

<b>AWARD/CONTRACT</b>	1. This Contract Is A Rated Order Under DPAS (15 CFR 700)	Rating DOA4	Page 1 Of 14
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2. Contract (Proc. Inst. Ident) No. DAAE07-02-C-B004	3. Effective Date 2002MAY29	4. Requisition/Purchase Request/Project No. SEE SCHEDULE
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5. Issued By TACOM SFAE-GCS-W-BCTP SANDRA E. MCCARROLL (586)573-2072 WARREN, MICHIGAN 48397-5000  HTTP://CONTRACTING.TACOM.ARMY.MIL  e-mail address: MCCARROS@TACOM.ARMY.MIL	Code W56HZV	6. Administered By (If Other Than Item 5) DCMA DETROIT U. S. ARMY TANK-AUTOMOTIVE AND ARMAMENTS COMMAND (TACOM) BLDG 231 ATTN: DCMDE-GJD WARREN, MI 48397-5000  SCD C PAS NONE ADP PT HQ0337	Code S2305A
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7. Name And Address Of Contractor (No. Street, City, County, State, And Zip Code) MICHIGAN SCIENTIFIC CORP 730 BELLEVUE MILFORD, MI 48381-2209  TYPE BUSINESS: Other Small Business Performing in U.S.	8. Delivery <input type="checkbox"/> FOB Origin <input checked="" type="checkbox"/> Other (See Below) SEE SCHEDULE
	9. Discount For Prompt Payment Net 30 Days
	10. Submit Invoices (4 Copies Unless Otherwise Specified)  Item To The Address Shown In: 12

Code 0SVV1	Facility Code	11. Ship To/Mark For SHIPPING INSTRUCTIONS FOR CONSIGNEE (SHIP-TO) WILL BE FURNISHED PRIOR TO THE SCHEDULED DELIVERY DATE FOR ITEMS REQUIRED UNDER THIS REQUISITION.
	Code Y00000	12. Payment Will Be Made By DFAS - COLUMBUS CENTER NORTH ENTITLEMENT OPERATIONS P.O. BOX 182266 COLUMBUS OH 43218-2266

13. Authority For Using Other Than Full And Open Competition: <input checked="" type="checkbox"/> 10 U.S.C. 2304(c)(2) <input type="checkbox"/> 41 U.S.C. 253(c)	14. Accounting And Appropriation Data ACRN: AA 21 22040000025R5R07P643653255Y S20113 W56HZV
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15A. Item No. SEE SCHEDULE	15B. Schedule Of Supplies/Services CONTRACT TYPE: Firm-Fixed-Price	15C. Quantity	15D. Unit	15E. Unit Price	15F. Amount
15G. Total Amount Of Contract  \$249,600.00					

16. Table Of Contents							
(X)	Section	Description	Page(s)	(X)	Section	Description	Page(s)
Part I - The Schedule				Part II - Contract Clauses			
X	A	Solicitation/Contract Form	1	X	I	Contract Clauses	10
X	B	Supplies or Services and Prices/Costs	3	Part III - List Of Documents, Exhibits, And Other Attachments			
	C	Description/Specs./Work Statement			J	List of Attachments	
X	D	Packaging and Marking	4	Part IV - Representations And Instructions			
X	E	Inspection and Acceptance	5		K	Representations, Certifications, and Other Statements of Offerors	
X	F	Deliveries or Performance	6		L	Instrs., Conds., and Notices to Offerors	
X	G	Contract Administration Data	7		M	Evaluation Factors for Award	
X	H	Special Contract Requirements	8				

**Contracting Officer Will Complete Item 17 Or 18 As Applicable**

17. <input checked="" type="checkbox"/> Contractor's Negotiated Agreement (Contractor is required to sign this document and return 2 signed copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)	18. <input type="checkbox"/> Award (Contractor is not required to sign this document.) Your offer on Solicitation Number _____ including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.
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19A. Name And Title Of Signer (Type Or Print)	20A. Name Of Contracting Officer MAJ WOLF PETERMANN PETERMAW@TACOM.ARMY.MIL (586)753-2074
19B. Name of Contractor By _____ (Signature of person authorized to sign)	19c. Date Signed
20B. United States Of America By _____ /SIGNED/ (Signature of Contracting Officer)	20C. Date Signed 2002JUN10

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> DAAE07-02-C-B004 <b>MOD/AMD</b>	<b>Page</b> 2 <b>of</b> 14
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**Name of Offeror or Contractor:** MICHIGAN SCIENTIFIC CORP

SECTION A - SUPPLEMENTAL INFORMATION

Regulatory Cite	Title	Date
A-1 52.204-4850 (TACOM)	ACCEPTANCE APPENDIX	FEB/2002

(a) Contract Number DAAE07-02-C-B004 is awarded to Michigan Scientific Corporation. The Government accepts your proposal dated 1 May 2002, signed by Tom Johnson of your company.

(b) The contractor, in it's proposal, provided the following data for the listed clauses in this contract:

Section E, 52.246-4025, HIGHER-LEVEL CONTRACT QUALITY REQUIREMENT -- TACOM QUALITY SYSTEM REQUIREMENT: N/A

Section E, 52.246-4028, INSPECTION POINT: Destination

Shipping Characteristics: Best Commercial

Others: N/A

(c) Any attachments not included with this document will be provided by TACOM-Warren directly to the administrative contracting officer (ACO) via e-mail. A hard copy of the award will be sent to those ACOs not EDW (Electronic Document Workflow) capable. Technical data packages will be mailed by TACOM-Warren to the ACO on CD-ROM. Within one week of this award, any office not able to obtain these attachments from TACOM's website (<http://contracting.tacom.army.mil/>) and still requiring a copy, can request it by sending an e-mail message to the buyer listed on the front page of this contract.

N/A

(d) The following Amendment(s) to the solicitation are incorporated into this contract: N/A

[End of Clause]

1. Contract DAAE07-02-C-B004 is for delivery of the following items to the Government:

Item	Description	Qty	Price	Total
TR3D-A-ICV	5000 lb capacity 3D load cell for ICV Loading Platform. Includes Specifications and Calibration sheets.	96	\$2,300.00	\$220,800.00
SB-ICV	Summing Box for vertical and longitudinal channels on each platform.	24	\$500.00	\$12,000.00
Cable SB-MD	35' Cable for connecting summing box to recorder.	48	\$350.00	\$16,800.00
			Total	\$249,600.00

2. Contractor to coordinate delivery all items to Tank Automotive and Armaments Command, 6501 E. 11 Mile Road, ATTN: SFAE-GCS-BCT-E, Mr. Gary Schultz (586)-753-2109.

3. Incremental deliveries authorized.

4. Contractor shall provide the Government the same warranty coverage provided for commercial items.

5. This is a confirming order to the verbal order provided to the contractor on 29 May 2002. Contractor shall not duplicate this order.

\*\*\* END OF NARRATIVE A 001 \*\*\*



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## SECTION D - PACKAGING AND MARKING

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
D-1	52.247-4016 (TACOM)	HEAT TREATMENT AND MARKING OF WOOD PACKAGING MATERIALS	SEP/2001

All non-manufactured coniferous wood used in packaging, packing, palletization/unitization, skids, or internal blocking/bracing shall be constructed from Heat Treated (HT) [so that the core temperature of each piece of treated wood will reach 56 degrees Centigrade for 30 minutes(56/30)] material and certified by an accredited agency recognized by the American Lumber Standards Committee (ALSC) in accordance with Non-manufactured Wood Packing Policy and Non-manufactured Wood Packing Enforcement Regulations both dated May 30, 2001. The quality mark shall be placed on both ends of the outer packaging (between the end cleats or battens if applicable). Quality marks for pallets shall be placed on two opposite end posts. Quality mark for wood unitization components shall be placed on two opposite sides. Since Non-Manufactured Wood Packing(NMWP) made entirely of hardwoods are exempt from the EU emergency measure, no marking of this material is required. The National Wooden Pallet and Container Association (NWPCA), the largest organization of wooden packaging professionals in North America, is developing an optional mark for "hardwood only" NMWP. When a mixture of coniferous and non-coniferous wood packing is used in a box or pallet, the complete assembly shall be heat treated.

[End of Clause]

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## SECTION E - INSPECTION AND ACCEPTANCE

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
E-1	52.246-2	INSPECTION OF SUPPLIES--FIXED-PRICE	AUG/1996
E-2	52.246-16	RESPONSIBILITY FOR SUPPLIES	APR/1984

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## SECTION F - DELIVERIES OR PERFORMANCE

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
F-1	52.242-17	GOVERNMENT DELAY OF WORK	APR/1984
F-2	52.211-16	VARIATION IN QUANTITY	APR/1984

(a) A variation in the quantity of any item called for by this contract will not be accepted unless the variation has been caused by conditions of loading, shipping, or packing, or allowances in manufacturing processes, and then only to the extent, if any, specified in paragraph (b) below.

(b) The permissible variation shall be limited to:

     ZERO percent increase; and

     ZERO percent decrease.

(c) This increase or decrease shall apply to THE TOTAL CONTRACTUAL QUANTITY.

[End of Clause]

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SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/	OBLG	JOB	ACCOUNTING	OBLIGATED
<u>ITEM</u>	<u>AMS CD</u>	<u>ACRN STAT</u>	<u>ORDER</u>	<u>STATION</u>	<u>AMOUNT</u>
0001AA	X122C016X1	AA 2	21	22040000025R5R07P643653255Y S20113	249,600.00
	643653C0300				
				TOTAL	\$ 249,600.00

SERVICE	ACCOUNTING	OBLIGATED
<u>NAME</u>	<u>STATION</u>	<u>AMOUNT</u>
Army	W56HZV	\$ 249,600.00
	TOTAL	\$ 249,600.00

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## SECTION H - SPECIAL CONTRACT REQUIREMENTS

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
H-1	252.225-7001	BUY AMERICAN ACT AND BALANCE OF PAYMENTS PROGRAM	MAR/1998
H-2	252.225-7002	QUALIFYING COUNTRY SOURCES AS SUBCONTRACTORS	DEC/1991
H-3	252.225-7009	DUTY-FREE-ENTRY--QUALIFYING COUNTRY SUPPLIES (END PRODUCTS AND COMPONENTS)	AUG/2000
H-4	252.231-7000	SUPPLEMENTAL COST PRINCIPLES	DEC/1991
H-5	252.246-7000	MATERIAL INSPECTION AND RECEIVING REPORT	DEC/1991
H-6	52.204-4005 (TACOM)	REQUIRED USE OF ELECTRONIC COMMERCE	MAY/2000

(a) All contract awards, modifications and delivery orders issued by TACOM will be issued electronically. The contractor has the option to receive these actions either via the Worldwide Web (WWW) or Electronic Data Interchange (EDI). Many provisions/clauses that appear "by reference", meaning only clause titles and regulation site are listed; their full texts can be found at the website <http://farsite.hill.af.mil/>

(b) In order to be eligible to receive an award under this solicitation, the successful offeror must be registered with the Department of Defense (DOD) Central Contractor Registration (CCR). The CCR registration process may be done electronically at the World Wide Web (WWW) site: <http://www.ccr2000.com>. (In order to be registered to use EDI, you must use the long form for registration. Certification information, including information on the EDI 838 TPP, must be furnished to the Contracting Officer within 60 calendar days after contract award to complete networking requirements within the Government.)

(c) Worldwide Web Distribution. The contractor will receive an electronic Notice of the Award, Modification, or Delivery Order via e-mail. If you choose the WWW option, you must download the file from the appropriate TACOM webpage:

Warren: [http://contracting.tacom.army.mil/awards\\_official.htm](http://contracting.tacom.army.mil/awards_official.htm)  
Rock Island: <http://aais.ria.army.mil/AAIS/AWDINFO/index.htm>  
Picatinny: <http://procnnet.pica.army.mil/Contracts/Index.htm>  
Red River Army Depot: <http://www.redriver.army.mil/contracting/Awards>  
Anniston Army Depot: <http://www.anadprocnnet.army.mil>

(d) Electronic Data Interchange. If you choose to receive contract awards, modifications and delivery orders through EDI, they will be delivered electronically via the Federal Acquisition Network (FACNET). Federal Standard Version 3050 of Standard X12 from the American National Standards Institute (ANSI) will be used as the format for these electronic transactions.

(1) You must complete the EDI 838 Trading Partner Profile, and must agree (i) to subcontract with a DoD certified VAN or Value Added Service (VAS) provider, or (ii) to become DoD certified as a Value Added Network (VAN). The EDI 838 Training Partner Profile is contained in the basic CCR registration form and includes portions of the registration form which are titled "Optional".

(2) You must select a VAN from the official DoD approved list. DoD Certified VANs are listed at <http://www.acq.osd.mil/ec/ecip/index.htm>. If your VAN is later removed from the official list, or if you voluntarily drop your initially selected VAN, then you must switch to a VAN that remains on the official DoD approved list. You must maintain an active account on a DoD approved VAN for the entire duration of the contract, beginning no later than the 60th day after award.

(e) Additional information can be obtained by sending a message to: [acqcenweb@tacom.army.mil](mailto:acqcenweb@tacom.army.mil) or by calling (810) 574-7059.

[End of Clause]

H-7	52.246-4026 (TACOM)	LOCAL ADDRESSES FOR DD FORM 250	MAR/2002
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(a) The contractor must provide a copy of each Material Inspection and Receiving Report (DD 250) pertaining to this contract, to the addresses given below, using either of the following methods:

(1) Our first preference is for you to use electronic mail (e-mail), using the following e-mail address:

[DD250@tacom.army.mil](mailto:DD250@tacom.army.mil)

(2) Our second preference is for you to use data facsimile (datafax) transmission, using this fax number:

(586) 574-7552 and use "DD250 mailbox" in the "to:" block of your fax cover or header sheet.

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In either method, do not mix DD250s from more than one contract in a single transmission. That is, you may submit multiple DD250s in a single transmission, but they must all be against the same contract.

(b) These copies meet the requirements for the Purchasing Office copy and the Army Inventory Control Manager copy listed in tables 1 and 2 of DFARS Appendix F.

(c) The DD250 form may be found, in three different formats, on the World Wide Web at <http://webl.whs.osd.mil/icdhome/DD-0999.htm>

[End of Clause]

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## SECTION I - CONTRACT CLAUSES

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this address: <http://farsite.hill.af.mil/>

[End of Clause]

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
I-1	52.202-1	DEFINITIONS	MAY/2001
I-2	52.203-3	GRATUITIES	APR/1984
I-3	52.203-5	COVENANT AGAINST CONTINGENT FEES	APR/1984
I-4	52.203-6	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT	JUL/1995
I-5	52.203-7	ANTI-KICKBACK PROCEDURES	JUL/1995
I-6	52.203-8	CANCELLATION, RESCISSION AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY	JAN/1997
I-7	52.203-10	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY	JAN/1997
I-8	52.203-12	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS	JUN/1997
I-9	52.204-4	PRINTING/COPYING DOUBLE-SIDED ON RECYCLED PAPER	AUG/2000
I-10	52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT	JUL/1995
I-11	52.211-5	MATERIAL REQUIREMENTS	AUG/2000
I-12	52.215-2	AUDIT AND RECORDS - NEGOTIATIONS	JUN/1999
I-13	52.215-8	ORDER OF PRECEDENCE--UNIFORM CONTRACT FORMAT	OCT/1997
I-14	52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS	OCT/2000
I-15	52.222-1	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES	FEB/1997
I-16	52.222-4	CONTRACT WORK HOURS AND SAFETY STANDARDS ACT--OVERTIME COMPENSATION	SEP/2000
I-17	52.222-19	CHILD LABOR--COOPERATION WITH AUTHORITIES AND REMEDIES	FEB/2002
I-18	52.222-20	WALSH-HEALEY PUBLIC CONTRACTS ACT	DEC/1996
I-19	52.222-21	PROHIBITION OF SEGREGATED FACILITIES	FEB/1999
I-20	52.222-26	EQUAL OPPORTUNITY	APR/2002
I-21	52.222-35	AFFIRMATIVE ACTION FOR DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA	DEC/2001
I-22	52.222-36	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES	JUN/1998
I-23	52.222-37	EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS	DEC/2001
I-24	52.223-6	DRUG FREE WORKPLACE	MAY/2001
I-25	52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES	JUL/2000
I-26	52.227-1	AUTHORIZATION AND CONSENT	JUL/1995
I-27	52.227-2	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT	AUG/1996
I-28	52.229-5	TAXES--CONTRACTS PERFORMED IN U.S. POSSESSIONS OR PUERTO RICO	APR/1984
I-29	52.232-1	PAYMENTS	APR/1984
I-30	52.232-8	DISCOUNTS FOR PROMPT PAYMENT	FEB/2002
I-31	52.232-11	EXTRAS	APR/1984
I-32	52.232-17	INTEREST	JUN/1996
I-33	52.232-23	ASSIGNMENT OF CLAIMS	JAN/1986
I-34	52.232-25	PROMPT PAYMENT	FEB/2002
I-35	52.232-33	PAYMENT BY ELECTRONIC FUNDS TRANSFER--CENTRAL CONTRACTOR REGISTRATION	MAY/1999
I-36	52.233-1	DISPUTES	DEC/1998
I-37	52.233-3	PROTEST AFTER AWARD	AUG/1996
I-38	52.242-12	REPORT OF SHIPMENT (REPSHIP)	JUL/1995
I-39	52.242-13	BANKRUPTCY	JUL/1995
I-40	52.243-1	CHANGES--FIXED-PRICE	AUG/1987
I-41	52.246-23	LIMITATION OF LIABILITY	FEB/1997
I-42	52.248-1	VALUE ENGINEERING	FEB/2000
I-43	52.249-2	TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE)	SEP/1996
I-44	52.249-8	DEFAULT (FIXED-PRICE SUPPLY AND SERVICE)	APR/1984
I-45	52.253-1	COMPUTER GENERATED FORMS	JAN/1991
I-46	252.204-7003	CONTROL OF GOVERNMENT PERSONNEL WORK PRODUCT	APR/1992
I-47	252.209-7000	ACQUISITION FROM SUBCONTRACTORS SUBJECT TO ON-SITE INSPECTION UNDER THE INTERMEDIATE-RANGE NUCLEAR FORCES (INF) TREATY	NOV/1995
I-48	252.209-7004	SUBCONTRACTING WITH FIRMS THAT ARE OWNED OR CONTROLLED BY THE GOVERNMENT OF A TERRORIST COUNTRY per DoD interim rule, Federal Register 27 Mar 98	MAR/1998

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I-49	252.211-7005	SUBSTITUTIONS FOR MILITARY OR FEDERAL SPECIFICATIONS AND STANDARDS	AUG/2000
I-50	252.215-7000	PRICING ADJUSTMENTS	DEC/1991
I-51	252.225-7012	PREFERENCE FOR CERTAIN DOMESTIC COMMODITIES	AUG/2000
I-52	252.225-7014	PREFERENCE FOR DOMESTIC SPECIALTY METALS (ALT 1)	MAR/1998
I-53	252.225-7016	RESTRICTION ON ACQUISITION OF BALL AND ROLLER BEARINGS	DEC/2000
I-54	252.225-7025	RESTRICTION ON ACQUISITION OF FORGINGS	JUN/1997
I-55	252.225-7031	SECONDARY ARAB BOYCOTT OF ISRAEL	JUN/1992
I-56	252.226-7001	UTILIZATION OF INDIAN ORGANIZATIONS AND INDIAN-OWNED ECONOMIC ENTERPRISES	SEP/2001
I-57	252.243-7001	PRICING OF CONTRACT MODIFICATIONS	DEC/1991
I-58	252.244-7000	SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS (DoD CONTRACTS)	MAR/2000
I-59	52.223-11	OZONE-DEPLETING SUBSTANCES	MAY/2001

(a) Definition. Ozone-depleting substance, as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR part 82 as--

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
- (2) Class II, including but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j(b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

WARNING: Contains (or manufactured with, if applicable) \_\_\_\_\_ \* \_\_\_\_\_, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

\*The Contractor shall insert the name of the substance(s).

[End of Clause]

I-60	52.252-6	AUTHORIZED DEVIATIONS IN CLAUSES	APR/1984
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(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of (DEVIATION) after the date of the clause.

(b) The use in this solicitation or contract of any DoD FAR Supplement (DFARS) (48 CFR 2) clause with an authorized deviation is indicated by the addition of (DEVIATION) after the name of the regulation.

[End of Clause]

I-61	252.204-7004	REQUIRED CENTRAL CONTRACTOR REGISTRATION	MAR/2000
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(a) Definitions. As used in this clause--

(1) Central Contractor Registration (CCR) database means the primary DoD repository for contractor information required for the conduct of business with DoD.

(2) Data Universal Numbering System (DUNS) number means the 9-digit number assigned by Dun and Bradstreet Information Services to identify unique business entities.

(3) Data Universal Numbering System +4 (DUNS+4) number means the DUNS number assigned by Dun and Bradstreet plus a 4-digit suffix that may be assigned by a parent (controlling) business concern. This 4-digit suffix may be assigned at the discretion of the parent business concern for such purposes as identifying subunits or affiliates of the parent business concern.

(4) Registered in the CCR database means that all mandatory information, including the DUNS number or the DUNS+4 number, if applicable, and the corresponding Commercial and Government Entity (CAGE) code, is in the CCR database; the DUNS number and the CAGE code have been validated; and all edits have been successfully completed.



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(3) Freight charges are higher than charges to private persons for transportation of like goods.

(c) The Contractor must submit any request for use of other than U.S.-flag vessels in writing to the Contracting Officer at least 45 days prior to the sailing date necessary to meet its delivery schedules. The Contracting Officer will process requests submitted after such date(s) as expeditiously as possible, but the Contracting Officer's failure to grant approvals to meet the shipper's sailing date will not of itself constitute a compensable delay under this or any other clause of this contract. Requests shall contain at a minimum--

- (1) Type, weight, and cube of cargo;
- (2) Required shipping date;
- (3) Special handling and discharge requirements;
- (4) Loading and discharge points;
- (5) Name of shipper and consignee;
- (6) Prime contract number; and

(7) A documented description of efforts made to secure U.S.-flag vessels, including points of contact (with names and telephone numbers) with at least two U.S.-flag carriers contacted. Copies of telephone notes, telegraphic and facsimile message or letters will be sufficient for this purpose.

(d) The Contractor shall, within 30 days after each shipment covered by this clause, provide the Contracting Officer and the Division of National Cargo, Office of Market Development, Maritime Administration, U.S. Department of Transportation, Washington, DC 20590, one copy of the rated on board vessel operating carrier's ocean bill of lading, which shall contain the following information--

- (1) Prime contract number;
- (2) Name of vessel;
- (3) Vessel flag of registry;
- (4) Date of loading;
- (5) Port of loading;
- (6) Port of final discharge;
- (7) Description of commodity;
- (8) Gross weight in pounds and cubic feet if available;
- (9) Total ocean freight in U.S. dollars; and
- (10) Name of the steamship company.

(e) The Contractor agrees to provide with its final invoice under this contract a representation that to the best of its knowledge and belief--

- (1) No ocean transportation was used in the performance of this contract;
- (2) Ocean transportation was used and only U.S.-flag vessels were used for all ocean shipments under the contract;

(3) Ocean transportation was used, and the Contractor had the written consent of the Contracting Officer for all non-U.S.-flag ocean transportation; or

(4) Ocean transportation was used and some or all of the shipments were made on non-U.S.-flag vessels without the written consent of the Contracting Officer. The Contractor shall describe these shipments in the following format:

ITEM DESCRIPTION	CONTRACT LINE ITEMS	QUANTITY	TOTAL
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**CONTINUATION SHEET****Reference No. of Document Being Continued**

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MOD/AMD

**Name of Offeror or Contractor:** MICHIGAN SCIENTIFIC CORP

(f) If the final invoice does not include the required representation, the Government will reject and return it to the Contractor as an improper invoice for the purposes of the Prompt Payment clause of this contract. In the event there has been unauthorized use of non-U.S.-flag vessels in the performance of this contract, the Contracting Officer is entitled to equitably adjust the contract, based on the unauthorized use.

(g) The Contractor shall include this clause, including this paragraph (g) in all subcontracts under this contract, which exceed the small purchase limitation of section 13.000 of the Federal Acquisition Regulation.

[End of Clause]

I-63            52.204-4009            MANDATORY USE OF CONTRACTOR TO GOVERNMENT ELECTRONIC COMMUNICATION            JUN/1999  
(TACOM)

(a) All references in the contract to the submission of written documentation shall mean electronic submission. All electronic submissions shall be in the formats and media described in the "Electronic Quotations/Offers/Bids Required in Response to this Request for Quotations/Proposals/Bids" clause elsewhere in this document. (See Section K for commercial acquisitions, Section L for RFPs, and Section I for RFQs.)

(b) This shall include all written unclassified communications between the Government and the Contractor except contract awards and contract modifications which shall be posted on the internet. Return receipt shall be used if a commercial application is available. Classified information shall be handled in full accordance with the appropriate security requirements.

(c) In order to be contractually binding, all Government communications requiring a Contracting Officer signature must be sent from the Contracting Officer's e-mail address. The Contractor shall designate the personnel with signature authority who can contractually bind the contractor. All binding contractor communication shall be sent from this contractor e-mail address(es).

(d) Upon award, the Contractor shall provide the Contracting Officer with a list of e-mail addresses for all administrative and technical personnel assigned to this contract.

(e) Unless exempted by the Procuring Contracting Officer in writing, all unclassified written communication after contract award shall be transmitted electronically.

[End of Clause]