Northrop Grumman Space & Mission Systems Corp.

NORTHROP GRUMMAN

Annual Representations and Certifications

Submitted By: The Pennsylvania State Univers	S	Supplier No. (see email): TBD	NGST Buyer's Name:	Form Code: Date:
If you would like to apply you the form.	ur Annual Reps/Cei	ris response to multiple NGS	3T suppler numbers, please indicate those additic	nments b
CAGE Code:	7A720	Pleas sear CAG CAG repor	Please input your CAGE Code in the field to the left. If you do not know what your CAGE Code is, you search for it using the web page located at http://www.bpn.gov/bincs/begin_search.asp . If you have a CAGE code, this data is mandatory and will be validated by our Procurement organization for Govern reporting purposes.	Please input your CAGE Code in the field to the left. If you do not know what your CAGE Code is, you can search for it using the web page located at http://www.bpn.gov/bincs/begún search.asp. If you have a CAGE code, this data is mandatory and will be validated by our Procurement organization for Government reporting purposes.
Supplier Legal Co. Name. The Pennsylvania State University	he Pennsylvania Sta	te University	Division: (optional)	
Sales Office Address:	110 Technology Center	Je		
City:	University Park	State: PA	Zip: 16802-7000 Country: US	1
Sales Contact Name: S	Sue Lavan	Phone: 814-865-7650	Fax: 814-865-2084 Email Address: sal5@psu.edu	mpe·nsd@
Supplier Accounting Contact Name:	James Mattern	Phone: 814-865-7525	Email Address: RES-ACCT@psu.edu	
(Quality Contact Info Optional)	al)			
Quality Contact Name:		Phone: ### ####	Fax: ### ### Email Address:	
☐NG Co./Affiliate?:		With	With what NG Sector?: -Select appropriate sector- ▼	
(Note: NG Company is 51% or more owned, Affiliate is 50% or less owned. Otherwise select 'Neither'.)	or more awned, Aff	ilíate is 50% or less owned.	Otherwise select 'Neither'.)	
Parent Company: (if applicable)	able)			
Parent Company Name: N/A	-			
Address:				
City:		State:	Zip: Country: US	1
Remittance Address:				
Is your remit address the same as your sales address	me as your sales ac	Yes 🕶	If no, please complete the fields below.	
Supplier Remit Name:		Division:		(optional)
Address:				
City:		State: Zi	Zip: Country: US	

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Payment Terms Code: BP - Net Due in 33 Days	Net 33 or better required for EFT payments
Check	selected if your bank is a US bank.
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yment Ty	T may only b

(if 1099 is 'Yes', then a W-9 must be submitted prior to SMS taking any action on your request. Attach the signed form below or fax to 310-496-1515 and make sure your supplier number has been written at the top of the W-9 and indicate that it is being submitted in support of your Reps/Certs.)

Accepts AmEx: | No

10992: | Yes ▼

C:\Documents and Settings\qzh2\Desktop\DARPA Mo Browse...

OASIS: NGST uses on-line communications as standard to support Procurement and Quality activities. Can you comply?

if so, please go to the Northrop Grumman Oasis site at https://oasis.northgrum.com/st/oasis account form.html, to sign up for your log in ID and password.

delivery schedules. Simply click the New User? Register Here! Link on this page or at the Global Village w ebsite. Training is available through Global Logistics Village. May we access Global Logistics Village to register if you currently do not have an account at https://glovill.com/scats/index.cfm This will allow you to ship, track and modify any items SCATS (Supply Chain Active Tracking System): NGST will use SCATS to better manage shipping costs for all receivable items from our supplier. You will be required to indicate that you are able to ship items to us using SCATS?

am interested in participating in the Evaluated Receipt Settlement program, have read the ERS letter and am willing to abide by the parameters found there.

• FOB Code: 4 - NOT APPLICABLE

(if FOB origin is preferred please use 5 - Ship Pt Frt Paid by NGST Acc#. ERS Vendors must be coded 1 or 5.)

(Do not use dashes or spaces)

TIN (Federal ID or Social Security): 246000376

advise will provide detail of each payment made to your bank by Northrop Grumman, including PO number, invoice number, dollars paid, date, etc.). or provide a dedicated email address that can be used by NGST to send the CTX remittance advice to. (A dedicated email address is recommended so that in the event of personnel changes the remittance payment method. If interested, suppliers will need to have established CTX remittance advise with their bank prior to requesting EFT payments from NGST (CTX remittance Electronic Funds Transfer (EFT): To use EFT your bank must be a U.S. bank. In an effort to streamline our PO payment procedures, NGST has begun offering the EFT advice emails will continue with minimal interruptions.) Please provide an email address for remittance notification. EFT Remittance Advice Email Address:

DUNS #: 003403953

•

TIN CodeType: 1 - Federal ID Number

additional information below. If you will be using EFT and your payments terms are currently Net 30, by signing and submitting this document you are agreeing to If you would you like to participate and you already have CTX in place with your bank or have provided a dedicated remittance email address above, please complete the accept payment terms of Net 33 days. Seller agrees to receive payments for such goods and/or services from Northrop Grumman via Electronic Funds Transfer (EFT) through the National Automated Clearing House Association (NACHA) system. This authority is to remain in effect until Northrop Grumman has received written notification of termination from Seller in such time and such manner as to afford Northrop Grumman a reasonable opportunity to act on it. Seller also authorizes the Bank listed below to verify the Seller's account information as necessary to establish the EFT.

IN NO EVENT SHALL NORTHROP GRUMMAN BE LIABLE FOR ANY SPECIAL, INCIDENTAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES AS A RESULT OF THE DELAY, OMISSION, OR ERROR OF AN ELECTRONIC CREDIT ENTRY, EVEN IF NORTHROP GRUMMAN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

such manner as to afford Northrop Grumman a reasonable opportunity to act on it. Seller also authorizes the Bank listed below to verify the Seller's account information as necessary to establish the EFT. IN NO EVENT SHALL NORTHROP GRUMMAN BE LIABLE FOR ANY SPECIAL, INCIDENTAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES AS A RESULT OF THE DELAY, OMISSION, OR ERROR OF AN ELECTRONIC CREDIT ENTRY, EVEN IF NORTHROP GRUMMAN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. In the event of duplicate payment, overpayment, fraudulent payment, or any payment made in error, Seller agrees to return any such payment to Northrop Grumman upon discovery of such error by Seller.

Bank Name:				
City:		State: Select One	Zip:	
Bank Contact:		Telephone. ### ### ####	#### ###	
NACHA Payment Format:	CTX - Remittance advice sent to bank with payment	ent to bank with payment		
Bank Routing/ABA#	(must be 9 digits):	Bank Account #:		Account Type: Checking 💌
Reset EFT				
North American Industrial Cl	North American Industrial Classification System (NAICS) Code is: 611310	ode is: 611310		
Export/Import Compliance Information: U.S. Companies (please answer 1 - 3 below):	! Information: nswer 1 - 3 below):			

1. Does your company employ non-U.S. persons? (A non-U.S. person is someone who is neither a U.S. citizen nor a green card holder.) a. If you answered yes to Question 1 (above), state the type of visa that authorizes the employment of such non-U.S. persons.

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- 2. Is your U.S. company owned by a foreign parent company? C Yes C No (Please always answer question 2b below) 2a. If you answered yes to Question 2 (above), state the name and country of establishment of your foreign parent company. Name:
- 2b. Does the U.S. company have procedures to protect technical data from unauthorized exports to foreign persons? C Yes C No Country:
- 3a. If you answered yes to Question 3 (above), will your company use such non-U.S. suppliers, offshore manufacturers, or your company's own offshore 3b. If you answered yes to Question 3 (above), does your company obtain export licenses from the Commerce Department or the State Department? 3. Does your company manufacture offshore or use non-U.S. suppliers or offshore manufacturers? C. Yes. C. No manufacturing facility/facilities to produce hardware for NGST? C Yes C No

3b(1). If you answered yes to Question 3b (above), click the radio button next to the name of the agency from which your company obtains export licenses. C Commerce Department C State Department C Yes C No

Foreign Companies (please answer 4 - 6 below);

- 4a. If you answered yes to Question 4 (above), in what country is the company headquarters? Does the company operate in multiple countries? C Yes C No
 - 4b. Does the company employ dual/third country nationals at your facility? $\, {\sf C} \,\,\, {\sf Yes} \,\,\, {\sf C} \,\,\, {\sf No}$
- ŝ 5. Will the company use domestic subcontractors in your country to fulfill its commitments to Northrop Grumman? C: Yes C

Reset Export/Import Compliance Questions

Supplier Certification of Background Checks on Applicable Personnel:

Background investigations are required on any supplier personnel to be given long-term visitor badges (more than 60 days in any 365 day period) permitting free and continuing unescorted access to Northrop Grumman facilities. Any adverse information must be shared with Northrop Grumman prior to badging (after Supplier has allowed the affected employee to respond to and potentially resolve anything believed to be in error). Supplier must retain copies of background investigations and make them available for verification by Northrop Grumman upon request.

years regarding employment dates, positions held, last salary, reason for termination, eligibility for rehire, reputation for honesty, integrity, reliability, atability, and competence, 2) The Supplier hereby certifies that Background Investigations performed on their applicable employees include the following: 1) inquiries with all employers over the past seven a criminal convictions check, including a check of Department of Motor Vehicles (DMV) violations, 3) verification of college degrees and professional licenses or certifications only required when this information is relevant to the nature of the work being performed for Northrop Grumman). All background investigations shall be conducted in accordance with professional investigative standards and applicable federal, state and local laws, including the federal Fair Credit Reporting Act.

Wilizing FAR 4.12 for guidance, Northrop Grumman Space and Mission Systems Corp. obtains annual representations and certifications from prospective suppliers. These representations and certifications are effective for one calendar year.

ELECTRONIC SIGNATURE AGREEMENT

Your acceptance of Northrop Grumman Space Technology's Electronic Signature Agreement is governed by the following:

ELECTRONIC SIGNATURE AGREEMENT SECTION 1. PURPOSE RECITALS

By clicking "I Accept" you are accepting the above legal agreement and consenting to send and receive information from NGST electronically.

If you do not accept the agreement, check the "I Do Not Accept" button, complete the form, print, sign and fax to 310-496-1515.

C I Accept @ I Do Not Accept

By signing and dating below, Supplier represents and certifies to the above clauses. Supplier agrees to advise Northrop Grumman Space and Mission Systems Corp. of any changes to this information prior to acceptance of any Purchase Order.

By signing below, I certify that the information provided is current, accurate and complete. Submitted By (Name):

Daish W. Kichadson

Title: Associate Vice President for Research

Date: 02/02/10

If you have questions regarding how to fill out this form, please contact your buyer or subcontract manager.

When printing, please select the "landscape" print setting, so all form print is visible.

Print

Form W-9 (Rev. October 2007)

Request for Taxpayer Identification Number and Certification

Give form to the requester. Do not send to the IRS.

	Revenue Service				dona to bio into.
		n your income tax return)			
2	The Demandrante State Materials				
වී	Business name, if different from above				
Ö.	G. E. C.				
ype tions o	Check appropriate box: Individual/Sole proprietor Corporation Partnership Limited Nability company. Enter the tax classification (D-clisregarded entity, C-corporation, P-partnership) Cother (see Instructions) Institute of Higher Education Address (number, street, and apt. or suite no.) 110 Technology Center Building City, state, and ZIP code University Park, PA 16802-7000				
2 2					
발발					
2.5	110 Technology Center Building				
O SEE	City, state, and ZIP code				
8	University Park, PA 16802-7000				
9	USIVEISITY PARK, PA 10002-7000				
ගී	Ust account number(s) here (optional)				
Part I Taxpayer Identification Number (TIN)					
i Kil	e raxpaye	i delidication ruliber (Till)			
Enter	vour TIN in the an	propriate box. The TIN provided must match the name given on Line 1:	to avoid	Social secur	ity number
backu	p withholding. For	individuals, this is your social security number (SSN). However, for a re	sident		
		disregarded entity, see the Part I instructions on page 3. For other entition number (EIN). If you do not have a number, see How to get a TIN or			or
Note.	If the account is i	n more than one name, see the chart on page 4 for guidelines on whose		Employer Id	entification number
	er to enter.	The state of the s		24	6000376
Pari	. Certifica	ation		L	· · · · · · · · · · · · · · · · · · ·
	penalties of perju				
		on this form is my correct texpayer identification number (or I am waiting	- for	har ta ha ias	has fam at house
		• • • • • • • • • • • • • • • • • • • •	-		
Re	venue Service (IR	packup withholding because: (a) I am exempt from backup withholding, b) that I am subject to backup withholding as a result of a fallure to rep no longer subject to backup withholding, and	ortall intere	st or divider	ids, or (c) the IRS has
3. la	m a U.S. citizen o	r other U.S. person (defined below).			
withho For m amang	ilding because you ortgage interest pa ement (IRA), and g	is. You must cross out item 2 above if you have been notified by the IR in have falled to report all interest and dividends on your tax return. For a sid, acquisition or abandonment of secured property, cancellation of deligenerally, payments other than interest and dividends, you are not required the lookquistions on page 4.	real estate t ot, contribul	ransactions, ions to an ir	item 2 does not apply. Idividual retirement
Sign Here		- I det	Date ▶		
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General Instructions

Section references are to the internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- 1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
 - 2. Certify that you are not subject to backup withholding, or
- 3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident allen,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States.
- · An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners! share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

. The U.S. owner of a disregarded entity and not the entity,

- The U.S. grantor or other owner of a grantor trust and not the trust, and
- The U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person, do not use Form W-9. Instead, use the appropriate Form W-8 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treatly to reduce or eliminate U.S. tax on certain types of income. However, most tax treatles contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

- The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
 - 2. The treaty article addressing the income:
- The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
- 4. The type and amount of income that qualifies for the exemption from tax.
- Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China Income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident allen for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident allen of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity not subject to backup withholding, give the requester the appropriate completed Form W-8.

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

- 1. You do not furnish your TIN to the requester,
- 2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),
- 3. The IRS tells the requester that you furnished an incorrect TIN,

- 4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
- You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See the instructions below and the separate instructions for the Requester of Form W-9.

Also see Special rules for partnerships on page 1.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and oriminal penalties.

Specific Instructions

Name

If you are an individual, you must generally enter the name shown on your income tax return. However, if you have changed your last name, for instance, due to marriage without informing the Social Security Administration of the name change, enter your first name, the last name shown on your social security card, and your new last name.

If the account is in joint names, list first, and then circle, the name of the person or entity whose number you entered in Part I of the form.

Sole proprietor. Enter your individual name as shown on your income tax return on the "Name" line. You may enter your business, trade, or "doing business as (DBA)" name on the "Business name" line.

Limited liability company (LLC). Check the "Limited liability company" box only and enter the appropriate code for the tax classification ("D" for disregarded entity, "C" for corporation, "P" for partnership) in the space provided.

For a single-member LLC (including a foreign LLC with a domestic owner) that is disregarded as an entity separate from its owner under Regulations section 301.7701-3, enter the owner's name on the "Name" line. Enter the LLC's name on the "Business name" line.

For an LLC classified as a partnership or a corporation, enter the LLC's name on the "Name" line and any business, trade, or DBA name on the "Business name" line.

Other entities. Enter your business name as shown on required federal tax documents on the "Name" line. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on the "Business name" line.

Note. You are requested to check the appropriate box for your status (Individual/sole proprietor, corporation, etc.).

Exempt Payee

If you are exempt from backup withholding, enter your name as described above and check the appropriate box for your status, then check the "Exempt payee" box in the line following the business name, sign and date the form.

Generally, individuals (including sole proprietors) are not exempt from backup withholding. Corporations are exempt from backup withholding for certain payments, such as interest and dividends.

Note. If you are exempt from backup withholding, you should still complete this form to avoid possible erroneous backup withholding.

The following payees are exempt from backup withholding:

- 1. An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2),
- 2. The United States or any of its agencies or instrumentalities,
- A state, the District of Columbia, a possession of the United States, or any of their political subdivisions or instrumentalities,
- 4. A foreign government or any of its political subdivisions, agencies, or instrumentalities, or
- 5. An international organization or any of its agencies or instrumentalities.

Other payees that may be exempt from backup withholding include:

- 6. A corporation,
- 7. A foreign central bank of issue,
- B. A dealer in securities or commodities required to register in the United States, the District of Columbia, or a possession of the United States.
- 9. A futures commission merchant registered with the Commodity Futures Trading Commission,
 - 10. A real estate investment trust,
- 11. An entity registered at all times during the tax year under the investment Company Act of 1940,
- 12. A common trust fund operated by a bank under section 584(a),
 - 13. A financial institution.
- 14. A middleman known in the investment community as a nominee or custodian, or
- 15. A trust exempt from tax under section 664 or described in section 4947.

The chart below shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 15.

IF the payment is for	THEN the payment is exempt for				
Interest and dividend payments	All exempt payees except for 9				
Broker transactions	Exempt payees 1 through 13. Also, a person registered under the investment Advisers Act of 1940 who regularly acts as a broker				
Barter exchange transactions and patronage dividends	Exempt payees 1 through 5				
Payments over \$600 required to be reported and direct sales over \$5,000	Generally, exempt payees 1 through 7				

¹See Form 1099-MISC, Miscellaneous income, and its instructions.

⁸However, the following payments made to a corporation (including gross proceeds paid to an attorney under section 6045(f), even if the attorney is a corporation) and reportable on Form 1099-MISC are not exempt from backup withholding; medical and health care payments, attorneys' fees, and payments for services paid by a federal executive agency.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see How to get a TIN below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see Limited liability company (LLC) on page 2), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN,

Note. See the chart on page 4 for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local Social Security Administration office or get this form online at www.ssa.gov. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.lrs.gov/businesses and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting www.irs.gov or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note. Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded domestic entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, and 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). Exempt payees, see Exempt Payee on page 2.

Signature requirements. Complete the certification as indicated in 1 through 5 below.

- 1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.
- 2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

- 3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.
- 4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).
- 5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

	For this type of account:	Give name and SSN of:
	individual Two or more individuals (bilnt	The individual The actual owner of the account or,
	account)	If combined funds, the first individual on the account
	Custodian account of a minor (Uniform Gift to Minors Act)	The minor *
4.	The usual revocable savings trust (grantor is also trustee)	The granter-trustee '
	b, So-called trust account that is not a legal or valid trust under state law	The actual owner 1
5.	Sole proprietorship or disregarded entity owned by an individual	The owner '
	For this type of account:	Give name and EIN of:
6.	Disregarded entity not owned by an individual	The owner
7.	A valid trust, estate, or pension trust	Legal entity
8.	Corporate or LLC electing corporate status on Form 8832	The corporation
9.	Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
10,	Partnership or multi-member LLC	The partnership
11.	A broker or registered nominee	The broker or nominee
12.	Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity

List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

Note, if no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, social security number (SSN), or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- · Protect your SSN,
- · Ensure your employer is protecting your SSN, and
- · Be careful when choosing a tax preparer.

Call the IRS at 1-800-829-1040 if you think your identity has been used inappropriately for tax purposes.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scarn the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov, You may also report misuse of the IRS name, logo, or other IRS personal property to the Treasury Inspector General for Tax Administration at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: spam@uce.gov or contact them at www.consumer.gov/idtheft or 1-877-IDTHEFT(438-4338).

Visit the IRS website at www.lrs.gov to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons who must file information returns with the IRS to report interest, dividends, and certain other income paid to you, mortgage interest you paid, the acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA, or Archer MSA or HSA. The IRS uses the numbers for identification purposes and to help verify the accuracy of your tax return, The IRS may also provide this information to the Department of Justice for civil and criminal litigation, and to cilities, states, the District of Columbia, and U.S. possessions to carry out their tax laws. We may also disclose this information to other countries under a tax treaty, to federal and state agencies to enforce federal nontax criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism.

You must provide your TIN whether or not you are required to file a tax return. Payers must generally withhold 28% of taxable interest, dividend, and certain other payments to a payer who does not give a TIN to a payer. Certain penalties may also apply.

²Circle the minor's name and furnish the minor's SSN.

You must show your inclividual name and you may also arter your business or "DBA" name on the second name fine. You may use either your 88N or EIN (if you have one), but the IRS encourages you to use your 88N.

⁴ List first and direls the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see Special rules for pannerships on page 1.