

NYSE Arca Equities, Inc.

Equity Trading Permit Application and Contracts

TABLE OF CONTENTS

	Page
Application Process	3
Application Checklist & Fees	4
Explanation of Terms	5
Application for Equity Trading Permit (Sections 1-6)	7 - 12
Clearing Letter of Consent for Non-Self Clearing Applicants (Section 7)	13
NYSE Arca, LLC User Agreement (Section 8)	15 - 18
Archipelago Securities TM Routing Agreement (Section 9)	19 – 20
Individual Registration (Section 10)	21
Designated Examining Authority (DEA) Applicant ETP (Section 11)	23

APPLICATION PROCESS

Filing Requirements

Prior to submitting the Application for Equity Trading Permit (“ETP”), an Applicant Broker-Dealer must file a Uniform Application for Broker-Dealer Registration (Form-BD) with the Securities and Exchange Commission and register with the FINRA Central Registration Depository (“Web CRD®”).

Checklist

Applicant Broker-Dealer must complete and submit all applicable materials addressed in the Application Checklist (page 4):

NYSE Arca Equities, Inc.
Attn: Client Relationship Services
100 South Wacker Drive, Suite 1800
Chicago, IL 60606

Note: All application materials sent to NYSE Arca will be reviewed by NYSE Arca’s Client Relationship Services (“CRS”) Department for completeness. The applications are then submitted to FINRA who performs the application approval recommendation. All applications are deemed confidential and are handled in a secure environment. CRS or FINRA may request applicants to submit documentation in addition to what is listed in the Application Checklist during the application review process, pursuant to NYSE Arca Equities Rule 2.3. If you have questions on completing the application, you may direct them to: Client Relationship Services: Email: crs@nyx.com or (888) 689-7739 option 3.

Application Process

- Following submission of the Application for Equity Trading Permit, fees and supporting documents to NYSE Arca, Inc. (“NYSE Arca”), the application will be reviewed for accuracy and regulatory or other disclosures. NYSE Arca will submit the application to FINRA for review and approval recommendation; NYSE Arca Compliance and Regulation complete the final review and approval.
- Applicant Broker Dealer is required to consult with an NYSE Relationship Manager or CRS Account Manager to determine the most beneficial connectivity option. NYSE Arca will then coordinate the connectivity between the Applicant Broker Dealer and the Exchange.
- If review of Statutory Disqualification Disclosure information and/or a background investigation indicates that the Applicant Broker-Dealer has an associated person(s) with a possible statutory disqualification, NYSE Arca will contact the representative of the Applicant Broker-Dealer to discuss the statutory disqualification process.
- If it appears that the Applicant Broker-Dealer has outstanding debt, civil judgment actions and/or regulatory disciplinary actions, the Applicant Broker-Dealer will be contacted by NYSE Arca for further information.
- Applicants who have completed and returned all documents without indication of a statutory disqualification, outstanding debt, civil judgment actions and/or regulatory disciplinary actions will be presented to NYSE Arca for approval or disapproval without delay.

✓ Applicant Broker-Dealer will be subject to disciplinary action if false or misleading answers are given pursuant to the Application for Equity Trading Permit.

- NYSE Arca does not accept fingerprint cards. Fingerprint cards must be submitted directly to FINRA within 30 days of filing the Form U4. The fingerprint cards must be cleared by the FBI for individuals who seek to register with NYSE Arca or be approved by NYSE Arca. Firms may request FINRA-approved fingerprint cards through the Gateway Call Center at: (301) 590-6500. Fingerprint cards should be sent directly to: For Regular U.S. Mail: FINRA, Registration and Disclosure Department, P.O. Box 9495, Gaithersburg, MD 20898-9495. P.O. Boxes will not accept courier or overnight deliveries. For Express/Overnight Mail Delivery: FINRA, Registration and Disclosure Department, 9509 Key West Avenue, Rockville, MD 20850. If a phone number is required for the recipient, provide: (301) 590-6500. Your firm should receive the FBI search results in the “Fingerprint Status Received from FBI Notice Queue” within three business days after the card is sent to the FBI. Additional information regarding the submission of fingerprints to Web CRD may be obtained on the FINRA Web site: <https://firms.finra.org/webcrd>.
- NYSE Arca will promptly notify the Applicant Broker-Dealer, in writing, of their Membership decision.
- Once connectivity is established, your Relationship Manager or CRS Account Manager will inform you of your ability to trade.

In the event an Applicant Broker-Dealer is disapproved by NYSE Arca, the Applicant Broker-Dealer has an opportunity to be heard upon the specific grounds for the disapproval, in accordance with the provisions of NYSE Arca Rule 10.13. A disapproved applicant desiring to be heard must, within thirty (30) calendar days of the date upon which the Corporation's decision was mailed to the applicant, file a petition in accordance with the provisions of Rule 10.13

APPLICATION CHECKLIST & FEES¹

DOCUMENTATION CHECKLIST FOR NON-NYSE ARCA DEA BROKER-DEALER APPLICANTS

- Application for Equity Trading Permit
 - Sections 1-6, and 8-10 are MANDATORY for all applicants
 - Section 7 if applicant is not self-clearing
 - If self-clearing, a Regional interoffice Operations (RIO) letter will need to be supplied after the Broker-Dealer has been approved.*
- Form BD, including Schedules & Disclosure Reporting pages must be up to date and accurate on FINRA's WebCRD®
- A Form U-4 and Fingerprint cards for the following individuals needs to be submitted directly to the FINRA, if not currently available on Web CRD®²
 - Direct/Indirect Owners, Allied Persons, and Approved Persons as listed on Form BD Schedules A & B
 - Designated supervisors and principals
- Financial Documentation
 - Four (4) Most Recent FOCUS Reports³ and the Most Recent Audited Financial Statements, if applicable
 - Most Recent Balance Sheet and Capital Computation
 - Six Month Profit/Loss Projection
- All examination reports and corresponding responses from the Applicant Broker-Dealer for the last two exam reports
- Organizational Documents: Articles of Incorporation and Bylaws; Partnership Agreement; Limited Liability Company ("LLC") Agreements; Operating Agreement; or similar documentation

DOCUMENTATION CHECKLIST FOR NON-NYSE ARCA DEA BROKER-DEALER APPLICANTS

- Application for Equity Trading Permit
 - Sections 1-6, and 8-10 are MANDATORY for all applicants
 - Section 7 if applicant is not self-clearing
 - If self-clearing, a Regional interoffice Operations (RIO) letter will need to be supplied after the Broker-Dealer has been approved.*
- Form BD, including Schedules & Disclosure Reporting pages must be up to date and accurate on FINRA's WebCRD®
- A Form U-4 and Fingerprint cards for the following individuals needs to be submitted directly to the FINRA, if not currently available on Web CRD®²
 - Direct/Indirect Owners, Allied Persons, and Approved Persons as listed on Form BD Schedules A & B
 - Designated supervisors and principals
 - All Authorized Traders
- Financial Documentation
 - Four (4) Most Recent FOCUS Reports³ and the Most Recent Audited Financial Statements, if applicable
 - Most Recent Balance Sheet and Capital Computation
 - Six Month Profit/Loss Projection
 - Subordination Agreements, if applicable
- Proprietary Accounts of Introducing Broker-Dealers (PAIB) Agreements, if applicable
- All examination reports and corresponding responses from the Applicant Broker-Dealer for the last two exam reports
- Organizational Documents: Articles of Incorporation and Bylaws; Partnership Agreement; Limited Liability Company ("LLC") Agreements; Operating Agreement; or similar documentation
- Copy of Written Supervisory Procedures⁴, Anti-Money Laundering Procedures, and Insider Trading Act Procedures (if separate)

Note: All ETP Holders are responsible for maintaining a list of all Authorized Traders, and such list must be made available to NYSE Arca upon request as required by NYSE Arca Equities Rule 7.30(a).

¹ For a list of fees, please review the "Schedule of Fees and Charges for Exchange Services" found at http://www.nyse.com/pdfs/NYSEArca_Equities_Fees.pdf. Additional fees to those listed within this application may apply.

² A \$125 Investigation Fee may be required for each Control Person, Allied Person, Approved Person, Designated Supervisor or Authorized Trader (DEA Applicants Only) for whom required information is not available on Web CRD®. Please make checks payable to NYSE Arca, Inc

³ Applicants must demonstrate that they have current net capital of 140% of their minimum net capital requirement or \$20,000 in excess of their minimum dollar net capital requirement, **whichever is greater**. If the Broker-Dealer has reported net losses for the period reviewed, the Firm's financial statements must demonstrate that its excess net capital can withstand six (6) consecutive months of average losses. Applicant Broker-Dealers that do not have the requested financial information available are required to submit Pro Forma Financial statements reflecting the Balance Sheet and Profit & Loss Statement detail for each month for the most recent six (6) months or since inception, whichever is less.

⁴ Market Maker applicants must include, but are not limited to, the following NYSE Arca Equity Rules: 6.3 (Prevention of the Misuse of Material, Nonpublic Information), 6.17 (Anti-Money Laundering Compliance Program), 6.18 (Supervision), and 7.20 – 7.25 (Market Makers).

EXPLANATION OF TERMS

For purposes of this application, the following terms shall have the following meanings:

Applicant Broker-Dealer – is the Broker-Dealer organization applying for an Equity Trading Permit or amending this form.

Associated Person - a person who is a partner, officer, director, member of a LLC, trustee of a Business Trust, or employee of an ETP Holder or any person directly or indirectly controlling, controlled by or under common control with an ETP Holder.

Authorized Trader – a person who may submit orders to NYSE Arca, LLC's trading facilities on behalf of his or her ETP Holder or Sponsored Participant.

Clearing Services - a Broker-Dealer who receives and executes customers' instructions, prepares trade confirmations, sends the money related to the trades, arranges for the physical movement of securities, and shares responsibility with an introducing broker-dealer for compliance with regulatory requirements.

Control – (as defined on Form-BD) the power, directly or indirectly, to direct the management or policies of a company, whether through ownership of securities, by contract or otherwise. Any person that (1) is a director, general partner or officer exercising executive responsibility (or having similar status or functions); (2) directly or indirectly has the right to vote 25% or more of a class of a voting security or has the power to sell or direct the sale of 25% or more of a class of voting securities; or (3) in the case of a partnership, has the right to receive upon dissolution, or has contributed, 25% or more of the capital, is presumed to control that company.

Central Registration Depository System (“Web CRD®”) – A centralized electronic registration system maintained by FINRA which provides information on registered representatives and principals for members of participant organizations. This database contains employment history, exam scores, licensing information, disciplinary actions, fingerprint results, and other related registration information. NYSE Arca, Inc. is a participant of this system.

Designated Examining Authority (“DEA”) – the SEC will designate one Self-Regulatory Organization (“SRO”) to be a Broker-Dealer's examining authority, when the Broker-Dealer is a Member or ETP Holder of more than one SRO. Every Broker-Dealer is assigned a DEA, who will examine the Broker-Dealer for compliance with financial responsibility rules.

Designated Supervisor – refers to any person that is a partner, director, or officer exercising executive responsibility (or having similar status or functions) for supervising Authorized Trader(s) (“AT”) (as defined in NYSE Arca Equities Rule 1.1(g)).

Direct Owners/Executive Officers – Allied Persons and Approved Persons, as those terms are defined by NYSE Arca Equities Rules 1.1(c) and 1.1(d), respectively, and generally refer to (1) a director, general partner or officer exercising executive responsibility (or having similar status or function); or (2) directly or indirectly has the right to vote 5% or more of a class of voting security or has the power to sell or direct the sale of 5% or more of a class of voting securities; (3) is entitled to receive 5% or more of the net profits; (4) in the case of a partnership, all general partners and those limited and special partners that have the right to receive upon dissolution or have contributed, 5% or more of the capital; or (5) in the case of a LLC, those members that have the right to receive upon dissolution, or have contributed, 5% or more of the LLC's capital, and if managed by elected managers, all elected managers.

ETP or ETP Holder– an Equity Trading Permit issued by the Corporation for effecting approved securities transactions on the Corporation's trading facilities. An ETP may be issued to a Sole Proprietor, Partnership, Corporation, LLC or other organization which is a registered Broker or Dealer, pursuant to Section 15 of the Securities Exchange Act of 1934, as amended, and which has been approved by the Corporation.

Financial Arrangement – (1) the direct financing of an ETP Holder's dealings upon the Exchange; (2) any direct equity investment or profit sharing arrangement; or (3) any consideration over the amount of \$5,000.00 including, but not limited to, gifts, loans, annual salaries or bonuses.

Market Maker -is obligated to maintain continuous two-sided Q Orders in those securities in which the Market Maker is registered to trade, pursuant to NYSE Arca Equities Rule 7.23(a).

Market Maker Authorized Trader (“MMAT”) – an authorized trader who performs market-making activities pursuant to Rule 7, on behalf of a Market Maker.

NYSE Arca, Inc. (“NYSE Arca” or the “Corporation”) – a Delaware corporation as described in the Corporation's Certificate of Incorporation and Bylaws. NYSE Arca is a national securities exchange as that term is defined by Section 6 of the Securities Exchange Act of 1934, as amended. NYSE Arca, Inc. is the Self-Regulatory Organization for NYSE Arca, LLC

NYSE Arca, LLC – The equities marketplace and a trading facility of NYSE Arca, Inc.

NYSE Arca Equities – NYSE Arca Equities, Inc. (a wholly owned subsidiary of NYSE Arca, Inc.).

Primary Business – refers to greater than 50% of the ETP Holder's business.

Self-Regulatory Organization (“SRO”) - each exchange or national securities association is an SRO. Each SRO must have rules that provide for the expulsion, suspension and other discipline of member Broker-Dealers for violation of the SRO's rules.

NYSE Arca Equities, Inc.

Equity Trading Permit Application and Clearing Letter of Consent

SECTION 1 – ORGANIZATIONAL PROFILEDate: _____ SEC #: _____ CRD #: _____ MPID: _____
(If NASDAQ Participant) Application Amendment**GENERAL INFORMATION**

Name of Applicant Broker-Dealer: _____

Business Address: _____

City: _____ State: _____ Zip Code: _____

Business Phone: _____ Fax: _____

Contact Name: _____ Title: _____

Phone: _____ Fax: _____

Email Address: _____

TYPE OF ORGANIZATION Corporation Limited Liability Company Partnership Sole Proprietor**TYPE OF BUSINESS TO BE CONDUCTED WITH EQUITY TRADING PERMIT (Check all that apply)** Market Maker* Public Customer Business Clearing Services Proprietary Trading
 Other _____

* Please also complete Application for Market Maker/Odd Lot Dealer Registration

OTHER BUSINESS ACTIVITIES CONDUCTED BY APPLICANT BROKER DEALER (Check all that apply) Investment Banking Public Customer Business Options Market Making
 Proprietary Trading Other _____**OTHER SELF-REGULATORY ORGANIZATION MEMBERSHIPS (Check all that apply)** American Stock Exchange (AMEX) Boston Stock Exchange (BSE)
 Chicago Board Options Exchange (CBOE) Chicago Stock Exchange (CHX)
 National Stock Exchange (NSX) International Securities Exchange (ISE)
 Financial Industry Regulatory Authority, Inc. (FINRA) New York Stock Exchange (NYSE)
 Philadelphia Stock Exchange (PHLX) BATS (BATS)**APPLICANT'S DESIGNATED EXAMINING AUTHORITY ("DEA")** NYSE Arca, Inc. (NYSE Arca / NYSE Arca Equities) Other _____

SECTION 2 - MEMBERSHIP AGREEMENT

Applicant Broker-Dealer agrees to abide by the Bylaws and Rules of NYSE Arca Equities, Inc., as amended from time to time, and all circulars, notices, interpretations, directives or decisions adopted by NYSE Arca Equities, Inc.

Applicant Broker-Dealer authorizes any SRO, commodities exchange, governmental agency or similar entity to furnish to NYSE Arca, upon its request, any information that such person may have concerning the ability, business activities, and reputation of Applicant Broker-Dealer or its associated persons, and releases such person or entity from any and all liability in furnishing such information. Applicant Broker-Dealer authorizes NYSE Arca to make available to any governmental agency, SRO, commodities exchange or similar entity, any information it may have concerning the Applicant Broker-Dealer or its associated persons, and releases NYSE Arca from any and all liability in furnishing such information.

Applicant Broker-Dealer acknowledges its obligation to update any and all information contained in any part of this application, including termination of membership with another SRO, which may cause a change in the Applicant Broker-Dealer's DEA. It is understood that in that event, additional information may be required by NYSE Arca.

Applicant Broker-Dealer

Signature of Authorized Officer, Partner, Managing Member, or Sole Proprietor

Date

Print Name of Authorized Officer, Partner, Managing Member, or Sole Proprietor

Title

SECTION 3 – FINANCIAL DISCLOSURE**FINANCIAL STATEMENT**

Copies of the required financial items as noted on the checklist including: the four (4) most recent FOCUS Reports⁵ and most recent Audited Financial Statements, and all examination reports and corresponding responses.

SOURCE OF CAPITAL

Explain the source of Applicant Broker-Dealer's Capital

PROPRIETARY ACCOUNTS OF INTRODUCING BROKER-DEALERS (PAIB)

Do you hold a Proprietary Account as an Introducing Broker-Dealer (PAIB) Yes No

*If Yes: An introducing Broker-Dealer must notify its DEA in writing when it has entered into a PAIB Agreement with a clearing Broker-Dealer regarding the net capital treatment of assets held in proprietary accounts. Assets (cash and securities) held in trading accounts without a PAIB Agreement are considered to be non-allowable in the computation of net capital under SEC Rule 15c3-1. If NYSE Arca is your DEA, please enclose a copy of all PAIB Agreements you have entered into with a clearing broker-dealer.

SUBORDINATED LOANS

Have any subordinated loans been made to Applicant Broker-Dealer? Yes (Explain below) No

FINANCIAL OR CONTROLLING INTERESTS

Does the Applicant Broker-Dealer have a financial or controlling (as defined in Form-BD) interest (through direct or indirect stock or bond ownership, through outstanding loans, or otherwise) in any organization engaged in a securities, financial or related business?

Yes (Explain below) No

FINANCIAL ARRANGEMENT

Does the Applicant Broker-Dealer have a financial arrangement with any other Broker-Dealer?

Yes (Explain below) No

Type of Arrangement: Direct Equity Investment Any consideration over \$5,000
 Profit Sharing Direct Financing
 Other _____

Terms of Arrangement (include the names of all participants in the arrangement, and the nature and terms of the arrangement):

OUTSTANDING DEBT (Check all that apply)

Does the Applicant Broker-Dealer owe money to any of the following?

- Any NYSE Arca member or member organization or NYSE Arca ETP Holder
- Any other national securities or commodities exchange or national securities association
- Any member of any other national securities or commodities exchange or national securities association

Explain to whom the money is owed and the dollar amount. Attach a copy of arrangements made for repayment of this debt and evidence of an agreement of repayment.. _____

No, the Applicant Broker-Dealer does not owe money to any of the above referenced persons or entities.

⁵ Applicant Broker-Dealers that do not have the requested financial information available are required to submit Pro Forma Financial statements for the most recent six (6) months or since inception, whichever is less.

SECTION 4 – DIRECT OWNERS / INDIRECT OWNERS / EXECUTIVE OFFICERS

Applying As: **ALLIED PERSON** **APPROVED PERSON**

Full Name: _____ Title: _____ CRD #: _____

User: _____

Business Address: _____

Corporate Form: _____

State of Incorporation: _____

Type of User: ETP Holder
(Check one) Sponsored Participant

Telephone: _____ Primary Contact: _____

Fax: _____ Email: _____

NYSE Arca will provide User with services pursuant to the User Agreement General Terms and Conditions, which are attached hereto and incorporated herein by reference. The following Agreement will be incorporated herein by reference, if the User has initialed the space below.

Routing Agreement (Required for ETP Holders or Sponsored Participants that elect to route orders through Archipelago Securities, LLC, a registered broker-dealer and facility of NYSE Arca, Inc., to other market centers and Broker-Dealers. By initialing the space provided, User agrees to be bound by the Archipelago Securities Routing Agreement and to pay the requisite fees, if any, for order routing.)

In witness whereof, the parties hereby cause this User Agreement to be executed by their duly authorized representatives. Signature on this cover sheet is in lieu of and has the same effect as signature on each page of the attached documents.

Accepted on behalf of User:

Accepted on behalf of NYSE Arca, Inc.:

(Print Company Name)

By (Signature): _____

By (Signature): _____

Name: _____

Name: _____

Title: _____

Title: _____

Date: _____

Date: _____

With Notices To:

User Name: _____

NYSE Arca, Inc.

Contact Name: _____

Attention: Client Relationship Services

Address: _____

100 S. Wacker Drive, Suite 1800

City, State, Zip: _____

Chicago, IL 60606

SECTION 4 - NYSE ArcaSM USER AGREEMENT (CONTINUED)

Provided that User is an authorized ETP Holder (as defined herein) or a Sponsored Participant (as defined herein) in good standing with NYSE Arca and has paid the requisite fees, NYSE Arca will provide User with access pursuant to these general terms and conditions, which User hereby acknowledges and accepts. User agrees to abide by these general terms and conditions and be bound by the Certificate of Incorporation, Bylaws, Rules and Procedures of NYSE Arca Equities, as amended from time to time, ("NYSE Arca Equities Rules") with respect to NYSE Arca.

For purposes of this Agreement, an "ETP" shall refer to an Equity Trading Permit issued by NYSE Arca Equities for effecting approved securities transactions on NYSE Arca. An "ETP Holder" shall refer to a Sole Proprietorship, Partnership, Corporation, LLC or other organization in good standing that has been issued an ETP in accordance with NYSE Arca Equities Rules. A Sponsored Participant shall refer to a person that has entered into a sponsorship arrangement with an ETP Holder (a "Sponsoring ETP Holder") as described in Section 1(e) below. An Authorized Trader shall refer to a person authorized to submit orders to NYSE Arca on behalf of his or her User. As used in this Agreement, the requirement that a User "comply with NYSE Arca Equities Rules" or "act in compliance with NYSE Arca Equities Rules" (or such other similar phrases) shall mean, with respect to a Sponsored Participant, that such Sponsored Participant shall comply with NYSE Arca Equities Rules as if it were an ETP Holder.

1. RIGHTS AND OBLIGATIONS.

(a) NYSE Arca, LLC ("NYSE Arca"). Pursuant to the terms and conditions of this User Agreement, NYSE Arca grants the User a personal, non-exclusive, non-transferable right to access NYSE Arca solely for the intended purpose and only in accordance with the then-current NYSE Arca Equities Rules. For purposes of this User Agreement, the "intended purpose" is to place orders with NYSE Arca for execution and to receive information from NYSE Arca about such orders. The User is solely and exclusively responsible for any hardware, software, communication equipment, communication services, information formatting requirements or other items or services necessary for accessing and using NYSE Arca.

(b) Restrictions on Use; Security. User may not sell, lease, furnish or otherwise permit or provide access to NYSE Arca or any information or data made available therein to any other entity or to any individual that is not User's employee, customer or agent or a User's Sponsored Participant. User accepts full responsibility for its employee's, customers', and agent's use of NYSE Arca, including any Sponsored Participants' use, which use must comply with NYSE Arca Equities Rules and the User's obligations under this User Agreement. User will take reasonable security precautions to prevent unauthorized use of or access to NYSE Arca, including unauthorized entry of information into NYSE Arca, or the information and data made available therein. User understands and agrees that User is responsible for any and all orders, trades and other messages and instructions entered, transmitted or received under identifiers, passwords and security codes of Authorized Traders, and for the trading and other consequences thereof.

(c) User Information. User hereby grants to NYSE Arca a perpetual, non-exclusive, world-wide, irrevocable, royalty-free, fully-paid-up license to use, reproduce, display, compile and modify the information and data supplied by User to NYSE Arca, including without limitation, information or data of or related to User's customers and agents. User represents and warrants that, with respect to such information and data (i) User owns or has sufficient rights in and to such information and data to authorize NYSE Arca to perform all of its obligations under this User Agreement with respect thereto and that may be required for User's or NYSE Arca's use of such information, (ii) use or delivery of such information by User or NYSE Arca will not violate the proprietary rights (including, without limitation, any privacy rights) of any party, and (iii) use or delivery of the information by User will not violate any applicable law or regulation.

Notwithstanding the foregoing, unless otherwise required by law, regulation, or governmental authority, or as otherwise agreed to by User, NYSE Arca shall not make information and data supplied by User available outside of the NYSE Euronext group of companies (other than to their directors or professional advisors pursuant to a non-disclosure agreement) in a manner that would reasonably be expected to directly or indirectly identify User as the source of such information or data.

(d) Fees. User will pay when due all amounts payable to third parties arising from User's access to NYSE Arca. Such amounts include, but are not limited to, applicable exchange and regulatory fees.

(e) Sponsored Participants. Notwithstanding NYSE Arca's execution and delivery to User of a copy of this Agreement, if User is a Sponsored Participant, and not an ETP Holder, as a condition to initiating and continuing access to NYSE Arca, (i) User must enter into and maintain customer agreements with one or more Sponsoring ETP Holders establishing proper relationship(s) and account(s) through which User may trade on NYSE Arca. Such customer agreement(s) must incorporate the Sponsorship Provisions set forth in NYSE Arca Equities Rules.

(f) Order Designation. All orders other than orders entered into NYSE Arca by a Sponsored Participant, and any trades resulting there from shall be the responsibility of the ETP Holder from which they originated.

2. NYSE Arca RULES.

(a) Compliance with NYSE Arca Equities Rules. User represents and warrants that: (i) it will use NYSE Arca only if and when it is duly authorized to use NYSE Arca pursuant to NYSE Arca Equities Rules and User is an ETP Holder or User is a Sponsored Participant; (ii) it will only use NYSE Arca in compliance with NYSE Arca Equities Rules; and, (iii) it is and will remain responsible for its use of NYSE Arca and the use of NYSE Arca by any of its employees, customers, and agents or by any Sponsored Participants whose use of NYSE Arca is sponsored by the User; (iv) it will maintain and keep current a list of all Authorized Traders who may obtain access to NYSE Arca on behalf of the User and/or the User's Sponsored Participant(s); and (v) it will familiarize all Authorized Traders with all of User's obligations under this Agreement and will assure that they receive appropriate training prior to any use or access to NYSE Arca.

SECTION 4 - NYSE ArcaSM USER AGREEMENT (CONTINUED)

(b) Monitoring. User acknowledges and agrees that NYSE Arca Equities will monitor the use of NYSE Arca by User for compliance with all applicable laws and regulations, including, without limitation, NYSE Arca Equities Rules. User acknowledges its responsibility to monitor its employees, agents and customers for compliance with NYSE Arca Equities Rules, the rules and regulations of any self-regulatory organizations of which User is a member and all applicable federal and state laws.

(c) Integrity of NYSE Arca. User will not (i) materially alter the information or data supplied to or received from NYSE Arca in violation of NYSE Arca Equities Rules, (ii) materially affect the integrity of the information or data supplied to or received from NYSE Arca, or (iii) supply or render information or data to or from NYSE Arca that is illegal, inaccurate, unfair, uninformative, fictitious, misleading or discriminatory. User will not permit its employees, agents or customers to interfere with or adversely affect NYSE Arca or any use thereof by any other authorized individuals or entities.

(d) Indemnity. User agrees to indemnify, defend and hold NYSE Arca, NYSE Arca, Inc. and NYSE Arca Equities harmless from and against any and all claims, demands, losses, costs, expenses, obligations, liabilities, damages, recoveries, and deficiencies, including interest, penalties, and attorneys' fees, arising from or as a result of User's breach of its obligations under this User Agreement or otherwise from its use of NYSE Arca.

3. CHANGE OF NYSE Arca, LLC.

User acknowledges and agrees that nothing in this User Agreement constitutes an understanding by NYSE Arca to continue any aspect in its current form. NYSE Arca may from time to time make additions, deletions or modifications to NYSE Arca. User acknowledges and agrees that NYSE Arca may temporarily or permanently, unilaterally condition, modify or terminate the right of any individuals or entities to access, receive or use NYSE Arca in accordance with NYSE Arca Equities Rules. Further, NYSE Arca may temporarily or permanently terminate the right of any individuals or entities to access NYSE Arca at any time if so instructed by NYSE Arca Equities.

4. OWNERSHIP.

User acknowledges and agrees that all patents, copyrights, trade secrets, trademarks and other property rights in or related to NYSE Arca and the information and data made available through NYSE Arca (including compilation rights in information and data) are and will remain the exclusive property of NYSE Arca or its licensors. User will attribute the source as appropriate under all circumstances.

5. INFORMATION.

(a) Confidentiality. Both parties acknowledge that (i) NYSE Arca and the information and data made available therein, incorporate confidential and proprietary information developed, acquired by or licensed to NYSE Arca, including confidential information of NYSE Arca Equities or other entities, and (ii) each party may receive or have access to other proprietary or confidential information disclosed and marked as confidential by the disclosing party (collectively, the "Information"). The receiving party will use the disclosing party's Information solely to perform its obligations under this User Agreement. The receiving party will take all precautions necessary to safeguard the confidentiality of the disclosing party's Information, including without limitation, (i) those taken by the receiving party to protect its own confidential information and (ii) those which the disclosing party may reasonably request from time to time.

(b) Disclosure. The receiving party will not disclose, in whole or in part, the disclosing party's Information to any person, except as specifically authorized under this User Agreement. User may not disclose any data or compilations of data made available to User by NYSE Arca without the express, prior written authorization of NYSE Arca. User acknowledges that any and all information provided to NYSE Arca by the User will be disclosed to NYSE Arca Equities for use in accordance with NYSE Arca Equities Rules. User hereby consents to such disclosure. NYSE Arca may also disclose Information in accordance with its regulatory obligations.

(c) Unauthorized Use or Disclosure. The parties acknowledge that any unauthorized use or disclosure of the disclosing party's Information may cause irreparable damage to the disclosing party. If an unauthorized use or disclosure occurs, the receiving party will immediately notify the disclosing party and take at its expense all steps necessary to recover the disclosing party's Information and to prevent its subsequent unauthorized use or dissemination, including availing itself of actions for seizure and injunctive relief. If the receiving party fails to take these steps in a timely and adequate manner, the disclosing party may take them at the receiving party's expense, and the receiving party will provide the disclosing party with its reasonable cooperation in such actions that the disclosing party may request.

(d) Limitation. The receiving party will have no confidentiality obligation with respect to any portion of the disclosing party's Information that (i) the receiving party independently developed before receiving the Information from the disclosing party, (ii) the receiving party lawfully obtained from a third party under no obligation of confidentiality, (iii) is or becomes available to the public other than as a result of an act or omission of the receiving party or any of its employees or (iv) the receiving party is compelled to disclose pursuant to legal process provided by a court of competent jurisdiction or other governmental entity or regulatory or self-regulatory authority to whose jurisdiction the receiving party is subject.

SECTION 4 - NYSE ArcaSM USER AGREEMENT (CONTINUED)

6. DISCLAIMER OF WARRANTY.

NYSE Arca IS MADE AVAILABLE "AS IS" AND WITHOUT WARRANTY OF ANY KIND. ALL WARRANTIES, CONDITIONS, REPRESENTATIONS, INDEMNITIES AND GUARANTEES WITH RESPECT TO THE NYSE Arca AND ANY DATA, SOFTWARE OR INFORMATION MADE AVAILABLE THEREIN BY NYSE Arca, NYSE Arca EQUITIES OR ITS OR THEIR LICENSORS, WHETHER EXPRESS, IMPLIED, OR STATUTORY, ARISING BY LAW, CUSTOM, PRIOR ORAL OR WRITTEN STATEMENTS BY NYSE Arca, NYSE Arca EQUITIES OR ITS OR THEIR AGENTS, AFFILIATES, LICENSORS OR OTHERWISE (INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF SATISFACTORY QUALITY, ACCURACY, UNINTERRUPTED USE, TIMELINESS, TRUTHFULNESS, SEQUENCE, COMPLETENESS, MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE OR NON-INFRINGEMENT AND ANY IMPLIED WARRANTIES ARISING FROM TRADE USAGE, COURSE OF DEALING OR COURSE OF PERFORMANCE) ARE HEREBY OVERRIDDEN, EXCLUDED AND DISCLAIMED.

7. NO LIABILITY FOR TRADES.

USER UNDERSTANDS AND AGREES THAT (I) NYSE Arca IS NOT DIRECTLY OR INDIRECTLY A PARTY TO OR A PARTICIPANT IN ANY TRADE OR TRANSACTION ENTERED INTO OR OTHERWISE CONDUCTED THROUGH NYSE Arca, AND (II) NYSE Arca IS NOT LIABLE IN ANY MANNER TO ANY PERSON (INCLUDING WITHOUT LIMITATION THE USER AND ANY PERSON FOR WHOM THE USER IS AUTHORIZED TO TRADE OR ACT) FOR THE FAILURE OF ANY PERSON ENTERING INTO A TRADE OR TRANSACT BY MEANS OF NYSE Arca TO PERFORM SUCH PERSON'S SETTLEMENT OR OTHER OBLIGATIONS UNDER SUCH TRADE OR TRANSACTION. NEITHER NYSE Arca, NYSE Arca EQUITIES, OR ITS OR THEIR AGENTS, AFFILIATES OR LICENSORS WILL BE LIABLE FOR ANY LOSSES, DAMAGES, OR OTHER CLAIMS, ARISING OUT OF NYSE Arca OR ITS USE. ANY LOSSES, DAMAGES, OR OTHER CLAIMS, RELATED TO A FAILURE OF NYSE Arca TO DELIVER, DISPLAY, TRANSMIT, EXECUTE, COMPARE, SUBMIT FOR CLEARANCE AND SETTLEMENT, OR OTHERWISE PROCESS AN ORDER, MESSAGE, OR OTHER DATA ENTERED INTO, OR CREATED BY, NYSE Arca WILL BE ABSORBED BY THE USER OR THE ETP HOLDER SPONSORING THE USER, THAT ENTERED THE ORDER, MESSAGE OR OTHER DATA INTO NYSE Arca. IF THIS SECTION IS DEEMED TO CONFLICT WITH ANY OTHER SECTION OF THIS USER AGREEMENT, THIS SECTION WILL SUPERCEDE SUCH OTHER SECTION.

8. NO CONSEQUENTIAL DAMAGES.

UNDER NO CIRCUMSTANCES WILL NYSE Arca, NYSE Arca EQUITIES OR ITS OR THEIR AGENTS, AFFILIATES OR LICENSORS BE LIABLE FOR ANY LOSS, DAMAGE, CLAIM OR EXPENSE, INCLUDING WITHOUT LIMITATION ANY DIRECT, CONSEQUENTIAL, INDIRECT, SPECIAL, PUNITIVE OR INCIDENTAL DAMAGES OR LOST PROFITS, WHETHER FORESEEABLE OR UNFORESEEABLE, BASED ON USER'S CLAIMS OR THE CLAIMS OF ITS CUSTOMERS, EMPLOYEES OR AGENTS (INCLUDING, BUT NOT LIMITED TO, CLAIMS FOR LOSS OF DATA, GOODWILL, USE OF MONEY OR USE OF NYSE Arca, INTERRUPTION IN USE OR AVAILABILITY NYSE Arca, STOPPAGE OF OTHER WORK OR IMPAIRMENT OF OTHER ASSETS), ARISING OUT OF BREACH OR FAILURE OF EXPRESS OR IMPLIED WARRANTY, BREACH OF CONTRACT, MISREPRESENTATION, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE. THIS SECTION WILL NOT APPLY ONLY WHEN AND TO THE EXTENT THAT APPLICABLE LAW SPECIFICALLY REQUIRES LIABILITY, DESPITE THE FOREGOING EXCLUSION AND LIMITATION.

9. TERM AND TERMINATION.

This User Agreement will be effective as of the Effective Date and will remain in effect thereafter until terminated by either party upon notice to the other party. Termination will be effective at the close of trading in the affected markets and applications on the day that notice of termination is received by the other party hereto. NYSE Arca may terminate this User Agreement immediately if (i) the User is in breach of this User Agreement for any reason, (ii) any representations made by the User in connection with this User Agreement are or become false or misleading or (iii) NYSE Arca is notified that User is no longer an ETP Holder or Sponsored Participant in good standing with NYSE Arca Equities or otherwise is no longer authorized to access NYSE Arca. Upon the termination of this User Agreement for any reason, all rights granted to User hereunder will cease. The provisions of Sections 2(d), 5, 6, 7, 8, 9, and 12 will survive the termination or expiration of this User Agreement for any reason. In no event will termination of this User Agreement relieve User of any obligations incurred through its use of NYSE Arca.

10. ASSIGNMENT.

User shall not assign, delegate or otherwise transfer this User Agreement or any of its rights or obligations hereunder without NYSE Arca's prior approval, which will not be unreasonably withheld. NYSE Arca may assign or transfer this User Agreement or any of its rights or obligations hereunder to a related or unrelated party upon notice to User.

11. FORCE MAJEURE.

Notwithstanding any other term or condition of this User Agreement to the contrary, neither NYSE Arca nor User will be obligated to perform or observe their obligations undertaken in this User Agreement if prevented or hindered from doing so by any circumstances found to be beyond their control.

SECTION 4 - NYSE ArcaSM USER AGREEMENT (CONTINUED)

12. MISCELLANEOUS.

All notices or approvals required or permitted under this User Agreement must be given in writing to the address specified above. Any waiver or modification of this User Agreement will not be effective unless executed in writing and signed by the other party. This User Agreement will bind each party's successors-in-interest. This User Agreement will be governed by and interpreted in accordance with the internal laws of the State of New York, USA. All disputes, claims or controversies between the parties hereto will be submitted to arbitration in New York, New York pursuant to the applicable NYSE Arca Equities Rules, if permissible under such rules, and otherwise under the rules of the American Arbitration Association; provided, however, that nothing herein will prevent NYSE Arca from seeking interim injunctive relief in any court of competent jurisdiction. Both parties submit to the non-exclusive jurisdiction of the state and federal courts in and for New York, New York, USA for the resolution of any dispute arising under this User Agreement. If any provision of this User Agreement is held to be unenforceable, in whole or in part, such holding will not affect the validity of the other provisions of this User Agreement. No action arising out of any claimed breach of this User Agreement may be brought by either party more than one (1) year after the cause of action arose. This User Agreement, together with the applicable NYSE Arca Equities Rules, constitutes the complete and entire statement of all conditions and representations of the agreement between NYSE Arca and User with respect to its subject matter and supersedes all prior writings or understandings.

SECTION 4.1 – SPONSORED PARTICIPANT – LIST OF AUTHORIZED TRADERS

Provide the names of all Authorized Traders in the area below: (A typed attachment with the same information will also suffice)

AUTHORIZED TRADER

Name: _____ CRD: _____

Business Address: _____

Phone: _____ Fax: _____ Email: _____

AUTHORIZED TRADER

Name: _____ CRD: _____

Business Address: _____

Phone: _____ Fax: _____ Email: _____

AUTHORIZED TRADER

Name: _____ CRD: _____

Business Address: _____

Phone: _____ Fax: _____ Email: _____

AUTHORIZED TRADER

Name: _____ CRD: _____

Business Address: _____

Phone: _____ Fax: _____ Email: _____

AUTHORIZED TRADER

Name: _____ CRD: _____

Business Address: _____

Phone: _____ Fax: _____ Email: _____

Additional Authorized Traders are submitted in a separate document attached hereto.

Signature by the Designated Supervisor of the Sponsoring ETP Firm: _____

Date: _____

SECTION 5- ARCHIPELAGO SECURITIES™ ROUTING AGREEMENT

Provided that User is an ETP Holder or Sponsored Participant of NYSE Arca Equities and subject to a valid, ongoing User Agreement with NYSE Arca, LLC; Archipelago Securities, LLC (hereinafter "Archipelago Securities"), a broker-dealer registered in accordance with Section 15(a) of the Securities Exchange Act of 1934, agrees to act as agent to User for the purpose of providing certain routing services, as described herein, provided that User is bound by the terms and conditions of this Routing Agreement and any applicable rules and interpretations of NYSE Arca Equities Rules. Whereas Archipelago Securities provides certain order routing services for NYSE Arca Equities, and User desires to use the order routing facilities of NYSE Arca Equities and NYSE Arca, for good and valuable consideration, User and Archipelago Securities agree as follows:

1. ROUTING SERVICES.

Archipelago Securities, a wholly owned subsidiary of Archipelago Holdings, Inc., agrees to act as agent of the User for routing orders entered into NYSE Arca to the applicable market centers or broker-dealers for execution, whenever such routing is required in accordance with NYSE Arca Equities Rules. User understands and agrees that orders executed on its behalf shall at all times be subject to the terms and conditions of NYSE Arca Equities Rules.

2. ORDERS NOT ELIGIBLE FOR ROUTING SERVICES.

User agrees that Archipelago Securities will not execute any orders that are not eligible for order routing in accordance with NYSE Arca Equities Rules. For example, NYSE Arca Equities Rules may provide that if a User has indicated that an order must not be routed to another market center for execution (*i.e.*, by designating an order as a fill-or-return or fill-or-return plus order), the order will not be eligible for routing services provided by Archipelago Securities.

3. CANCELLATION; MODIFICATION OF ORDERS.

User agrees that any requests regarding cancellation or modification of orders shall be subject to NYSE Arca Equities Rules. User understands that such rules may provide that requests to cancel orders while the order is routed away to another market center and remains outside NYSE Arca will be processed by Archipelago Securities, subject to the applicable trading rules of the relevant market center.

4. TRANSMISSION OF ORDER INSTRUCTIONS.

User agrees that all orders on its behalf must be transmitted to Archipelago Securities through NYSE Arca. User agrees that NYSE Arca is its exclusive mechanism for purposes of transmitting orders on its behalf to Archipelago Securities and for receiving notice regarding such orders. Archipelago Securities shall be entitled to rely upon and act in accordance with any order instructions received from NYSE Arca on behalf of User. User agrees that all order executions effected on behalf of User pursuant to this agreement shall be reported by Archipelago Securities to NYSE Arca. The User shall be notified of such executions through NYSE Arca.

5. CLEARANCE AND SETTLEMENT.

User agrees that all transactions executed on its behalf shall be processed in accordance with NYSE Arca Equities Rules. If User is an ETP Holder, User agrees that orders executed on its behalf by Archipelago Securities shall be automatically processed by NYSE Arca for clearance and settlement on a locked-in basis. If User is a Sponsored Participant, User agrees that all orders executed on its behalf by Archipelago Securities shall be cleared and settled, using the relevant Sponsoring ETP Holder's mnemonic (or its clearing firm's mnemonic as applicable).

6. TERM OF AGREEMENT.

This Routing Agreement will be effective as of the Effective Date and will remain in effect thereafter until terminated by either party upon notice to the other party. Termination will be effective at the close of trading in the affected markets and applications on the day that notice of termination is received by the other party hereto. Archipelago Securities may terminate this Routing Agreement immediately if (i) the User is in breach of this Routing Agreement for any reason, (ii) any representations made by the User in connection with this Agreement or the User Agreement are or become false or misleading or (iii) User is no longer a ETP Holder or Sponsored Participant of NYSE Arca Equities or otherwise authorized to access NYSE Arca. Upon the termination of this Agreement or the User Agreement for any reason, all rights granted to User hereunder will cease. The provisions of Paragraphs 7, 8, 9 and 10 will survive the termination or expiration of this Routing Agreement for any reason. In no event will termination of this Routing Agreement relieve User of any obligations incurred through its use of NYSE Arca.

SECTION 5- ARCHIPELAGO SECURITIES™ ROUTING AGREEMENT (CONTINUED)

7. INDEMNITY.

User agrees to indemnify, defend and hold Archipelago Securities harmless from and against any and all claims, demands, losses, costs, expenses, obligations, liabilities, damages, recoveries, and deficiencies, including interest, penalties, and attorneys' fees, arising from or as a result of User's breach of its obligations under this Agreement or otherwise from its use of the Archipelago Securities routing services.

8. DISCLAIMER OF WARRANTY.

ROUTING SERVICES ARE PROVIDED "AS IS" AND WITHOUT WARRANTY OF ANY KIND. ALL WARRANTIES, CONDITIONS, REPRESENTATIONS, INDEMNITIES AND GUARANTEES WITH RESPECT TO THE ROUTING SERVICE, WHETHER EXPRESS, IMPLIED, OR STATUTORY, ARISING BY LAW, CUSTOM, PRIOR ORAL OR WRITTEN STATEMENTS BY ARCHIPELAGO SECURITIES, NYSE Arca EQUITIES OR ITS OR THEIR AGENTS, AFFILIATES, LICENSORS OR OTHERWISE (INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF SATISFACTORY QUALITY, ACCURACY, UNINTERRUPTED USE, TIMELINESS, TRUTHFULNESS, SEQUENCE, COMPLETENESS, MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE OR NON-INFRINGEMENT AND ANY IMPLIED WARRANTIES ARISING FROM TRADE USAGE, COURSE OF DEALING OR COURSE OF PERFORMANCE) ARE HEREBY OVERRIDDEN, EXCLUDED AND DISCLAIMED.

9. NO LIABILITY FOR TRADES.

USER UNDERSTANDS AND AGREES THAT (I) ARCHIPELAGO SECURITIES IS NOT LIABLE IN ANY MANNER TO ANY PERSON (INCLUDING WITHOUT LIMITATION THE USER AND ANY PERSON FOR WHOM THE USER IS AUTHORIZED TO TRADE OR ACT) FOR THE FAILURE OF ANY PERSON ENTERING INTO A TRADE OR TRANSACTION BY MEANS OF NYSE Arca TO PERFORM SUCH PERSON'S SETTLEMENT OR OTHER OBLIGATIONS UNDER SUCH TRADE OR TRANSACTION. NEITHER ARCHIPELAGO SECURITIES, OR ITS AGENTS, AFFILIATES OR LICENSORS WILL BE LIABLE FOR ANY LOSSES, DAMAGES, OR OTHER CLAIMS, ARISING OUT OF THE ROUTING SERVICE OR ITS USE. ANY LOSSES, DAMAGES, OR OTHER CLAIMS, RELATED TO A FAILURE OF ARCHIPELAGO SECURITIES TO DELIVER, DISPLAY, TRANSMIT, EXECUTE, COMPARE, SUBMIT FOR CLEARANCE AND SETTLEMENT, OR OTHERWISE PROCESS AN ORDER, MESSAGE, OR OTHER DATA ENTERED INTO, OR CREATED BY, NYSE Arca WILL BE ABSORBED BY THE USER OR THE ETP HOLDER SPONSORING THE USER, THAT ENTERED THE ORDER, MESSAGE OR OTHER DATA INTO NYSE Arca. IF THIS SECTION IS DEEMED TO CONFLICT WITH ANY OTHER SECTION OF THIS USER AGREEMENT, THIS SECTION WILL SUPERCEDE SUCH OTHER SECTION.

10. NO CONSEQUENTIAL DAMAGES. UNDER NO CIRCUMSTANCES WILL ARCHIPELAGO SECURITIES, NYSE Arca EQUITIES OR ITS OR THEIR AGENTS, AFFILIATES OR LICENSORS BE LIABLE FOR ANY LOSS, DAMAGE, CLAIM OR EXPENSE, INCLUDING WITHOUT LIMITATION ANY DIRECT, CONSEQUENTIAL, INDIRECT, SPECIAL, PUNITIVE OR INCIDENTAL DAMAGES OR LOST PROFITS, WHETHER FORESEEABLE OR UNFORESEEABLE, BASED ON USER'S CLAIMS OR THE CLAIMS OF ITS CUSTOMERS, EMPLOYEES OR AGENTS (INCLUDING, BUT NOT LIMITED TO, CLAIMS FOR LOSS OF DATA, GOODWILL, USE OF MONEY OR USE OF ROUTING SERVICES, INTERRUPTION IN USE OR AVAILABILITY OF ARCHIPELAGO SECURITIES, STOPPAGE OF OTHER WORK OR IMPAIRMENT OF OTHER ASSETS), ARISING OUT OF BREACH OR FAILURE OF EXPRESS OR IMPLIED WARRANTY, BREACH OF CONTRACT, MISREPRESENTATION, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE. THIS SECTION WILL NOT APPLY ONLY WHEN AND TO THE EXTENT THAT APPLICABLE LAW SPECIFICALLY REQUIRES LIABILITY, DESPITE THE FOREGOING EXCLUSION AND LIMITATION.

11. ASSIGNMENT.

User shall not assign, delegate or otherwise transfer this Routing Agreement or any of its rights or obligations hereunder without Archipelago Securities' prior approval, which will not be unreasonably withheld. Archipelago Securities may assign or transfer this Routing Agreement or any of its rights or obligations hereunder to a related or unrelated party upon notice to User.

12. FORCE MAJEURE.

Notwithstanding any other term or condition of this Routing Agreement to the contrary, neither Archipelago Securities nor User will be obligated to perform or observe their obligations undertaken in this Routing Agreement if prevented or hindered from doing so by any circumstances found to be beyond their control.

SECTION 5- ARCHIPELAGO SECURITIESTM ROUTING AGREEMENT (CONTINUED)

13. MISCELLANEOUS.

All notices or approvals required or permitted under this Routing Agreement must be given in writing to the address specified above. Any waiver or modification of this Routing Agreement will not be effective unless executed in writing and signed by the other party, provided that this agreement shall at all times be interpreted to effect the rules and interpretations of NYSE Arca Equities, as applicable. This Routing Agreement will bind each party's successors-in-interest. This Routing Agreement will be governed by and interpreted in accordance with the internal laws of the State of New York, USA. All disputes, claims or controversies between the parties hereto will be submitted to arbitration in New York, New York. This Routing Agreement, together with the applicable NYSE Arca Equities Rules, constitutes the complete and entire statement of all conditions and representations of the agreement between Archipelago Securities and User with respect to its subject matter and supersedes all prior writings or understandings.

Execution of this Agreement by an ETP Holder or Sponsored Participant may be effected by initialing the User Agreement for NYSE Arca or, alternatively, by signing in the space provided below:

Accepted on behalf of Sponsored Participant:

By: _____

Name: _____

Title: _____

Date: _____

SECTION 6 – CLEARING LETTER OF CONSENT**TO BE COMPLETED BY CLEARING ETP HOLDER AND/OR THE SPONSORING ETP HOLDER OF THE SPONSORED FIRM.**

This Section shall be deemed a letter of guarantee/letter of authorization pursuant to NYSE Arca Equities Rules and may be relied upon by NYSE Arca Equities, NYSE Arca, Inc., the NSCC, and their respective members. This letter of guarantee/letter of authorization shall be subject to NYSE Arca Equities Rules, as amended from time to time, and shall remain in effect until revoked in writing by the Clearing ETP Holder. This letter of guarantee/letter of authorization is to only be utilized for the Sponsored relationship of the Sponsored Participant defined within.

The Sponsored Participant will clear in the same manner as the Sponsoring ETP Holder, under the Sponsoring ETP Holder's Letter of Consent (LOC) on file.

Sponsored Participant

CRD# and/or SEC File# (if applicable)

Sponsoring ETP Holder

CRD# and/or SEC File#

Clearing ETP Holder

NSCC Clearing Firm#

The Sponsored Participant will clear through a third party Clearing ETP Holder, as set forth below.

The undersigned Clearing ETP Holder is a member of the National Securities Clearing Corporation ("NSCC") and an approved ETP Holder of NYSE Arca, LLC, a facility of NYSE Arca. The Clearing ETP Holder hereby agrees to accept full financial liability for all transactions effected through and carried in all accounts held by the following Sponsored Participant with Clearing ETP Holder. This clearing arrangement is between the Clearing ETP Holder and the Sponsored Participant, using an account authorized by the below undersigned Sponsoring ETP Holder. This letter shall remain in effect until revoked in writing by the Clearing ETP Holder:

Sponsored Participant

CRD# and/or SEC File# (if applicable)

Clearing ETP Holder (Broker-Dealer Name)

Sponsoring ETP Holder (Broker-Dealer Name)

Clearing ETP Holder (NSCC Clearing Firm#)

Signature of Authorized Officer, Partner or
Managing Member of Clearing ETP Holder

Signature of Authorized Officer, Partner or
Managing Member, or Sole Proprietor of Sponsoring ETP Holder

Print Name / Title

Print Name / Title

Date

Date