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FM JOINT STAFF WASHINGTON DC//J7//
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INFO RUEASWA/DTRA ALEX WASHINGTON DC
RUEKJCS/JOINT STAFF WASHINGTON DC
BT
UNCLAS SECTION 1 OF 2
SUBJ: JOINT PUBLICATION 3-12.1 PROGRAM DIRECTIVE

MSGID/GENADMIN/JOINT STAFF WASHINGTON DC/J7//
SUBJ/JOINT PUBLICATION 3-12.1 PROGRAM DIRECTIVE//
RMKS/1. THIS MESSAGE ANNOUNCES THE CONSOLIDATION OF JOINT
PUBLICATIONS (JP) 3-12.2, "NUCLEAR WEAPONS EMPLOYMENT EFFECTS DATA"
AND JP 3-12.3, "NUCLEAR WEAPONS EMPLOYMENT EFFECTS DATA (NOTIONAL)"
INTO A REVISED JP 3-12.1, "JOINT TACTICS, TECHNIQUES, AND PROCEDURES
FOR THEATER NUCLEAR PLANNING". THE CURRENT JP 3-12.1, "DOCTRINE FOR
JOINT THEATER NUCLEAR OPERATIONS" IS BEING MERGED INTO JP 3-12,
"JOINT DOCTRINE FOR NUCLEAR OPERATIONS". THIS MESSAGE ALSO ASSIGNS

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THE US ARMY AS THE LEAD AGENT AND THE JOINT STAFF J-5 AS THE JOINT
STAFF DOCTRINE SPONSOR. THE UNITED STATES STRATEGIC COMMAND
(USSTRATCOM) IS DESIGNATED THE TECHNICAL REVIEW AUTHORITY.
2. BACKGROUND. US JOINT FORCES COMMAND (USJFCOM) JOINT WARFIGHTING
CENTER (JWFC) ASSESSED THE UTILITY AND QUALITY OF CURRENT JP 3-12.2
AND JP 3-12.3. THE FINDINGS REFLECT THE ANALYSIS OF DATA COLLECTED
FROM NUMEROUS SOURCES, INCLUDING COMBATANT COMMANDS, SERVICES, AND
THE JOINT STAFF. ADDITIONAL DATA WAS COLLECTED THROUGH INTERVIEWS
WITH SUBJECT MATTER EXPERTS AND A REVIEW OF THE JOINT AFTER-ACTION
REPORTING SYSTEM, JOINT ELECTRONIC LIBRARY DATABASE, AND OTHER
APPLICABLE DATABASES. AS A RESULT OF THE ASSESSMENT, JWFC
RECOMMENDED JP 3-12.2 INCLUDE AN EXPANDED DISCUSSION OF JOINT
NUCLEAR PLANNING PROCESSES. REVISED TABLE OF CONTENTS
RECOMMENDATIONS ARE REFLECTED IN PARAGRAPH 4 OF THIS MESSAGE. THE
OTHER RECOMMENDATIONS CONTAINED IN THE ASSESSMENT REPORT WILL BE
CONSIDERED BY THE LEAD AGENT FOR INCLUSION IN THE REVISION OF JP
3-12.1. BASED ON THE SHIFT IN FOCUS FROM SPECIFIC NUCLEAR TARGETING

EFFECTS COMPUTATIONS METHODOLOGIES TO THE CLASSIFIED JOINT THEATER NUCLEAR PLANNING PROCESS, THE REQUIREMENT FOR JP 3-12.3, AN UNCLASSIFIED (TRAINING) VERSION OF JP 3-12.2, HAS BEEN ELIMINATED.

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3. SCOPE. JP 3-12.1 PROVIDES DOCTRINAL PROCEDURES AND EFFECTS DATA FOR THE EMPLOYMENT OF NUCLEAR WEAPONS AS WELL AS GUIDANCE TO THOSE WHO PLAN, COORDINATE, SUPPORT, AND EXECUTE NUCLEAR MISSIONS. IT COVERS THE CLASSIFIED OPERATIONAL CHARACTERISTICS OF NUCLEAR DELIVERY SYSTEMS AND NUCLEAR WEAPONS IN THE US STOCKPILE; THE CLASSIFIED EFFECTS DATA NECESSARY FOR TARGET ANALYSIS; AND THE TABULAR INFORMATION CONCERNING TARGET RESPONSE, PERSONNEL SAFETY, COLLATERAL DAMAGE, AND PRECLUSION OF DAMAGE.

4. CHAPTER OUTLINE:

- A. EXECUTIVE SUMMARY
- B. CHAPTER I JOINT THEATER NUCLEAR PLANNING OVERVIEW
 - 1) GENERAL
 - 2) PLANNING AND EMPLOYMENT
 - 3) EMPLOYMENT GUIDELINES
 - 4) GEOGRAPHIC COMBATANT COMMANDER (CINC) PLANNING FOR THEATER NUCLEAR OPERATIONS
 - 5) USSTRATCOM'S ROLE IN PLANNING THEATER NUCLEAR OPERATIONS
 - 6) JOINT STAFF ROLE IN PLANNING THEATER NUCLEAR OPERATIONS

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- 7) THEATER NUCLEAR OPERATIONS
- 8) NUCLEAR COMMAND AND CONTROL
- C. CHAPTER II JOINT THEATER NUCLEAR PLANNING PROCESS
 - 1) CONSIDERATIONS
 - 2) PLANNING PROCESSES
 - 3) PLANNING PROCESS PRODUCTS
- D. CHAPTER III JOINT THEATER NUCLEAR TARGETING PROCESS
 - 1) OVERVIEW
 - 2) TARGETING CONSIDERATIONS
 - 3) TARGETING CYCLE
 - 4) TARGET MATERIAL DEVELOPMENT AND MAINTENANCE
- E. CHAPTER IV SAFETY AND WEAPONS EFFECTS
 - 1) ANALYSIS PROCEDURES
 - 2) CASUALTY AND DAMAGE DATA
 - 3) SAFETY AND PRECLUDE DISTANCES

4) COLLATERAL DAMAGE DISTANCES

F. CHAPTER V TARGETING AND VULNERABILITY ASSESSMENT

EXAMPLES

- 1) OVERVIEW
- 2) TARGETING AND VULNERABILITY ASSESSMENT EXAMPLES

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WITH DESCRIPTIONS

G. APPENDIX A NUCLEAR WEAPONS: EFFECTS AND RESPONSES

- 1) GENERAL
- 2) NUCLEAR ENERGY PARTITION
- 3) WEAPON TYPE
- 4) BLAST
- 5) THERMAL RADIATION
- 6) NUCLEAR RADIATION
- 7) SPECIAL CONSIDERATIONS
- 8) RESPONSE TO BLAST
- 9) RESPONSE TO THERMAL RADIATION
- 10) RESPONSE TO NUCLEAR RADIATION
- 11) ADDITIONAL RESPONSES

H. APPENDIX B ANALYSIS OF FRIENDLY VULNERABILITY

- 1) GENERAL
- 2) PASSIVE PROTECTION
- 3) VULNERABILITY ANALYSIS
- 4) POST STRIKE HASTY ESTIMATION

I. APPENDIX C BLACKOUT EFFECTS OF NUCLEAR DETONATIONS ON RADIO COMMUNICATIONS AND RADAR TRANSMISSION/RECEPTION

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- 1) GENERAL
- 2) MITIGATION TECHNIQUES
- 3) DURATION TABLE

J. APPENDIX D SURVIVABILITY OF FRIENDLY ELECTRONIC EQUIPMENT FROM ELECTROMAGNETIC PULSE (EMP) EFFECTS

- 1) GENERAL
- 2) EQUIPMENT VULNERABILITY
- 3) ENVIRONMENT
- 4) EQUIPMENT VULNERABILITY CATEGORIES
- 5) ESTIMATED SAFE RADII FOR EQUIPMENT TABLE

K. APPENDIX E NUCLEAR WEAPONS AND DELIVERY SYSTEMS OPERATIONAL CHARACTERISTICS

- 1) GENERAL

2) REACTION TIME

3) ACCURACY

4) REFERENCE

5) AIRCRAFT CERTIFICATION

L. APPENDIX F NUCLEAR TARGET ANALYSIS PROCEDURES

1) ASSUMPTIONS

2) INFORMATION REQUIRED

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3) ANALYSIS PROCEDURE

4) EMPLOYMENT OF MULTIPLE WEAPONS

M. APPENDIX G DAMAGE ESTIMATION CONCEPTS

1) BASIC PROBABILITY

2) NUMERICAL INTERPRETATION

3) ACCURACY OF MEASUREMENT

4) SIGNIFICANT FIGURES

5) DISPERSION

6) DISTRIBUTION ERRORS

7) DAMAGE PREDICTION

8) PATTERNS OF DAMAGE

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9) CASUALTIES

10) LIMITING REQUIREMENTS

11) PERSONNEL SAFETY

12) COLLATERAL DAMAGE

13) DAMAGE AND OBSTACLE AVOIDANCE

N. APPENDIX H THEATER NUCLEAR OPTION (TNO) FORMAT

O. APPENDIX J NUCLEAR TARGET NOMINATION WORKSHEET

P. APPENDIX K REFERENCES

Q. APPENDIX L ADMINISTRATIVE INSTRUCTIONS

R. GLOSSARY

PART I ABBREVIATIONS AND ACRONYMS

PART II TERMS AND DEFINITIONS

5. RECOMMENDED TARGET AUDIENCE FOR JP 3-12.1 INCLUDES COMBATANT COMMANDERS, SUBORDINATE JOINT FORCE COMMANDS, SERVICES, JOINT STAFF, AND OTHER COMMANDS OR AGENCIES AS APPROPRIATE.

6. REFERENCE RELEVANT JOINT, MULTI-SERVICE, AND SERVICE DOCTRINE AND PROGRAM DIRECTIVES FOR PENDING PUBLICATIONS. IN ADDITION, OTHER SOURCES OF INFORMATION TO BE CONSIDERED ARE AS FOLLOWS:

A. PRESIDENTIAL DECISION DIRECTIVES AND NATIONAL SECURITY PRESIDENTIAL DIRECTIVES

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B. DEPARTMENT OF DEFENSE PUBLICATIONS AND DIRECTIVES

C. TREATIES AND AGREEMENTS

7. PROJECT DEVELOPMENT MILESTONES:

FIRST DRAFT RELEASE: SEP 02

SECOND DRAFT RELEASE: MAR 03

FINAL COORDINATION RELEASE: AUG 03

APPROVAL: JAN 04

8. THE LEAD AGENT IS DIRECTED TO COORDINATE WITH THE SERVICES, COMBATANT COMMANDS, AND APPROPRIATE DEFENSE AGENCIES THROUGHOUT THE

DEVELOPMENT PROCESS. COMBATANT COMMANDS AND SERVICES WILL HAVE THE OPPORTUNITY TO PARTICIPATE IN WORKING GROUPS THROUGHOUT THE DEVELOPMENT PROCESS.

9. JP 1-02 TERMINOLOGY WILL BE USED TO THE GREATEST EXTENT POSSIBLE. NEW TERMS SHOULD ONLY BE USED WHEN ESSENTIAL TO THE DEVELOPMENT AND UNDERSTANDING OF THE PROPOSED DOCTRINE. THE JOINT ELECTRONIC LIBRARY ON-LINE SERVICES WILL BE USED TO ENSURE THE LATEST APPROVED TERMINOLOGY IS USED.

10. POINTS OF CONTACT:

A. LEAD AGENT. LTC J.W. KORSNICK, JR., US ARMY NUCLEAR AND CHEMICAL AGENCY, DSN 656-7858, COMM: (703) 806-7858, EMAIL

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B. JOINT STAFF DOCTRINE SPONSOR. CDR MURRAY R. SNYDER, J-5, NUCLEAR AND COUNTER PROLIFERATION DIVISION, DSN 227-6187 OR COMM (703) 697-6187, E-MAIL MURRAY.SNYDER@JS.PENTAGON.MIL.

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D. JOINT STAFF J7. LT COL GAIL COLVIN, J-7/JDETD, DSN 222-6303, COMM: (703) 692-6303, E-MAIL COLVINGB@JS.PENTAGON.MIL

E. JOINT WARFIGHTING CENTER. DR TRITTEN, DSN 668-7236, COMM: (757) 686-7236, E-MAIL TRITTEN@HQJWFC.JFCOM.MIL//

BT

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