as applicable.
- 3. Account Manager represents that it has provided to Customer a disclosure document concerning Account Manager's trading advice or a written statement explaining why Account Manager is not required under applicable law to provide such a disclosure document to Customer: (check one)

□ Account Manager has provided a disclosure document to Customer

	Account	Manager	is not required	to provide	a disclosure	document	to Customer	for the	following	reason:
Accour	nt Manager									
Printed	Name									
By: Signatu										
Title										
Date										

NOTICE OF YOUR FINANCIAL PRIVACY RIGHTS

WHAT DOES KCG Americas LLC DO WITH YOUR PERSONAL INFORMATION?

Why?	Financial companies choose how they share your personal information. Federal law gives consumers the right to limit some but not all sharing. Federal law also requires us to tell you how we collect, share, and protect your personal information. Please read this notice carefully to understand what we do.
What?	The types of personal information we collect and share depend on the product or service you have with us. This information can include: Social Security number and Income Account Balances and Transaction History Risk Tolerance and Settlement Instructions When you are no longer our customer, we continue to share your information as described in this notice.
How?	All financial companies need to share customer's personal information to run their everyday business. In the section below, we list the reasons financial companies can share their customer's personal information; the reasons KCG Americas LLC chooses to share; and whether you can limit this sharing.

Reasons we can share your personal information	Does KCG Americas LLC share?	Can you limit this sharing?
For our everyday business purposes— such as to process your transactions, maintain your account(s), respond to court orders and legal investigations, or report to credit bureaus	Yes	No
For our marketing purposes— to offer our products and services to you	Yes	No
For joint marketing with other financial companies	No	NA
For our affiliates' everyday business purposes – information about your transactions and experiences	Yes	No
For our affiliates' everyday business purposes—information about your creditworthiness	Yes	No
For our affiliates to market to you	Yes	No
For nonaffiliates to market to you	No	NA

Questions?

Call 201-222-9400 or go to http://www.kcg.com

Who we are			
Who is providing this notice?	KGC Americas LLC ("KCGA")		
What we do			
How does KCGA protect my personal information?	To protect your personal information from unauthorized access and use, we use security measures that comply with federal law. These measures include computer safeguards and secured files and buildings.		
How does KCGA collect my personal information?	We collect your personal information, for example, when you Open an account or Direct us to buy/sell securities Direct us to wire funds or Direct us to deliver securities Direct us to buy/sell futures		
Why can't I limit all sharing?	 Federal law gives you the right to limit only sharing for affiliates' everyday business purposes—information about your creditworthiness affiliates from using your information to market to you sharing for nonaffiliates to market to you State laws and individual companies may give you additional rights to limit sharing. 		
Definitions			
Affiliates	Companies related by common ownership or control. They can be financial and nonfinancial companies. For a complete list, please visit http://www.kcg.com and click on the		
	Operating Subidiaries tab		
Nonaffiliates	Companies not related by common ownership or control. They can be financial and nonfinancial companies.		
	These include clearing and settlement agents as well as third party vendors that KCGA engages to provide with you products and services		
Joint marketing	A formal agreement between nonaffiliated financial companies that together market financial products or services to you.		
	■ KCGA does not engage in joint marketing		

Other important information

If you have any questions regarding this Privacy Policy or our privacy-related practices, please contact us by email to privacy@kcg.com or contact us by mail at KCG Holdings, Inc. Legal Department, Privacy, 545 Washington Blvd, 3rd Floor, Jersey City, NJ 07310.

FUTURES ACCOUNT AGREEMENT CHECKLIST

FOR ALL ACCOUNTS:	<u>Page</u>	Signature/fill in Page
• Customer Application	4	4, 5, 6
• Customer Agreement	7	11
• Subordination Agreement (optional)	11	12
• Acknowledgement of Receipt of Risk Disclosure Statements	12	12
• Consent to Cross Transactions	13	13
• Consent to Electronic Transmission of Statements	13	13
• Hedge Designation (if applicable)	14	14
Consent to Jurisdiction	15	15
• Arbitration Agreement (optional)	16	16
• Debit Authorization	17	17
• Resolutions for Corporations and LLC (if applicable) (Resolutions to Open Account, Authorization to Open Account)	18, 21	18, 21
• Partnership Account Agreement (if applicable)	19	20
• IRS Form W-9	22	22
• IRS FORM W-8 (if applicable)	23	23
FOR DISCRETIONARY ACCOUNTS ONLY:		
• Trading Authorization	24	24
Account Manager Acknowledgement	25	25