

Certificate of Registration



This Certificate issued under the seal of the Copyright Office in accordance with title 17, United States Code, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

Marybeth Peters

Register of Copyrights, United States of America

Form TX
For a Non-dramatic Literary Work
UNITED STATES COPYRIGHT OFFICE

TXu 1-273-319

 EFFECTIVE DATE OF REGISTRATION

Month 11 Day 30 Year 05

RATE CONTINUATION SHEET.

1 **TITLE OF THIS WORK** ▼
Test Procedures for Concept Validation of the US EKV National Missile Defense Program

PREVIOUS OR ALTERNATIVE TITLES ▼

PUBLICATION AS A CONTRIBUTION If this work was published as a contribution to a periodical, serial, or collection, give information about the collective work in which the contribution appeared. **Title of Collective Work** ▼

If published in a periodical or serial give: **Volume** ▼ **Number** ▼ **Issue Date** ▼ **On Pages** ▼

2 **a** **NAME OF AUTHOR** ▼
Dr. Nira Schwartz Woods

DATES OF BIRTH AND DEATH
Year Born ▼ 1946 Year Died ▼

Was this contribution to the work a "work made for hire"?
 Yes
 No

AUTHOR'S NATIONALITY OR DOMICILE
Name of Country
 OR { Citizen of ► United States of America
 Domiciled in ►

WAS THIS AUTHOR'S CONTRIBUTION TO THE WORK
 Anonymously? Yes No
 Pseudonymously? Yes No
If the answer to either of these questions is "Yes," see detailed instructions.

NOTE

Under the law, the "author" of a "work made for hire" is generally the employer, not the employee (see instructions). For any part of this work that was "made for hire" check "Yes" in the space provided, give the employer (or other person for whom the work was prepared) as "Author" of that part, and leave the space for dates of birth and death blank.

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. ▼
Scientific proof that US National Missile Defense Concept failed to comply with laws of physics

b **NAME OF AUTHOR** ▼

DATES OF BIRTH AND DEATH
Year Born ▼ Year Died ▼

Was this contribution to the work a "work made for hire"?
 Yes
 No

AUTHOR'S NATIONALITY OR DOMICILE
Name of Country
 OR { Citizen of ►
 Domiciled in ►

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c **NAME OF AUTHOR** ▼

DATES OF BIRTH AND DEATH
Year Born ▼ Year Died ▼

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 No

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Name of Country
 OR { Citizen of ►
 Domiciled in ►

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 Anonymously? Yes No
 Pseudonymously? Yes No
If the answer to either of these questions is "Yes," see detailed instructions.

NATURE OF AUTHORSHIP Briefly describe nature of material created by this author in which copyright is claimed. ▼

3 **a** **YEAR IN WHICH CREATION OF THIS WORK WAS COMPLETED**
1998
This information must be given in all cases.

b **DATE AND NATION OF FIRST PUBLICATION OF THIS PARTICULAR WORK**
 Complete this information ONLY if this work has been published. Month ► Day ► Year ► Nation

4 **COPYRIGHT CLAIMANT(S)** Name and address must be given even if the claimant is the same as the author given in space 2. ▼
 Dr. Nira Schwartz Woods
 2550 PCH # 68
 Torrance, CA 90505

APPLICATION RECEIVED

NOV 30 2005
 ONE DEPOSIT RECEIVED
 NOV 30 2005

TWO DEPOSITS RECEIVED

FUNDS RECEIVED

See instructions before completing this space.

DO NOT WRITE HERE OFFICE USE ONLY

EXAMINED BY cc/jbc FORM TX

CHECKED BY _____

CORRESPONDENCE
Yes

FOR
COPYRIGHT
OFFICE
USE
ONLY

DO NOT WRITE ABOVE THIS LINE. IF YOU NEED MORE SPACE, USE A SEPARATE CONTINUATION SHEET.

PREVIOUS REGISTRATION Has registration for this work, or for an earlier version of this work, already been made in the Copyright Office?

- Yes No If your answer is "Yes," why is another registration being sought? (Check appropriate box.) ▼
- a. This is the first published edition of a work previously registered in unpublished form.
- b. This is the first application submitted by this author as copyright claimant.
- c. This is a changed version of the work, as shown by space 6 on this application.
- If your answer is "Yes," give: Previous Registration Number ►

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DERIVATIVE WORK OR COMPILATION

Preexisting Material Identify any preexisting work or works that this work is based on or incorporates. ▼

a 6

Material Added to This Work Give a brief, general statement of the material that has been added to this work and in which copyright is claimed. ▼

b See instructions before completing this space.

DEPOSIT ACCOUNT If the registration fee is to be charged to a Deposit Account established in the Copyright Office, give name and number of Account. Name ▼ Account Number ▼

a 7

CORRESPONDENCE Give name and address to which correspondence about this application should be sent. Name/Address/Apt/City/State/ZIP ▼

Dr. Nira Schwartz Woods,
2550 PCH # 68,
Torrance, CA 90505

b

Area code and daytime telephone number ► 310-326-6174 Fax number ► 310-326-6176

Email ► nira7@aol.com

CERTIFICATION* I, the undersigned, hereby certify that I am the

Check only one ► author
 other copyright claimant
 owner of exclusive right(s)
 authorized agent of _____

of the work identified in this application and that the statements made by me in this application are correct to the best of my knowledge.

Name of author or other copyright claimant, or owner of exclusive right(s) ▲

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Typed or printed name and date ▼ If this application gives a date of publication in space 3, do not sign and submit it before that date.

Dr. Nira Schwartz Woods Date ► November 25, 2005

Handwritten signature (X) ▼

X Dr. Nira Schwartz Woods

Certificate will be mailed in window envelope to this address:

Name ▼
Dr. Nira Schwartz Woods

Number/Street/Apt ▼
2550 PCH # 68

City/State/ZIP ▼
Torrance, CA 90505

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• Complete all necessary spaces
• Sign your application in space 8

1. Application form
2. Nonrefundable filing fee in check or money order payable to Register of Copyrights
3. Deposit material

Library of Congress
Copyright Office - TX
101 Independence Avenue, S.E.
Washington, D.C. 20568-6222

Fee schedule to change. For current fees, check the Copyright Office website at www.copyright.gov, write the Copyright Office, or call (800) 785-2885.

*17 U.S.C. § 508(e): Any person who knowingly makes a false representation of a material fact in the application for copyright registration provided for by section 409, or in any written statement filed in connection

NRC TESTING

- (1). TEST THE TRW DISCRIMINATION ALGORITHM WITH:
 - a. VICTIM CODE
 - b. TRD CODE
- (2). COMPARE THE TEST RESULTS OF THE VICTIM AND TRD FOR pselect, Prank, AND SSPK.
- (3). SIGNATURE DATA WILL BE CREATED BY:
 - a. OPTISIG TML #20
 - b. REAL LIFE SENSOR FLIGHT TEST (TO INCLUDE JUNE 97 DATA)
- (4). SELECTED SCENARIOS WITH MULTIPLE PARAMETERS ARE PROVIDED IN THE ENCLOSED TABLE TITLED: "SCENARIO CASES WITH PARAMETERS".
- (5). IT IS RECOMMENDED THAT A SOFTWARE PROGRAM BE WRITTEN TO LOAD THE PARAMETER VALUES AUTOMATICALLY FOR INPUT IN BOTH VICTIM AND TFD.
- (6). WE RECOMMEND THAT ALL THE SCENARIOS IN THE TRD BE TESTED WITH A FULL RANGE OF PARAMETERS, USING THE SEVEN SCENARIOS WE PROVIDED AS AN EXAMPLE.
- (7). ALL OF THE SCENARIOS WE PROVIDED HAVE APPENDAGES OR TETHERS WITH THE EXCEPTION OF #10. THE TETHERS WILL MAKE THE ENTIRE ASSEMBLY APPEAR LONGER TO THE HOMING INTERCEPTOR. THE APPENDAGES (TAIL FINS) WILL MAKE THE RV'S APPEAR FARTHER FORWARD THAN IN ACTUAL REALITY.
- (8). WE RECOMMEND THAT THE SSPK WITH APPENDAGES/TETHERS BE COMPARED AGAINST THE SSPK WITHOUT APPENDAGES/TETHERS FOR EVALUATING THE PERFORMANCE OF THE TECHNOLOGY.
- (9). WE RECOMMEND THE A VARIETY OF DEPLOYMENT TEMPERATURES BE UTILIZED, WHEREIN THE RV CARRYING THE WARHEAD WILL HAVE THE LOWEST TEMPERATURE AND THE REMAINING RV'S, AND BALLOONS, WILL HAVE THE HIGHEST DEPLOYMENT TEMPERATURE.
- (10). WE RECOMMEND THAT THE DYNAMICS OF RV'S WITH APPENDAGES OR TETHERS BE MORE TUMBLING MOTIONS THAN RELAXED MOTIONS.
- (11). THE INITIAL ASPECT ANGLE SHOULD BE TESTED USING THE FOLLOWING VALUES/DEGREES: 0', 45', 90', 135', AND 180'.
- (12). THE REENTRY ANGLE SHOULD BE TESTED USING THE LOWEST RANGE, SELECTING A MEDIUM RANGE, AND HIGHEST RANGE OF PARAMETERS AS PROVIDED IN THE TABLE.
- (13). THE TIME OF FLIGHT, APOGEE ALTITUDE, BOOSTER BURN, REENTRY VELOCITY, AND RANGE SHOULD ALL BE TESTED USING THE LOWEST RANGE, SELECTING A MEDIUM RANGE, AND HIGHEST RANGE OF PARAMETERS AS PROVIDED IN THE TABLE.

- (14). THE SYSTEM SHOULD BE TESTED WITH A VARIETY OF SIGNATURES SHOULD BE. SOME MAY INCLUDE PERIODIC DISCONTINUITIES BETWEEN 0 AND 45 SECONDS AS PROVIDED IN OUR TABLE AND ON PAGE A-94/95 IN THE TRD.
- (15). THE SIGNATURES SHOULD INCLUDE MISSING DATA/GAPS OF PERIODS BETWEEN 0 AND 24 SECONDS AS PROVIDED IN THE TABLE.
- (16). THE TESTING SHOULD INCLUDE BOTH SUMMER AND WINTER ALONG WITH DAY AND NIGHT.
- (17). THE TEST SHOULD INCORPORATE PARAMETERS FOR ELECTROMAGNETIC FIELDS, NUCLEAR ENVIRONMENT, AND CLOUDS IN THE IR FIELD OF VIEW.
- (18). ADDITIONAL PARAMETERS ESSENTIAL FOR THE TESTING ARE PROVIDED BY PAGE# IN THE TABLE UNDER "ADD PARAMETERS".
- (19). SIMULATION AND ANTI-SIMULATION ARE RECOMMENDED. SIMULATION IS WHEN DECOYS ARE IDENTICAL TO THAT OF THE WARHEAD. ANTI-SIMULATION IS WHEN THE DECOYS ARE ALL DIFFERENT FROM THEMSELVES AS WELL AS THE WARHEAD.
- (20¹). NRC TESTS RESULTS SHOULD BE PROVIDED WITH A WRITTEN EXPLANATION, CHARTS, GRAFTS, AND CONCLUSIONS.
- (20) Cases were the technology failed to perform because of shortage of fuel should be reported

SCENARIO CASES WITH PARAMETERS

Scenarios	Reentry Angle [degrees] pg#	Time of Flight [seconds]	Apogee Altitude [km]	Booster Burn [m/sec]	Reentry Velocity [m/sec]	Range [km]	Aspect Angle [degrees]
2a SS-18 M5	15 - 45 A-104	1100 - 2500	600 - 2700	6000 - 7200	6500 - 7500	5000 - 11,500	0 - 180
5a SS-18 M6	16 - 45 A-109	1100 - 3000	250 - 3000	5600 - 7600	6500 - 7600	5000 - 13,500	0 - 180
9a CSS-4	15 - 45 A-143	1000 - 3500	400 - 3500	6000 - 7600	6500 - 7600	5500 - 11,000	0 - 180
10 CSS-4	15 - 70 A-143	1000 - 3500	400 - 3500	6000 - 7600	6500 - 7600	5500 - 11,000	0 - 180
12 SS-19 M3	15 - 30 A-114	500 - 2200	250 - 1750	6000 - 6500	6500 - 7000	6000 - 8,000	0 - 180
13 SS-N-18 M1	14 - 66 A-132	700 - 2100	600 - 2400	4100 - 6000	4200 - 6000	2000 - 6,700	0 - 180
14 SS-N-8 M2	8 - 84 A-127	450 - 2500	125 - 3300	3400 - 6900	4900 - 6900	500 - 8,500	0 - 180
Scenarios	Temperature rvs[k]	Temperature rvaos [k]	RVAO type	Append/Tether pg A-49,51,91	Balloons ATV-type A	Shroud Material	PEV Fragments Material
2a SS-18 M5	278 - 298	278 - 298	9, 8, 1 red	type 1 case 2	NA	Aluminum	Stainless Steel
5a SS-18 M6	278 - 298	NA	NA	type 1 case 1	NA	Aluminum	Aluminum
9a CSS-4	375 - 450	NA	NA	type 4 case 5	spherical w/bladder	Aluminum	Stainless Steel
10 CSS-4	375 - 450	NA	NA	NA	NA	Aluminum	NA
12 SS-19 M3	278 - 298	278 - 298	9, 8, 1 red	type 1 case 2	NA	Aluminum	Aluminum
13 SS-N-18 M1	278 - 298	NA	NA	type 2 case 2	NA	Aluminum	NA
14 SS-N-8 M2	375 - 450	NA	NA	type 4 case 2	NA	Aluminum	NA
Scenarios	Time Day/Year [H] Sum/Winter	Environment em,nuclear,cids	Deployment dyn Ws, Wp, Tp	Signatures discontinuity	Signature Gaps [sec]	Add Parameters TRD page #	Guidance Pkg
2a SS-18 M5	12am, 12pm, s,w	YES	10%, 90%, 15%	0 - 45 sec	0 - 24	A-12-13	
5a SS-18 M6	12am, 12pm, s,w	YES	10%, 90%, 15%	0 - 45 sec	0 - 24	A-19-22	
9a CSS-4	12am, 12pm, s,w	YES	20%, 90%, 15%	0 - 45 sec	0 - 24	A-31-33	
10 CSS-4	12am, 12pm, s,w	YES	10%, 90%, 15%	0 - 45 sec	0 - 24	A-31-33	
12 SS-19 M3	12am, 12pm, s,w	YES	10%, 90%, 15%	0 - 45 sec	0 - 24	A-23-24	
13 SS-N-18 M1	12am, 12pm, s,w	YES	20%, 90%, 15%	0 - 45 sec	0 - 24	A-39	
14 SS-N-8 M2	12am, 12pm, s,w	YES	10%, 90%, 15%	0 - 45 sec	0 - 24	A-38	yes