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1. CONTRACT/PURCH. ORDER/	2. DELIVERY OR	DER/ CALL NO.	3. DATE OF ORE	DERACALL	4. REQ./ P	URCH REQUES	T NO.		5. PRIORI	ΪΥ
AGREEMENT NO. M67004-99-D-0037	0048		2001Dec21		M95450	02RCR2BA	,			
6. ISSUED BY	CODE M67004	7 A	DMINISTERE	Yav	<u> </u>	COD	F N6288	30	┨	
CONTRACTS DEPARTMENT SANDRA WALKER (229) 639 P O DRAWER 43019 MARINE CORPS LOGISTICS ALBANY GA 31704-3019	CODE 891 -6771	OFI CH 536 RO	FICE OF NAVA ICAGO REGIO IS S CLARK STF OM 208 ICAGO IL 606	AL RESEAF IN REET	RCH	COL			X o	VERY FOB EST THER nedule if other)
9. CONTRACTOR	CODE 7A720	· ··· · · · · · · · · · · · · · · · ·	FACILITY	Ţ 	10. Ď	BLIVER TO FOR	POINT BY	(Date)	11. MAR	K IF BUSINESS IS
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UNIVERSITY PARK PA 1680					13 %	AIL INVOIC	ም ረ ጉ ር ም	IE ADI		OMEN-OWNED
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14. SHIP TO	CODE	15. P	AYMENT WIL	L BE MADI	E BY	CODE M	7443			
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l	nis delivery order/call is issued on	another Govt. agen	cy or in accordance v	with and subject	to terms and	conditions of ab	we numbered	contract.		·
TYPE CALL OF PURCHASE	eserence your quote dated				· · ·	I	Times to	Downing on	s terms specifi	es recent
1		SIGNATU	CREES TO PER	FORM THE	SAME.	BJECT TO AI			1S	DATE SIGNED (YYYYMMMDD)
17. ACCOUNTING AND APPRO	OPRIATION DATA/LOC	AL USE				·····				
See Schedule										
18. ITEM NO.	19. SCHEDULE OF S		EVICES		20. QUAN ORDE ACCE		1. UNIT	22. UN	IIT PRICE	23. AMOUNT
SI	EE SCHED	ULE				`				
* If quantity accepted by the Government i			STATES OF AM			l.	1	25.	TOTAL	\$24,870.00
quantry ordered, indicate by X. If different, quantity accepted below quantity ardered in		BY SANDRA	WALKER	CO CO	 MTRACTINI	G/ORDERING	OFFICER	29.	PERENCES	
26. QUANTITY IN COLUMN 20		To y . Cardenson	TTPLICE TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE	27. SHIP I	NO.	28. DO VOI	JCHER NO). <mark>30</mark> .		
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36.1 certify this account is correct and proper for payment. PARTIAL 35. BILL OF LAD										
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37. RECEIVED AT 38. R	ECEIVED BY		RECEIVED YMMMDD)	40. TOTA CONT	L AINERS	41. S/R ACC	COUNT NO	D. 42 .	S/R VOUC	CHER NO.
DD Form 1155, JAN 1998 (EG	j)		PREVIOUS	EDITION	MAY BE	ÚSED.				

6 3.

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SECTION B Supplies or Services and Prices

ITEM NO SUPPLIES/SERVICES MAX UNIT UNIT PRICE MAX AMOUNT

QUANTITY

0001 Academic & Research 1 Lot \$24,870.00 \$24,870.00

Support Services

The Contractor shall provide support to the Joint Non-Lethal Weapons Directorate in accordance with the Contract and as specified by the attached Task Description entitled:
"Non-Lethal Weapons: Acquisitions,
Capabilities, Doctrine, & Strategy:
A Course of Instruction".

ACCOUNTING AND APPROPRIATION DATA

AA:

1721319M4MX 250, 00802 0 067443 2D C2319A

AMOUNT: \$24,870.00

Document No. M9545002RCR2BA7

00002RCR2BA7

INVOICES:

Invoices shall be submitted in accordance with Section I of the basic contract.

DELIVERIES OR PERFORMANCE:

The period of performance shall be in accordance with the attached Task Description.

CUSTOMER'S POINT OF CONTACT (Government Use Only)

All customer (requiring activity) questions regarding performance of this contract/order, including delivery status/delivery acceleration, shall be addressed directly to the Government designated point of contact. Sandra E. Walker, Contracts Department Code 891at 229-639-6771 or FAX 229-639-6793.

THE MARINE CORPS RESEARCH UNIVERSITY

THE PENNSYLVANIA STATE UNIVERSITY TASK DESCRIPTION

TYPE OF T	ASK	6. SPONSOR TECHNICAL REPRESENTATIVE	R. PSU TECHNICAL REPRESENTATIVE		
LITEUT		(Name, Code, Agency, and Address)	(Name and Address)		
X Term/Saverable		Colonel G. P. Fenton, USMC	R. Madrid		
		Joint Non-Lethal Weapons Directorate	The Pennsylvania State University 17 Transportation Research Bidg		
Tem/N	ion-Severable	3097 Range Road	University Park, PA 16802-4709		
Comple	ation	Quantico, VA 22134-5100			
Completion		Joint Non-Lethal Weapons Directorate			
. ESTIMATE 30 May 2002	D COMPLETION DAT	Contracts POC: Ms. Patty Gore, 703-784-3049 x222			
. TOTAL ES	TIMATED COST (\$)				
-itouss:	\$24,870	<u> </u>			
ubsoninect:	\$0	6. SPONSOR TELEPHONE (Commercial and DSN)	8. PSU TELEPHONE		
OTAL:	\$24,870	703.784.2951 x 225	614,865.3911		
tall Hours	N/A	7. SPONSOR INTERNET ADDRESS	10. PSU INTERNET ADDRESS		
		fentongp@jnlwd.usmc.mil	rrm11@psu.edu		
1. SECURIT	Y CLASSIFICATION*				

13. DESCRIPTION OF WORK (If additional space is required use separate sheet)

and strategies.

The course is broken down into ten (10), three (3) hour sessions. A description of each session is provided below:

programs, describe how it is currently administered, review select non-lethal technologies and review the legal, medical and political implications of their use. The course will also examine how non-lethal technologies impact military factics, operations

- Session 1: Non-Lethal Weapons Where We Have Been/ Where We Are Today. This session will survey past
 uses of non-lethal weapons from Vietnam to Bosnia. It will examine development of non-lethal weapons to the
 present. A briefing on threat non-lethal weapons will be provided. This session will enumerate Congressional and DoD
 initiatives regarding non-lethal weapons and their underlying rationales. Classified: SECRET
- Session 2: New Capabilities NL Chemical Technologies. This session will examine current/future non-lethal
 chemical technologies for anti-personnel and anti-equipment uses. It will also consider their possible employment
 parameters and negative effects. Classified: SECRET
- Session 3: New Capabilities Electro-Magnetic Spectrum Technologies. This session will analyze technologies ranging from electromagnetic pulse to microwaves that could have anti-personnel and anti-equipment uses. It will examine their possible employment parameters and negative side effects. Classified: SECRET

 Session 4: NLW Development: The Legal Factors. This session will address the legal aspects of NLW development. It will consider applicable domestic as well as international laws. Unclassified 				
A Contri	act Security Classification Specification (DD Form	254) la required for Task Descriptions involving CLASSIFIED work.		
		Contract/Delivery Order Number: M67004-99-0-0037/0048		
		Attachment: #1		
	PSU Designator (For PSU Use)	Page 1 of 4		

MCRU PSU TASK DESCRIPTION (Continued)

13. DESCRIPTION OF WORK (Continued)

- Session 5: NLW Development: Political and Public Acceptability Considerations. This session will examine the political and public perception/acceptability aspects of NLW development. Unclassified
- Session 6: NLW Development: Strategy and Doctrine. This session will examine NLWs implications for joint doctrine, strategy and operations. This will include possible RQE and enemy countermeasures. Unclassified
- Session 7: NLW Development: Human Effects and Medical Implications. This session will examine the
 requirements to determine the human effects of NL weapons prior to acquisition and fielding. Discussion will include
 the definitions of non-lethal and less than lethal and how the definitions impact NLW human effect evaluations.
 Unclassified
- Session 8: New Capabilities Laser & High Energy Technologies. In this session we will explain lasers, optical
 devices and high energy weapons that could have anti-personnel and anti-equipment use. The seminar will also
 consider possible employment parameters and negative side effects. Unclassified
- Session 9: Current and Future NLW Employment. This session will address the current and future employment concepts for NLW. It will also cover lessons learned. Unclassified
- Session 10: NLW Scenarios. Students will present scenarios where non-lethal technologies can/could impact a given threat situation or historical event. Unclassified

Contract/Delivery Order Number: M57004-99-D-0057/ 0048	<u> </u>
Attachment #1	

MCRU PSU TASK DESCRIPTION (Continued)

10	4.	LIST DELIVERABLE PRODUCTS AND/OR REPORTS. ((Give Schedule)

- Monthly reports due by the 15th of each month.
- A 10 week NL course of instruction—complete NLT 29 March 2002.
- A flag officer point paper/detailed outline for each student presented NLW scenario.
- A course critique by students.

C COCCIAL REGULERATE ICE	Soecial Test Equipment, Foreign Travel, Special Onlive	uv Terme Other)

- Access to Joint Non-Lethal Weapons Directorate (JNLWD) information on changes/advances in NL technology.
- Participation of JNLWD personnel in the course to provide subject matter expertise on NL technologies.
- Use of JNLWO NL weapon prototypes (as appropriate) as training aids for the students.
- During the course, government subject matter experts provide classified informational briefings to the students. Since
 the PI does not present classified information but merely attends the classified briefings, a DD 254 is not required.

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6. SUBCONTRACTS (Haddilona	space is required, use separate sheet)		
Contractor	Scope of V	lorix	Estimated Cost
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			·
17. ENDORSEMENTS		: _	
DoMus	Red 1	V 42/01 Dete 2/19/01	814-865-3911
MCRU Program Manager		Date	Telephone
- the D Both	- INCMD	2/19/01	703-784-2646 ext 247
Task Spotsor	Organization and Code	Date	Telephone
		• 4	
Contracting Officer's Technica	d Representative	Date	Telephone
		;;· ———	COTA Internet Address
		Contract/Del	livery Order Number: <u>RE67894-99-D-8037/ ()()48</u>
		21 12	Attachment: #1
		::	Page 3 of 4
PSU Designeto		3.	
(For PSU Use)	15	

TITLE (From Page 1 of Task Description)

Non-Lethal Weapons: Acquisitions, Capabilities, Doctrine, & Strategy: A Course of Instruction

18. SPONSOR REI	PRESENTATIONS AN	D CERTIFICATIONS

- a. I have analyzed other sources for accomplishment of this task, but because of the need to (1) maintain a long term strategic relationship, (2) maintain continuity and currency in special fields of expertise, (3) maintain objectivity and a high degree of competency in staff and work, and (4) provide the ability to respond to emerging needs. I have chosen PSU to perform this task. Any subcontracting required in performance of this task is for supplies or services necessary to accomplish such work.
- b. The task clearly and adequately defines the work to be performed. Including applicable milestones, deliverables, and reporting requirements. I shall promptly notify the Contract Officer of any material changes in the scope of a Task which materially affects milestones, deliverables or reporting requirements. Such modifications shall be reflected in a written Task Description Revision. Any Task direction within the scope of this Task Description must also be issued in writing by the task sponsor and should be sent directly to PSU.
- c. The estimated direct labor staff hours and labor classifications, the estimated amounts for technical services and for direct subcontracts, and the estimated travel costs, as presented in the cost estimate for this Task Description have been reviewed and assessed as fair and reasonable, and where possible, by comparison to costs incurred for similar or related Tasks performed for this office by PSU and/or other contractors. The program sponsor acknowledges that when this Task is negotiated with the contracting agency, some elements of cost such as rates or material may change from the time of task submittal to the program sponsor, and that these changes may effect the number of staff hours estimated for delivery.
- d. A current Contract Security Classification Specification (DD Form 254) has been provided to MARCORMATCOM if the proposed work is classified. (See Block 11).

e. The work identified in this Task must carry a Defense Priorities and Allocations System (DPAS) rating in accordance

with FAR 11.6. This rating will be specified on subcontracts and purchase orders issued by PSU under Prime Contract. The work under this Task carries a DPAS rating of DO-A7 unless another rating and program identification symbol is identified here: f. If Special Test Equipment (STE) is identified in this task, (print or type name), a technical evaluator qualified to understand the criteria for classification of property, its composition, and its use, has determined that the property tisted in Block 15 as STE is properly classified in accordance with FAR 45.101. is not (check only one g. I have discussed this work with my controller's office, which concurs that this work appropriate) classified as Consulting Services (CS) as defined by SECNAVINST 4200.91C, or as defined by appropriate instructions applicable to my organization. (name and telephone number) of the controller's office of my organization has been supplied with a copy of this task and concurs with this CS/non-CS determination, and has authority to make such determinations. All funding supplied for this task will be appropriate for the CS determination. 18. I CERTIFY THAT THE ABOYE INFORMATION IS ACCURATE AND COMPLETE Date Telephone Sponeor Signature Name (Type or Printed)

THIS CERTIFICATION AND ENDORSEMENT MUST BE FORWARDED WITH THE ORIGINAL OF THE TASK DESCRIPTION TO MARCORMATCOM, WITH A COPY TO ARL/PSU

Contract/Delivery Order Number: M67004-99-D-6037/ 0048

Attachroent: #1

Page 4 of 4

PSU Designator (For PSU Use)