Form W-8BEN-E

(Rev. July 2017) Department of the Treasury Internal Revenue Service

Certificate of Status of Beneficial Owner for United States Tax Withholding and Reporting (Entities) For use by entities. Individuals must use Form W-8BEN. Section references are to the Internal Revenue Code. Go to www.irs.gov/FormW8BENE for instructions and the latest information. Give this form to the withholding agent or payer. Do not send to the IRS.

OMB No. 1545-1621

Do NO	T use this form for:		Instead use Form:
• U.S.	entity or U.S. citizen or resident		W-9
• A for	eign individual	dual) or Form 82	233
	eign individual or entity claiming that income is effectively connected with ss claiming treaty benefits)		
• A for	eign partnership, a foreign simple trust, or a foreign grantor trust (unless o	claiming treaty b	penefits) (see instructions for exceptions) W-8IMY
A fore govern	eign government, international organization, foreign central bank of issue rnment of a U.S. possession claiming that income is effectively connected by, 892, 895, or 1443(b) (unless claiming treaty benefits) (see instructions	, foreign tax-exe d U.S. income o	empt organization, foreign private foundation, or r that is claiming the applicability of section(s) 115(2),
• Any p	person acting as an intermediary (including a qualified intermediary acting	g as a qualified	derivatives dealer)W-8IMY
Par	Identification of Beneficial Owner		
1	Name of organization that is the beneficial owner		2 Country of incorporation or organization
3	Name of disregarded entity receiving the payment (if applicable, see ins	tructions)	
4	☐ Simple trust ☐ Grantor trust ☐ Com	poration nplex trust ate foundation ust above, is the	☐ Disregarded entity ☐ Partnership☐ Estate ☐ Government☐ International organization entity a hybrid making a treaty ☐ Yes ☐ No
5	Chapter 4 Status (FATCA status) (See instructions for details and comp Nonparticipating FFI (including an FFI related to a Reporting IGA FFI other than a deemed-compliant FFI, participating FFI, or exempt beneficial owner). Participating FFI. Reporting Model 1 FFI. Reporting Model 2 FFI. Registered deemed-compliant FFI (other than a reporting Model 1 FFI, sponsored FFI, or nonreporting IGA FFI covered in Part XII). See instructions. Sponsored FFI. Complete Part IV. Certified deemed-compliant nonregistering local bank. Complete Part V. Certified deemed-compliant FFI with only low-value accounts. Complete Part VI. Certified deemed-compliant sponsored, closely held investment vehicle. Complete Part VII. Certified deemed-compliant limited life debt investment entity. Complete Part VIII. Certain investment entities that do not maintain financial accounts. Complete Part IX. Owner-documented FFI. Complete Part X.	Nonreport Foreign governtral bate internation Exempt refine Excepted Excepted Excepted Excepted Complete 501(c) org Nonprofit Publicly trecorporation Excepted Active NF Passive N Excepted Direct rep	ation below for the entity's applicable status.) ting IGA FFI. Complete Part XII. overnment, government of a U.S. possession, or foreign ink of issue. Complete Part XIII. nal organization. Complete Part XIV. etirement plans. Complete Part XV. folly owned by exempt beneficial owners. Complete Part XVI. inancial institution. Complete Part XVIII. nonfinancial group entity. Complete Part XVIII. nonfinancial start-up company. Complete Part XIX. nonfinancial entity in liquidation or bankruptcy.
	Restricted distributor. Complete Part XI.	_	hat is not a financial account.
6	Permanent residence address (street, apt. or suite no., or rural route). Do		
	City or town, state or province. Include postal code where appropriate.		Country
7	Mailing address (if different from above)		,
	City or town, state or province. Include postal code where appropriate.		Country
8	U.S. taxpayer identification number (TIN), if required 9a GIIN		b Foreign TIN
10	Reference number(s) (see instructions) Please complete remainder of the form including signing the form in Part.	NAA/	-

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Par	Disregarded Entity or Branch Receiving Payment. (Complete only if a disregarded entity with a GIIN or a branch of an FFI in a country other than the FFI's country of residence. See instructions.)
11	Chapter 4 Status (FATCA status) of disregarded entity or branch receiving payment
	☐ Branch treated as nonparticipating FFI. ☐ Reporting Model 1 FFI. ☐ U.S. Branch.
	☐ Participating FFI. ☐ Reporting Model 2 FFI.
12	Address of disregarded entity or branch (street, apt. or suite no., or rural route). Do not use a P.O. box or in-care-of address (other than a registered address).
	City or town, state or province. Include postal code where appropriate.
	Country
13	GIIN (if any)
Par	Claim of Tax Treaty Benefits (if applicable). (For chapter 3 purposes only.)
14	I certify that (check all that apply):
а	☐ The beneficial owner is a resident ofwithin the meaning of the income tax
	treaty between the United States and that country.
b	☐ The beneficial owner derives the item (or items) of income for which the treaty benefits are claimed, and, if applicable, meets the requirements of the treaty provision dealing with limitation on benefits. The following are types of limitation on benefits provisions that may be included in an applicable tax treaty (check only one; see instructions):
	☐ Government ☐ Company that meets the ownership and base erosion test
	☐ Tax exempt pension trust or pension fund ☐ Company that meets the derivative benefits test
	☐ Other tax exempt organization ☐ Company with an item of income that meets active trade or business test
	☐ Publicly traded corporation ☐ Favorable discretionary determination by the U.S. competent authority received
	☐ Subsidiary of a publicly traded corporation ☐ Other (specify Article and paragraph):
С	☐ The beneficial owner is claiming treaty benefits for U.S. source dividends received from a foreign corporation or interest from a U.S. trade or business of a foreign corporation and meets qualified resident status (see instructions).
15	Special rates and conditions (if applicable—see instructions):
	The beneficial owner is claiming the provisions of Article and paragraph
	of the treaty identified on line 14a above to claim a % rate of withholding on (specify type of income):
	Explain the additional conditions in the Article the beneficial owner meets to be eligible for the rate of withholding:
Par	
16	Name of sponsoring entity:
17	Check whichever box applies.
	☐ I certify that the entity identified in Part I:
	• Is an investment entity;
	• Is not a QI, WP (except to the extent permitted in the withholding foreign partnership agreement), or WT; and
	 Has agreed with the entity identified above (that is not a nonparticipating FFI) to act as the sponsoring entity for this entity.
	☐ I certify that the entity identified in Part I:
	• Is a controlled foreign corporation as defined in section 957(a);
	• Is not a QI, WP, or WT;
	• Is wholly owned, directly or indirectly, by the U.S. financial institution identified above that agrees to act as the sponsoring entity for this entity; and
	• Shares a common electronic account system with the sponsoring entity (identified above) that enables the sponsoring entity to identify all account holders and payees of the entity and to access all account and customer information maintained by the entity including, but not limited to, customer identification information, customer documentation, account balance, and all payments made to account holders or payees.

Form W-8BEN-E (Rev. 7-2017) Page 3 **Certified Deemed-Compliant Nonregistering Local Bank** Part V I certify that the FFI identified in Part I: 18 · Operates and is licensed solely as a bank or credit union (or similar cooperative credit organization operated without profit) in its country of

- incorporation or organization;
- · Engages primarily in the business of receiving deposits from and making loans to, with respect to a bank, retail customers unrelated to such bank and, with respect to a credit union or similar cooperative credit organization, members, provided that no member has a greater than 5% interest in such credit union or cooperative credit organization:
- Does not solicit account holders outside its country of organization;
- · Has no fixed place of business outside such country (for this purpose, a fixed place of business does not include a location that is not advertised to the public and from which the FFI performs solely administrative support functions);
- Has no more than \$175 million in assets on its balance sheet and, if it is a member of an expanded affiliated group, the group has no more than \$500 million in total assets on its consolidated or combined balance sheets; and
- Does not have any member of its expanded affiliated group that is a foreign financial institution, other than a foreign financial institution that is incorporated or organized in the same country as the FFI identified in Part I and that meets the requirements set forth in this part.

Part VI Certified Deemed-Compliant FFI with Only Low-Value Accounts

- I certify that the FFI identified in Part I:
 - · Is not engaged primarily in the business of investing, reinvesting, or trading in securities, partnership interests, commodities, notional principal contracts, insurance or annuity contracts, or any interest (including a futures or forward contract or option) in such security, partnership interest, commodity, notional principal contract, insurance contract or annuity contract;
 - · No financial account maintained by the FFI or any member of its expanded affiliated group, if any, has a balance or value in excess of \$50,000 (as determined after applying applicable account aggregation rules); and
 - · Neither the FFI nor the entire expanded affiliated group, if any, of the FFI, have more than \$50 million in assets on its consolidated or combined balance sheet as of the end of its most recent accounting year.

Part VII Certified Deemed-Compliant Sponsored, Closely Held Investment Vehicle

- 20 Name of sponsoring entity:
- 21 I certify that the entity identified in Part I:
 - Is an FFI solely because it is an investment entity described in Regulations section 1.1471-5(e)(4);
 - Is not a QI. WP. or WT:
 - · Will have all of its due diligence, withholding, and reporting responsibilities (determined as if the FFI were a participating FFI) fulfilled by the sponsoring entity identified on line 20; and
 - 20 or fewer individuals own all of the debt and equity interests in the entity (disregarding debt interests owned by U.S. financial institutions, participating FFIs, registered deemed-compliant FFIs, and certified deemed-compliant FFIs and equity interests owned by an entity if that entity owns 100% of the equity interests in the FFI and is itself a sponsored FFI).

Part VIII Certified Deemed-Compliant Limited Life Debt Investment Entity

- 22 ☐ I certify that the entity identified in Part I:
 - Was in existence as of January 17, 2013;
 - Issued all classes of its debt or equity interests to investors on or before January 17, 2013, pursuant to a trust indenture or similar agreement; and
 - Is certified deemed-compliant because it satisfies the requirements to be treated as a limited life debt investment entity (such as the restrictions with respect to its assets and other requirements under Regulations section 1.1471-5(f)(2)(iv)).

Part IX Certain Investment Entities that Do Not Maintain Financial Accounts

- I certify that the entity identified in Part I:
 - Is a financial institution solely because it is an investment entity described in Regulations section 1.1471-5(e)(4)(i)(A), and
 - · Does not maintain financial accounts.

Part X Owner-Documented FFI

Note: This status only applies if the U.S. financial institution, participating FFI, or reporting Model 1 FFI to which this form is given has agreed that it will treat the FFI as an owner-documented FFI (see instructions for eligibility requirements). In addition, the FFI must make the certifications below.

- (All owner-documented FFIs check here) I certify that the FFI identified in Part I: 24a
 - Does not act as an intermediary;
 - · Does not accept deposits in the ordinary course of a banking or similar business;
 - Does not hold, as a substantial portion of its business, financial assets for the account of others;
 - · Is not an insurance company (or the holding company of an insurance company) that issues or is obligated to make payments with respect to a financial account;
 - Is not owned by or in an expanded affiliated group with an entity that accepts deposits in the ordinary course of a banking or similar business, holds, as a substantial portion of its business, financial assets for the account of others, or is an insurance company (or the holding company of an insurance company) that issues or is obligated to make payments with respect to a financial account;
 - · Does not maintain a financial account for any nonparticipating FFI; and
 - · Does not have any specified U.S. persons that own an equity interest or debt interest (other than a debt interest that is not a financial account or that has a balance or value not exceeding \$50,000) in the FFI other than those identified on the FFI owner reporting statement.

Part	Х	Owner-Documented FFI (continued)
Check	box 24b	or 24c, whichever applies.
b	☐ I ce	ertify that the FFI identified in Part I:
	• Has p	provided, or will provide, an FFI owner reporting statement that contains:
	(i)	The name, address, TIN (if any), chapter 4 status, and type of documentation provided (if required) of every individual and specified U.S. person that owns a direct or indirect equity interest in the owner-documented FFI (looking through all entities other than specified U.S. persons);
	(ii)	The name, address, TIN (if any), and chapter 4 status of every individual and specified U.S. person that owns a debt interest in the owner-documented FFI (including any indirect debt interest, which includes debt interests in any entity that directly or indirectly owns the payee or any direct or indirect equity interest in a debt holder of the payee) that constitutes a financial account in excess of \$50,000 (disregarding all such debt interests owned by participating FFIs, registered deemed-compliant FFIs, certified deemed-compliant FFIs, excepted NFFEs, exempt beneficial owners, or U.S. persons other than specified U.S. persons); and
	(iii)	Any additional information the withholding agent requests in order to fulfill its obligations with respect to the entity.
		provided, or will provide, valid documentation meeting the requirements of Regulations section 1.1471-3(d)(6)(iii) for each personed in the FFI owner reporting statement.
С	fror revi and	ertify that the FFI identified in Part I has provided, or will provide, an auditor's letter, signed within 4 years of the date of payment, in an independent accounting firm or legal representative with a location in the United States stating that the firm or representative has been developed the FFI's documentation with respect to all of its owners and debt holders identified in Regulations section 1.1471-3(d)(6)(iv)(A)(2) at that the FFI meets all the requirements to be an owner-documented FFI. The FFI identified in Part I has also provided, or will provide FFI owner reporting statement of its owners that are specified U.S. persons and Form(s) W-9, with applicable waivers.
Check	box 24c	I if applicable (optional, see instructions).
d	☐ I ce	ertify that the entity identified on line 1 is a trust that does not have any contingent beneficiaries or designated classes with unidentified neficiaries.
Part	ΧI	Restricted Distributor
25a		restricted distributors check here) I certify that the entity identified in Part I:
		ates as a distributor with respect to debt or equity interests of the restricted fund with respect to which this form is furnished;
	• Provid	des investment services to at least 30 customers unrelated to each other and less than half of its customers are related to each other;
		uired to perform AML due diligence procedures under the anti-money laundering laws of its country of organization (which is an FATF-ant jurisdiction);
		ates solely in its country of incorporation or organization, has no fixed place of business outside of that country, and has the same of incorporation or organization as all members of its affiliated group, if any;
	• Does	not solicit customers outside its country of incorporation or organization;
		no more than \$175 million in total assets under management and no more than \$7 million in gross revenue on its income statement for st recent accounting year;
		a member of an expanded affiliated group that has more than \$500 million in total assets under management or more than \$20 million is revenue for its most recent accounting year on a combined or consolidated income statement; and
		not distribute any debt or securities of the restricted fund to specified U.S. persons, passive NFFEs with one or more substantial U.S., or nonparticipating FFIs.
Check	box 25b	o or 25c, whichever applies.
		that with respect to all sales of debt or equity interests in the restricted fund with respect to which this form is furnished that are made 31, 2011, the entity identified in Part I:
b	res	s been bound by a distribution agreement that contained a general prohibition on the sale of debt or securities to U.S. entities and U.S ident individuals and is currently bound by a distribution agreement that contains a prohibition of the sale of debt or securities to any exified U.S. person, passive NFFE with one or more substantial U.S. owners, or nonparticipating FFI.
С	pas res ide fun	currently bound by a distribution agreement that contains a prohibition on the sale of debt or securities to any specified U.S. person sive NFFE with one or more substantial U.S. owners, or nonparticipating FFI and, for all sales made prior to the time that such a triction was included in its distribution agreement, has reviewed all accounts related to such sales in accordance with the procedures ntified in Regulations section 1.1471-4(c) applicable to preexisting accounts and has redeemed or retired any, or caused the restricted d to transfer the securities to a distributor that is a participating FFI or reporting Model 1 FFI securities which were sold to specified U.S. sons, passive NFFEs with one or more substantial U.S. owners, or nonparticipating FFIs.

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Part	XII	Nonreporting IGA FFI
26	□lce	rtify that the entity identified in Part I:
	 Meet 	s the requirements to be considered a nonreporting financial institution pursuant to an applicable IGA between the United States and
		. The applicable IGA is a \square Model 1 IGA or a \square Model 2 IGA; and
	is treat	ed as aunder the provisions of the applicable IGA or Treasury regulations
	(if appl	icable, see instructions);
	• If you	are a trustee documented trust or a sponsored entity, provide the name of the trustee or sponsor
	The tru	stee is: U.S. Foreign
Part	XIII	Foreign Government, Government of a U.S. Possession, or Foreign Central Bank of Issue
27	type	ertify that the entity identified in Part I is the beneficial owner of the payment, and is not engaged in commercial financial activities of a engaged in by an insurance company, custodial institution, or depository institution with respect to the payments, accounts, or gations for which this form is submitted (except as permitted in Regulations section 1.1471-6(h)(2)).
Part	XIV	International Organization
heck	box 28	a or 28b, whichever applies.
28a	Псе	rtify that the entity identified in Part I is an international organization described in section 7701(a)(18).
b	☐ I ce	rtify that the entity identified in Part I:
	• Is con	mprised primarily of foreign governments;
		cognized as an intergovernmental or supranational organization under a foreign law similar to the International Organizations Immunities that has in effect a headquarters agreement with a foreign government;
	• The b	penefit of the entity's income does not inure to any private person; and
	• Is the	e beneficial owner of the payment and is not engaged in commercial financial activities of a type engaged in by an insurance company,
		al institution, or depository institution with respect to the payments, accounts, or obligations for which this form is submitted (except as ed in Regulations section 1.1471-6(h)(2)).
Part	XV	Exempt Retirement Plans
heck	box 29	a, b, c, d, e, or f, whichever applies.
29a	_	rtify that the entity identified in Part 1:
	• Is est	ablished in a country with which the United States has an income tax treaty in force (see Part III if claiming treaty benefits);
	• Is op	erated principally to administer or provide pension or retirement benefits; and
		titled to treaty benefits on income that the fund derives from U.S. sources (or would be entitled to benefits if it derived any such income) sident of the other country which satisfies any applicable limitation on benefits requirement.
b	Псе	ertify that the entity identified in Part I:
		ganized for the provision of retirement, disability, or death benefits (or any combination thereof) to beneficiaries that are former rees of one or more employers in consideration for services rendered;
	• No si	ngle beneficiary has a right to more than 5% of the FFI's assets;
	• Is su	bject to government regulation and provides annual information reporting about its beneficiaries to the relevant tax authorities in the / in which the fund is established or operated; and
	-	Is generally exempt from tax on investment income under the laws of the country in which it is established or operates due to its status as a retirement or pension plan;
	(ii)	Receives at least 50% of its total contributions from sponsoring employers (disregarding transfers of assets from other plans described
	(,	in this part, retirement and pension accounts described in an applicable Model 1 or Model 2 IGA, other retirement funds described in an applicable Model 1 or Model 2 IGA, or accounts described in Regulations section 1.1471-5(b)(2)(i)(A));
	(iii)	Either does not permit or penalizes distributions or withdrawals made before the occurrence of specified events related to retirement, disability, or death (except rollover distributions to accounts described in Regulations section 1.1471-5(b)(2)(i)(A) (referring to retirement and pension accounts), to retirement and pension accounts described in an applicable Model 1 or Model 2 IGA, or to other retirement funds described in this part or in an applicable Model 1 or Model 2 IGA); or
	(iv)	Limits contributions by employees to the fund by reference to earned income of the employee or may not exceed \$50,000 annually.
С	_	rtify that the entity identified in Part I:
	• Is o	rganized for the provision of retirement, disability, or death benefits (or any combination thereof) to beneficiaries that are former rees of one or more employers in consideration for services rendered;
		iewer than 50 participants;
		onsored by one or more employers each of which is not an investment entity or passive NFFE;
	• Emplored	loyee and employer contributions to the fund (disregarding transfers of assets from other plans described in this part, retirement and n accounts described in an applicable Model 1 or Model 2 IGA, or accounts described in Regulations section 1.1471-5(b)(2)(i)(A)) are by reference to earned income and compensation of the employee, respectively;
		cipants that are not residents of the country in which the fund is established or operated are not entitled to more than 20% of the fund's assets; and

• Is subject to government regulation and provides annual information reporting about its beneficiaries to the relevant tax authorities in the

country in which the fund is established or operates.

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art	XV Exempt Retirement Plans (continued)
d	I certify that the entity identified in Part I is formed pursuant to a pension plan that would meet the requirements of section 401(a), other
	than the requirement that the plan be funded by a trust created or organized in the United States.
е	☐ I certify that the entity identified in Part I is established exclusively to earn income for the benefit of one or more retirement funds
	described in this part or in an applicable Model 1 or Model 2 IGA, or accounts described in Regulations section 1.1471-5(b)(2)(i)(A) (referring to retirement and pension accounts), or retirement and pension accounts described in an applicable Model 1 or Model 2 IGA.
f	☐ I certify that the entity identified in Part I:
	• Is established and sponsored by a foreign government, international organization, central bank of issue, or government of a U.S. possessic (each as defined in Regulations section 1.1471-6) or an exempt beneficial owner described in an applicable Model 1 or Model 2 IGA to provide retirement, disability, or death benefits to beneficiaries or participants that are current or former employees of the sponsor (or person designated by such employees); or
	• Is established and sponsored by a foreign government, international organization, central bank of issue, or government of a U.S. possessic (each as defined in Regulations section 1.1471-6) or an exempt beneficial owner described in an applicable Model 1 or Model 2 IGA to provid retirement, disability, or death benefits to beneficiaries or participants that are not current or former employees of such sponsor, but are it consideration of personal services performed for the sponsor.
art	XVI Entity Wholly Owned by Exempt Beneficial Owners
30	☐ I certify that the entity identified in Part I:
	• Is an FFI solely because it is an investment entity;
	• Each direct holder of an equity interest in the investment entity is an exempt beneficial owner described in Regulations section 1.1471-6 or an applicable Model 1 or Model 2 IGA;
	• Each direct holder of a debt interest in the investment entity is either a depository institution (with respect to a loan made to such entity) or a exempt beneficial owner described in Regulations section 1.1471-6 or an applicable Model 1 or Model 2 IGA.
	• Has provided an owner reporting statement that contains the name, address, TIN (if any), chapter 4 status, and a description of the type of documentation provided to the withholding agent for every person that owns a debt interest constituting a financial account or direct equi interest in the entity; and
	• Has provided documentation establishing that every owner of the entity is an entity described in Regulations section 1.1471-6(b), (c), (d), (e) (f) and/or (g) without regard to whether such owners are beneficial owners.
art	XVII Territory Financial Institution
31	☐ I certify that the entity identified in Part I is a financial institution (other than an investment entity) that is incorporated or organized under the laws of a possession of the United States.
art	XVIII Excepted Nonfinancial Group Entity
32	☐ I certify that the entity identified in Part I:
	• Is a holding company, treasury center, or captive finance company and substantially all of the entity's activities are functions described in Regulations section 1.1471-5(e)(5)(i)(C) through (E);
	• Is a member of a nonfinancial group described in Regulations section 1.1471-5(e)(5)(i)(B);
	• Is not a depository or custodial institution (other than for members of the entity's expanded affiliated group); and
	• Does not function (or hold itself out) as an investment fund, such as a private equity fund, venture capital fund, leveraged buyout fund, or an investment vehicle with an investment strategy to acquire or fund companies and then hold interests in those companies as capital assets for investment purposes.
art	XIX Excepted Nonfinancial Start-Up Company
33	☐ I certify that the entity identified in Part I: • Was formed on (or, in the case of a new line of business, the date of board resolution approving the new line of business)
	(date must be less than 24 months prior to date of payment);
	• Is not yet operating a business and has no prior operating history or is investing capital in assets with the intent to operate a new line of business other than that of a financial institution or passive NFFE;
	• Is investing capital into assets with the intent to operate a business other than that of a financial institution; and
	• Does not function (or hold itself out) as an investment fund, such as a private equity fund, venture capital fund, leveraged buyout fund, or any investment vehicle whose purpose is to acquire or fund companies and then hold interests in those companies as capital assets for investment purposes.
art	
34	I certify that the entity identified in Part I:
	• Filed a plan of liquidation, filed a plan of reorganization, or filed for bankruptcy on
	 During the past 5 years has not been engaged in business as a financial institution or acted as a passive NFFE; Is either liquidating or emerging from a reorganization or bankruptcy with the intent to continue or recommence operations as a nonfinancial entity; and
	• Has, or will provide, documentary evidence such as a bankruptcy filing or other public documentation that supports its claim if it remains in bankruptcy or liquidation for more than 3 years.

Part	8BEN-E (Rev. 7-2017) Sol1(c) Organization
35	I certify that the entity identified in Part I is a 501(c) organization that:
	 Has been issued a determination letter from the IRS that is currently in effect concluding that the payee is a section 501(c) organization that is
	dated; or
	• Has provided a copy of an opinion from U.S. counsel certifying that the payee is a section 501(c) organization (without regard to whether the payee is a foreign private foundation).
Part	
36	I certify that the entity identified in Part I is a nonprofit organization that meets the following requirements.
	• The entity is established and maintained in its country of residence exclusively for religious, charitable, scientific, artistic, cultural or educational purpor
	• The entity is exempt from income tax in its country of residence;
	• The entity has no shareholders or members who have a proprietary or beneficial interest in its income or assets;
	• Neither the applicable laws of the entity's country of residence nor the entity's formation documents permit any income or assets of the entity to be distributed to, or applied for the benefit of, a private person or noncharitable entity other than pursuant to the conduct of the entity's charitable activities or as payment of reasonable compensation for services rendered or payment representing the fair market value of property which the entity has purchased; and
	• The applicable laws of the entity's country of residence or the entity's formation documents require that, upon the entity's liquidation or dissolution, all of its assets be distributed to an entity that is a foreign government, an integral part of a foreign government, a controlled entity of a foreign government, or another organization that is described in this part or escheats to the government of the entity's country of residence or any political subdivision thereof.
Part 2	Publicly Traded NFFE or NFFE Affiliate of a Publicly Traded Corporation
	box 37a or 37b, whichever applies.
37a	☐ I certify that:
	• The entity identified in Part I is a foreign corporation that is not a financial institution; and
	• The stock of such corporation is regularly traded on one or more established securities markets, including (name one securities exchange upon which the stock is regularly traded).
b	☐ I certify that:
	• The entity identified in Part I is a foreign corporation that is not a financial institution;
	• The entity identified in Part I is a member of the same expanded affiliated group as an entity the stock of which is regularly traded on an established securities market;
	• The name of the entity, the stock of which is regularly traded on an established securities market, is; and
	The name of the securities market on which the stock is regularly traded is
Part 2	
38	☐ I certify that:
	• The entity identified in Part I is an entity that is organized in a possession of the United States;
	• The entity identified in Part I:
	 (i) Does not accept deposits in the ordinary course of a banking or similar business; (ii) Does not hold, as a substantial portion of its business, financial assets for the account of others; or
	(iii) Is not an insurance company (or the holding company of an insurance company) that issues or is obligated to make payments with
	respect to a financial account; and
	• All of the owners of the entity identified in Part I are bona fide residents of the possession in which the NFFE is organized or incorporated.
Part 2	XV Active NFFE
39	I certify that:
	The entity identified in Part I is a foreign entity that is not a financial institution;
	• Less than 50% of such entity's gross income for the preceding calendar year is passive income; and
	• Less than 50% of the assets held by such entity are assets that produce or are held for the production of passive income (calculated as a weighted average of the percentage of passive assets measured quarterly) (see instructions for the definition of passive income).
Part 2	XVI Passive NFFE
40a	I certify that the entity identified in Part I is a foreign entity that is not a financial institution (other than an investment entity organized in a possession of the United States) and is not certifying its status as a publicly traded NFFE (or affiliate), excepted territory NFFE, active NFFE, direct reporting NFFE, or sponsored direct reporting NFFE.
Check	box 40b or 40c, whichever applies.
b	☐ I further certify that the entity identified in Part I has no substantial U.S. owners (or, if applicable, no controlling U.S. persons); or
С	☐ I further certify that the entity identified in Part I has provided the name, address, and TIN of each substantial U.S. owner (or, if applicable, controlling U.S. person) of the NFFE in Part XXIX.

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Part >	XVII Excepted Inter-Affilia	ate FFI				
41	☐ I certify that the entity identified in Part I:					
	Is a member of an expanded affiliated group;					
	 Does not maintain financial according Does not make withholdable page 	ounts (other than accounts maintained for m yments to any person other than to member	embers of its expanded affiliated group); s of its expanded affiliated group;			
	•	r than depository accounts in the country in gent other than a member of its expanded a	, , , ,	penses) with or receive		
	• Has not agreed to report under Reinstitution, including a member of i	egulations section 1.1471-4(d)(2)(ii)(C) or oth its expanded affiliated group.	erwise act as an agent for chapter 4 purpos	es on behalf of any financial		
Part X	XVIII Sponsored Direct R	eporting NFFE (see instructions fo	r when this is permitted)			
42	Name of sponsoring entity:					
43		ed in Part I is a direct reporting NFFE that is	sponsored by the entity identified on line	42.		
Part 2	XXIX Substantial U.S. Owr	ners of Passive NFFE				
substan		ne, address, and TIN of each substantial U.sm to an FFI treated as a reporting Model 1 ler an applicable IGA.				
	Name	Add	lress	TIN		
		_				
-		1				
		_				
Part 2	XXX Certification					
	enalties of perjury, I declare that I have ander penalties of perjury that:	examined the information on this form and to the b	pest of my knowledge and belief it is true, corre	ct, and complete. I further		
	•	form is the beneficial owner of all the income to whe this form for purposes of section 6050W;	nich this form relates, is using this form to certif	y its status for chapter 4		
	• The entity identified on line 1 of this t					
	The income to which this form relate	s is: (a) not effectively connected with the conduct treaty, or (c) the partner's share of a partnership's		effectively connected but is		
	-	changes, the beneficial owner is an exempt foreign	•			
Furtherm	nore, I authorize this form to be provided	d to any withholding agent that has control, receipt	t, or custody of the income of which the entity o	n line 1 is the beneficial		
owner or	any withholding agent that can disburs	e or make payments of the income of which the e	ntity on line 1 is the beneficial owner.			
l agree t	hat I will submit a new form within 30	0 days if any certification on this form become	s incorrect.			
Sign I	Here					
	/ 	al authorized to sign for beneficial owner	Print Name	Date (MM-DD-YYYY)		
	☐ I certify that I have	e the capacity to sign for the entity identi	fied on line 1 of this form.			
				W-8BEN-E (Rev. 7-2017)		
			Form '	** -01012111-12 (Rev. /-2017)		



PARTNERSHIP CERTIFICATION & AUTHORIZATION

FOR PARTNERSHIP ACCOUNTS ONLY

(general/limit "Partnership" HEREBY CE amended fro commodities possesses t Commodity F	igned general partner(s) of	ership ag the future dity Cont contempla	reement, delivery	/ of and
Name	Name			
Name	Name			
Partnership's limitation, the	hereby are authorized to act for the Partnership in every researcount(s) with Advantage; the authority hereby grant authority to do any or all of the following acts or actions neount(s) and the Commodity Contract transactions effected the	ted includ ecessary ir	ing, with	nout
purpose and exec	one or more accounts in the name of the Partnership woof trading in Commodity Contracts, and to execute in the nature and deliver to Advantage any and all agreements, docuecessary to the opening, maintenance and/or trading of such	ame of the iments, in:	Partners strument	ship
	sell and trade and agree to buy, sell and trade Commodity C e, which power shall include the power to sell "short";	ontracts, o	on margi	n or
	ve and promptly comply with any request or demand for a intention to liquidate, and any notice or demand of any other		margin,	any
(d) To borro	w funds from Advantage (on a secured basis) or its aff	iliates to	finance	any

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(e) To take such other actions as may be necessary or desirable to carry out the intent of the foregoing and the satisfaction of each and every obligation of the Partnership in connection

Commodity Contract transactions effected through or with Advantage; and

with the account and the Commodity Contract transactions effected therein.

Advantage is directed to send all written confirmations of all Commodity Contract transactions effected for the Partnership and carried in the account(s) and all statements of account of the Partnership with Advantage and other pertinent documents and records to (Name and Title of Partner or Agent) who is not authorized to trade with Advantage but hereby is authorized to receive and acquiesce in the correctness of such confirmations, statements, and other records and documents. In consideration of Advantage maintaining the account(s) of the Partnership the undersigned agrees that: (1) The undersigned is/are jointly and severally liable to Advantage for any and all obligations arising out of transactions in or relating to the account(s) of the Partnership with Advantage. (2) If there is any change in this Authorization or if any of the general partners withdraw from the Partnership, die or are judicially declared incompetent, the undersigned will notify Advantage in writing immediately. Until Advantage has actually received such written notice. Advantage shall be entitled to act in reliance on this Authorization. The Partnership will indemnify Advantage and hold Advantage harmless from and against any loss suffered or liability incurred in continuing to act in reliance on this Authorization prior to Advantage's actual receipt of such written notice. Any and all past transactions between the Partnership and Advantage of the kind provided for by this Authorization are hereby ratified, approved and confirmed in all respects. Dated this day of , 20 . General Partners: (EVERY GENERAL PARTNER MUST SIGN) Name, Please Print Signature Signature Name, Please Print Signature Name, Please Print Signature Name, Please Print Name, Please Print Signature Signature Name, Please Print

(Please provide a copy of the Partnership Agreement)

Name, Please Print

Name, Please Print

Signature

Signature

APPENDIX A TO § 1010.230 Certification Regarding Beneficial Owners Of Legal Entity Customers

I. GENERAL INSTRUCTIONS

What is this form?

To help the government fight financial crime, Federal regulation requires certain financial institutions to obtain, verify, and record information about the beneficial owners of legal entity customers. Legal entities can be abused to disguise involvement in terrorist financing, money laundering, tax evasion, corruption, fraud, and other financial crimes. Requiring the disclosure of key individuals who own or control a legal entity (i.e., the beneficial owners) helps law enforcement investigate and prosecute these crimes.

Who has to complete this form?

This form must be completed by the person opening a new account on behalf of a legal entity with any of the following U.S. financial institutions: (i) a bank or credit union; (ii) a broker or dealer in securities; (iii) a mutual fund; (iv) a futures commission merchant; or (v) an introducing broker in commodities.

For the purposes of this form, a legal entity includes a corporation, limited liability company, or other entity that is created by a filing of a public document with a Secretary of State or similar office, a general partnership, and any similar business entity formed in the United States or a foreign country. Legal entity does not include sole proprietorships, unincorporated associations, or natural persons opening accounts on their own behalf.

What information do I have to provide?

This form requires you to provide the name, address, date of birth and Social Security number (or passport number or other similar information, in the case of foreign persons) for the following individuals (i.e., the beneficial owners):

- (i) Each individual, if any, who owns, directly or indirectly, 25 percent or more of the equity interests of the legal entity customer (e.g., each natural person that owns 25 percent or more of the shares of a corporation); and
- (ii) An individual with significant responsibility for managing the legal entity customer (e.g., a Chief Executive Officer, Chief Financial Officer, Chief Operating Officer, Managing Member, General Partner, President, Vice President, or Treasurer).

The number of individuals that satisfy this definition of "beneficial owner" may vary. Under section (i), depending on the factual circumstances, up to four individuals (but as few as zero) may need to be identified. Regardless of the number of individuals identified under section (i), you must provide the identifying information of one individual under section (ii). It is possible that in some circumstances the same individual might be identified under both sections (e.g., the President of Acme, Inc. who also holds a 30 percent equity interest). Thus, a completed form will contain the identifying information of at least one individual (under section (ii)), and up to five individuals (i.e., one individual under section (ii) and four 25 percent equity holders under section (i)). The financial institution may also ask to see a copy of a driver's license or other identifying document for each beneficial owner listed on this form.

II. CERTIFICATION OF BENEFICIAL OWNER(S)

a. Name and Title of Natural Person Opening Account:

Persons opening an account on behalf of a legal entity must provide the following information:

- b	o. Name and Address of	Legal Entity for Which th	ne Account is Being Oper	ned:	
C	•		f any, who, directly or ind s 25 percent or more of t		-
	Name	Date of Birth	Address (Residential or Business Street Address)	For U.S. Persons: Social Security Number	For Foreign Persons: Passport Number and Country of Issuance, or other similar identification number ¹

(If no individual meets this definition, please write "Not Applicable.")

¹In lieu of a passport number, foreign persons may also provide an alien identification card number, or number and country of issuance of any other government-issued document evidencing nationality or residence and bearing a photograph or similar safeguard.

- d. The following information for one individual with significant responsibility for managing the legal entity listed above, such as:
 - An executive officer or senior manager (e.g., Chief Executive Officer, Chief Financial Officer, Chief Operating Officer, Managing Member, General Partner, President, Vice President, Treasurer); or
 - Any other individual who regularly performs similar functions. (If appropriate, an individual listed under section (c) above may also be listed in this section (d)).

Name	Date of Birth	Address (Residential or Business Street Address)	For U.S. Persons: Social Security Number	For Foreign Persons: Passport Number and Country of Issuance, or other similar identification number ¹

¹ In lieu of a passport number, foreign persons may also provide an alien identification card number, or number and country of issuance of any other government-issued document evidencing nationality or residence and bearing a photograph or similar safeguard.

l, (name of natural person opening account), hereby certify, to the best of my knowledge that the information provided above is complete and correct.					
Signature:		Date:			
Legal Entity Identifier	(Optional)				



PERSONAL GUARANTEE

Gua	order to induce Advantage Futu arantee is incorporated by refere	nce and attached, with		(referred
here pror	nerein as "Client"), and for other eby acknowledged, the undersig mpt, full and complete payment or erneys' fees, that may at any time	ned individual (the "Guarantor") of any and all obligations, dama	hereby uncondi	tionally guarantees the expenses, including
how claii Agre Gua with	e guarantee shall remain in full fowever, that the Guarantor shall now of Advantage against Client, we eement during the time period the arantee is one of payment, and report first having to take any action formance, in any respect, by Client	ot be released from its obligation which claim arises out of, or relate guarantee is in effect, that is not of collection. Advantage may n against Client. The Guarantor	ns hereunder so ted to, directly of not settled or dis exercise its right hereby express	long as there is any r indirectly, said Client charged in full. This its against the Guarantor
	s guarantee shall inure to benefit	_	rs and assigns, a	and shall be binding on
tne	Guarantor, his heirs and assigns	5.		
	e Guarantor acknowledges his ur ance upon this guarantee.	iderstanding that Advantage na	s permitted Ciler	it to trade in account in
	Guarantor's Signature	Print Guaranto	or's Name	
	Guarantor's Income	Guarantor's N (excluding val	et Worth ue of equity in prin	nary residence)
	Date of Birth	Social Security	y Number	
	Address	City	State	Zip Code
		☐ Office ☐ Home, ☐ Cell		
	Phone #		Date	

ALL GUARANTORS MUST PROVIDE A FINANCIAL STATEMENT

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CORPORATE GUARANTEE

In order to induce Advantage Futures LL Guarantee is incorporated by reference a to therein as "Client"), and for other good is hereby acknowledged, the unders guarantees the prompt, full and comple expenses, including attorneys' fees, that Client Agreement.	and attached, with and valuable consideration, the signed individual (the "Gua ete payment of any and all o	e receipt and s rantor") here obligations, da	referred (referred sufficiency of which by unconditionally amages, costs and
The guarantee shall remain in full force a however, that the Guarantor shall not be any claim of Advantage against Client, we Client Agreement during the time period full. This Guarantee is one of paymer against the Guarantor without first having expressly waives notice of non-perforobligations.	be released from its obligation which claim arises out of, or relathe guarantee is in effect, that nt, and not of collection. Adding to take any action against	s hereunder s ated to, direct t is not settle vantage may Client. The	so long as there is ly or indirectly, said d or discharged in exercise its rights Guarantor hereby
This guarantee shall inure to benefit of Adon the Guarantor, his heirs and assigns.	Ivantage and its successors an	d assigns, and	shall be binding
The Guarantor acknowledges his understain reliance upon this guarantee.	anding that Advantage has peri	mitted Client to	trade in account
Guarantor's Name			
Authorized Signatory of Guarantor			
Name and Title of Authorized Signatory (please print)		Guarantor's Net Worth	
Address	City	State	Zip Code
Telephone Number	Tax ID Number	Date	

ALL GUARANTORS MUST PROVIDE A FINANCIAL STATEMENT

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