



governmentattic.org

"Rummaging in the government's attic"

Description of document:

National Nuclear Security Administration (NNSA) Title page and table of contents for each After-Action Report on a Nuclear Emergency Support Team (NEST) Exercise 1989-2020

Requested date:

04-January-2023

Release date:

20-March-2024

Posted date:

08-April-2024

Source of document:

FOIA request
NNSA-OGC FOIA Office
PO Box 5400
Albuquerque, NM 87185
Fax: (505) 284-7512
[NNSA Online FOIA Request Form](#)
Email: foiofficer@nnsa.doe.gov

The governmentattic.org web site ("the site") is a First Amendment free speech web site and is noncommercial and free to the public. The site and materials made available on the site, such as this file, are for reference only. The governmentattic.org web site and its principals have made every effort to make this information as complete and as accurate as possible, however, there may be mistakes and omissions, both typographical and in content. The governmentattic.org web site and its principals shall have neither liability nor responsibility to any person or entity with respect to any loss or damage caused, or alleged to have been caused, directly or indirectly, by the information provided on the governmentattic.org web site or in this file. The public records published on the site were obtained from government agencies using proper legal channels. Each document is identified as to the source. Any concerns about the contents of the site should be directed to the agency originating the document in question. GovernmentAttic.org is not responsible for the contents of documents published on the website.



Department of Energy
National Nuclear Security Administration
Office of the General Counsel
P.O. Box 5400
Albuquerque, NM 87185-5400



March 20, 2024

SENT VIA EMAIL

This letter is the National Nuclear Security Administration's (NNSA) final response your January 4, 2023, Freedom of Information Act (FOIA) request.

You requested a copy of the following:

"A copy of the title page, cover page, and table of contents of each after action report on a NEST exercise found with a reasonable search."

Your request was received in our office on March 27, 2023. Upon receipt, we forwarded your request to the NNSA Office of Counterterrorism and Counterproliferation (NA-80) to conduct a search for responsive records. We also forwarded your request to the NNSA Nevada Field Office (NA-NV) for search and processing.

NA-80 and NA-NV and its Management and Operating contractor, Mission Support and Test Services, LLC., located twenty-six (26) responsive documents. The documents are being provided as outlined below.

Responsive Documents

Twenty-six (26) documents are being provided to you with deletions pursuant to 5 U.S.C. § 552 (b)(6) and (b)(7)(c) (Exemption 6 and 7c of the FOIA):

1. NUWAIX 14 Interagency AAR
2. Vibrant Response 15 AAR
3. NUWAIX 17 AAR
4. Marble Challenge 1701 AAR
5. NUWAIX 19 AAR
6. Cobalt Magnet 2019 AAR
7. Marble Challenge 20-01 AAR
8. 1989 Nestor title - eDCRO_2403
9. 1990 Jigsaw III V1 title - eDCRO_2438
10. 1990 Jigsaw III V1 TOC - eDCRO_2440

11. 1990 Jigsaw III V2 title - eDCRO_2441
12. 1990 Jigsaw III V2 TOC - eDCRO_2442
13. 1994 Mirage Gold title - eDCRO_2404
14. 1995 Jigsaw title - eDCRO_2431
15. 1995 Jigsaw TOC - eDCRO_2436
16. 1995 Mile Shakedown cover - eDCRO_2407
17. 1995 Mile Shakedown title - eDCRO_2412
18. 1995 Mile Shakedown TOC 1 - eDCRO_2414
19. 1995 Mile Shakedown TOC 2 - eDCRO_2425
20. 1995 Mile Shakedown TOC 3 - eDCRO_2427
21. 1995 Mile Shakedown TOC 4 - eDCRO_2428
22. 1997 Jigsaw title - eDCRO_2443
23. 1997 Jigsaw TOC - eDCRO_3126
24. 1998 Ellipse Alpha cover memo - eDCRO_2405
25. 1998 Package Satyr title page - eDCRO_2445
26. 2001 Wasatch Rings cover memo - eDCRO_2406

Exemption 6 permits the withholding of personnel and medical files and similar files when the disclosure of such information would constitute a clearly unwarranted invasion of personal privacy. The purpose of Exemption 6 is to protect individuals from the injury and embarrassment that can result from the unnecessary disclosure of personal information. To determine whether disclosure would constitute a clearly unwarranted invasion of personal privacy, the public interest in disclosure, if any, must be balanced against the privacy interests that would be invaded by disclosure of the information. In this case, the names, titles, and contact information of employees have been withheld. Release of the information pertaining to these individuals will cause inevitable harassment and unwarranted invasion of personal privacy for this individual and could cause unwarranted scrutiny by persons or entities harboring political, philosophical, or other objections to the mission of the Nuclear Security Enterprise and our agency. NNSA has experienced a rise in phishing attempts as threat actors aim to obtain access to sensitive information as well as to Information Technology (IT) and Operational Technology (OT) networks, and release of employee names/email addresses will assist these threat actors in their efforts to gain access and exploit the agency's IT and OT systems.

In addition, release of this information would not shed light on the operations of the federal government since the underlying information related to the agency's actions is being provided. Since its release will not reveal anything of significance to the public, the interest in protecting against the invasion of privacy that would result to the individuals in question far outweighs the public interest in such disclosure.

Exemption 7(c) of the FOIA provides protection for, among other things, records or information compiled for law enforcement purposes and may be withheld from disclosure, but only to the extent that the production of such law enforcement records or information could reasonably be expected to constitute an unwarranted invasion of personal privacy. The information withheld under Exemption 7c includes names, titles, and contact information of agency employees who are federal law enforcement officers. Public identification of these individuals could conceivably subject them to harassment and annoyance in the conduct of their official duties and in their private lives.

The Department of Energy (DOE) regulation 10 CFR § 1004.1 provides that documents exempt from mandatory disclosure under the FOIA shall be released regardless of their exempt status, unless DOE determines that disclosure is contrary to public interest. For the reasons described above, NNSA has determined that release of the information described above is not in the public interest.

Pursuant to 10 CFR § 1004.7(b)(2), I am the individual responsible for the withholding of information pursuant to Exemptions 6 and 7c of the FOIA.

You may appeal DOE's withholding of information pursuant to 10 CFR § 1004.8(a). Such an appeal must be made in writing within 90 calendar days after receipt of this letter, addressed to the Director, Office of Hearings and Appeals, HG-1, U.S. Department of Energy, 1000 Independence Avenue SW, L'Enfant building, Washington, DC 20585. Your appeal must contain a concise statement of the grounds for the appeal and a description of the relief sought. **Please submit a copy of this letter with the appeal** and clearly mark both the envelope and the letter "Freedom of Information Appeal." Please specify that you are appealing DOE redactions. You may also submit your appeal by email (preferred method) to the following email, OHA.filings@hq.doe.gov, including the phrase "Freedom of Information Appeal" in the subject line. Thereafter, judicial review will be available to you in the District of Columbia or in the district where (1) you reside, (2) you have your principal place of business, or (3) the Department's records are situated.

You may contact me, NNSA's FOIA Public Liaison, Office of the General Counsel, at 1-866-747-5994, or by mail at Department of Energy, National Nuclear Security Administration, Office of the General Counsel, P.O. Box 5400, Albuquerque, NM 87185, for further assistance and to discuss any aspect of their request. Additionally, the requester may contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about the FOIA mediation services they offer. The contact information for OGIS is as follows: Office of Government Information Services, National Archives and Records Administration, 8601 Adelphi Road-OGIS, College Park, Maryland 20740-6001, e-mail at ogis@nara.gov; telephone (202) 741-5770; toll free 1-877-684-6448; or facsimile (202) 741-5769.

There are no fees chargeable to you. If you have questions about the processing of your request, please contact Ms. Keyyme Anchondo by e-mail at keyyme.anchondo-bustillos@nnsa.doe.gov, or write to the address above. Please reference Control Number FOIA 23-00134-KA.

Sincerely,

Christina H.
Hamblen

Digitally signed by
Christina H. Hamblen
Date: 2024.03.20
12:50:51 -06'00'

Christina H. Hamblen
FOIA Officer

Enclosures



NUWAIX 14

Interagency After Action Report

August 25, 2014

~~OFFICIAL USE ONLY~~

~~May be exempt from public release under the Freedom of Information Act (5 U.S.C. 552), exemption number and category: 7 – Law Enforcement~~

~~Department of Energy review required before public release~~

~~Name/Org: (b) (6), (b) (7)(C) - DOE/NA-42 Date: 8/25/2014~~

~~OFFICIAL USE ONLY~~

The NUWAIX 14 Interagency After Action Report has been approved for publication by:

(b) (6), (b) (7)(C)

2/26/15

Date

(b) (6), (b) (7)(C) ✓
Exercises and Evaluation
Oak Ridge Associated Universities

(b) (6), (b) (7)(C)

23 Feb 15

Date

(b) (6), (b) (7)(C)
Operations and Exercises
U.S. Department of Energy

(b) (6), (b) (7)(C)

2/23/15

Date

(b) (6), (b) (7)(C)
Office of Emergency Response
U.S. Department of Energy

ADMINISTRATIVE INFORMATION

This is an Interagency After Action Report. The information gathered in this AAR is classified as Official Use Only (OUO) and should be handled as sensitive information not to be disclosed to parties without need-to-know. This document should be safeguarded, handled, transmitted, and stored in accordance with appropriate security directives.

Points of Contact

(b) (6), (b) (7)(C)

Oak Ridge Associated Universities
Arlington, VA
(b) (6), (b) (7)(C)

@orise.orau.gov

(b) (6), (b) (7)(C)

U.S. Department of Energy/National Nuclear Security Administration
Washington, D.C.
(b) (6), (b) (7)(C)

@nnsa.doe.gov

TABLE OF CONTENTS

ADMINISTRATIVE INFORMATION	iii
EXECUTIVE SUMMARY	1
EVENT OVERVIEW	3
EXERCISE PARTICIPANTS	4
SUMMARY OF KEY EXERCISE EVENTS	5
EXERCISE RESULTS	7
APPENDIX A: EXERCISE DESIGN FINDINGS	16
APPENDIX B: SUPPLEMENTARY EXERCISE SUMMARY	19
APPENDIX C: CAPSTONE EXERCISE 2014 SUMMARY	20
APPENDIX D: ACRONYMS	22



Vibrant Response 15

DOE/NNSA Internal After Action Report

7/16/2015

The Vibrant Response 15 Internal After Action Report has been approved for publication by:

(b) (6), (b) (7)(C)

2/17/16
Date

(b) (6), (b) (7)(C)

National Exercise Group
Oak Ridge Institute of Science and Education

(b) (6), (b) (7)(C)

SMAReff 2016
Date

(b) (6), (b) (7)(C)
(b) (6), (b) (7)(C) Operations & Exercises

Office of Emergency Response
U.S. Department of Energy/National Nuclear Security Administration

(b) (6), (b) (7)(C)

3/17/16
Date

(b) (6), (b) (7)(C)
Office of Emergency Response
U.S. Department of Energy/National Nuclear Security Administration

ADMINISTRATIVE INFORMATION

Points of Contact

(b) (6), (b) (7)(C)

Oak Ridge Institute for Science and Education (ORISE)
Arlington, VA
(b) (6), (b) (7)(C)

@orau.org

(b) (6), (b) (7)(C)

U.S. Department of Energy/National Nuclear Security Administration
Washington, DC
(b) (6), (b) (7)(C)

@nnsa.doe.gov

TABLE OF CONTENTS

ADMINISTRATIVE INFORMATION	ii
EXECUTIVE SUMMARY	2
EVENT OVERVIEW	4
EVENT FINDINGS.....	6



NUWAIX 17

Department of Energy Internal After Action Report

June 28, 2017

~~OFFICIAL USE ONLY~~

~~May be exempt from public release under the Freedom of Information Act (5 U.S.C. 552) exemption number and category: 7 – Law Enforcement~~

~~Department of Energy review required before public release~~

~~Name/Org: (b) (6), (b) (7)(C) NA-42 28 June 2017~~

The NUWAIX 17 Internal After Action Report has been approved for publication by:

(b) (6), (b) (7)(C)

Date

(b) (6), (b) (7)(C)

Office of Counterterrorism and Counterproliferation
Department of Energy/National Nuclear Security Administration

(b) (6), (b) (7)(C)

Date

(b) (6), (b) (7)(C)

Office of Emergency Operations
Department of Energy/National Nuclear Security Administration

(b) (6), (b) (7)(C)

Date

(b) (6), (b) (7)(C), Operations & Exercises

Office of Nuclear Incident Response
Department of Energy/National Nuclear Security Administration

(b) (6), (b) (7)(C)

Date

(b) (6), (b) (7)(C), Operations and Exercises

Office of Emergency Operations
Department of Energy/National Nuclear Security Administration

(b) (6), (b) (7)(C)

Date

(b) (6), (b) (7)(C)

Office of Nuclear Incident Response
Department of Energy/National Nuclear Security Administration

ADMINISTRATIVE INFORMATION

This is an internal Department of Energy After Action Report. The information gathered in this AAR has been identified as *Official Use Only* and should be handled as sensitive information not to be disclosed to parties without need-to-know. This document should be safeguarded, handled, transmitted, and stored in accordance with appropriate security directives.

Points of Contact

(b) (6), (b) (7)(C)

Office of Emergency Operations
Department of Energy/National Nuclear Security Administration
Washington, DC
(b) (6), (b) (7)(C)
@nnsa.doe.gov

(b) (6), (b) (7)(C)

Office of Nuclear Incident Response
Department of Energy/National Nuclear Security Administration
Washington, DC
(b) (6), (b) (7)(C)
@nnsa.doe.gov

(b) (6), (b) (7)(C)

Office of Emergency Operations
Department of Energy/National Nuclear Security Administration
Washington, DC
(b) (6), (b) (7)(C)
@nnsa.doe.gov

TABLE OF CONTENTS

ADMINISTRATIVE INFORMATION.....	ii
EXECUTIVE SUMMARY	4
EVENT OVERVIEW.....	8
EVENT FINDINGS	10



Marble Challenge 17-01

Department of Energy Internal After Action Report

12/2016

~~OFFICIAL USE ONLY~~

~~May be exempt from public release under the Freedom of Information Act (5 U.S.C. 552), exemption number and category: 7 – Law Enforcement~~

~~Department of Energy review required before public release~~

~~Name/Org: (b) (6), (b) (7)(C) NA-42, 20 December 2016~~

The Marble Challenge 17-01 (MC 17-01) Internal After Action Report has been approved for publication by:

(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C)

Date

Drills and Exercises, Albuquerque

Office of Counterterrorism and Counterproliferation

Department of Energy/National Nuclear Security Administration

(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C)

Date

Office of Emergency Operations

Department of Energy/National Nuclear Security Administration

(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C)

Date

(b) (6), (b) (7)(C) Operations & Exercises

Office of Nuclear Incident Response

Department of Energy/National Nuclear Security Administration

(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C)

Date

(b) (6), (b) (7)(C) Operations and Exercises

Office of Emergency Operations

Department of Energy/National Nuclear Security Administration

(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C)

Date

Office of Nuclear Incident Response

Department of Energy/National Nuclear Security Administration

ADMINISTRATIVE INFORMATION

This is an internal Department of Energy After Action Report. The information gathered in this AAR has been identified as *Official Use Only* and should be handled as sensitive information not to be disclosed to parties without need-to-know. This document should be safeguarded, handled, transmitted, and stored in accordance with appropriate security directives.

Points of Contact

(b) (6), (b) (7)(C)

Office of Emergency Operations
Department of Energy/National Nuclear Security Administration
Washington, DC

(b) (6), (b) (7)(C)

@nnsa.doe.gov

(b) (6), (b) (7)(C)

Exercises

Office of Emergency Operations
Department of Energy/National Nuclear Security Administration
Washington, DC

(b) (6), (b) (7)(C)

@nnsa.doe.gov

(b) (6), (b) (7)(C)

Operations & Exercises

Office of Nuclear Incident Response
Department of Energy/National Nuclear Security Administration
Washington, DC

(b) (6), (b) (7)(C)

@nnsa.doe.gov

TABLE OF CONTENTS

ADMINISTRATIVE INFORMATION.....	ii
EXECUTIVE SUMMARY	2
EVENT OVERVIEW.....	7
EVENT FINDINGS	8
APPENDIX A: EXERCISE DESIGN FINDINGS.....	17

~~OFFICIAL USE ONLY~~



Interagency After Action Report

Handling Instructions

The DOE/NNSA maintains control of this document. This document may not be duplicated, reproduced or disseminated without prior approval from authorized DOE officials. This document contains information that may be exempt from public release pursuant 5 U.S.C. §552(b)(7)(C), (7) (E) and 7(F). Any request for this document must be referred to DOE/NNSA for an official determination.

Name/Org: (b) (6), (b) (7)(C) DOE-NA84 Date: 12/04/2019

~~OFFICIAL USE ONLY~~

The Nuclear Weapons Accident/Incident Exercise (NUWAIX) 19 After Action Report has been approved for publication by:

(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C)

Date

Office of Nuclear Incident Response

Department of Energy / National Nuclear Security Administration

(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C), Operations and Exercises

Office of Nuclear Incident Response

Department of Energy / National Nuclear Security Administration

Date

ADMINISTRATIVE INFORMATION

This is an interagency After Action Report (AAR) that has been coordinated by the Department of Energy. The information gathered in this AAR has been identified as Official Use Only and should be handled as sensitive information not to be disclosed to parties without a need-to-know. This document should be safeguarded, handled, transmitted, and stored in accordance with appropriate security directives.

Points of Contact

(b) (6), (b) (7)(C)

Office of Nuclear Incident Response
Department of Energy / National Nuclear Security Administration
Washington, DC
(b) (6), (b) (7)(C)

@nnsa.doe.gov

(b) (6), (b) (7)(C)

Office of Nuclear Incident Response
Department of Energy / National Nuclear Security Administration
Washington, DC
(b) (6), (b) (7)(C)

@nnsa.doe.gov

TABLE OF CONTENTS

ADMINISTRATIVE INFORMATION	iii
EXECUTIVE SUMMARY	1
Major Strengths.....	1
Primary Areas for Improvement	2
INTRODUCTION	3
Purpose of After Action Report	3
Scope.....	3
Scenario	3
Participation.....	3
Objectives	4
EVALUATION AND ASSESSMENT PROCESS	5
Overview.....	5
Capability Targets.....	5
ANALYSIS OF CAPABILITIES	7
Capability 1: Command and Control	7
Capability 2: Transportation Planning	12
Capability 3: Radiation Monitoring	13
Capability 4: Public Information and Warning.....	17
Capability 5: Planning Coordination.....	22
Capability 6: Physical Security and Access.....	25
Capability 7: Consequence Management Modeling	29
Capability 8: Information Management	31
Capability 9: Communications.....	35
EXERCISE DESIGN LESSONS LEARNED	37
APPENDIX A: IMPROVEMENT PLAN MATRIX	42



Cobalt Magnet 2019

Department of Energy

National Nuclear Security Administration

After Action Report

09/24/19

The Cobalt Magnet 19-01 After Action Report has been approved for publication by:

(b) (6), (b) (7)(C)

09/24/2019

Date

(b) (6), (b) (7)(C)

Consequence Management Program

Department of Energy

National Nuclear Security Administration

Administrative Information

This is the After Action Report (AAR) for the Cobalt Magnet 2019 (CM19) exercise. This document should be safeguarded, handled, transmitted, and stored in accordance with appropriate security directives.

Points of Contact

(b) (6), (b) (7)(C)

Consequence Management Program

Office of Nuclear Incident Response

Department of Energy (DOE)/National Nuclear Security Administration (NNSA)

Phone: (b) (6), (b) (7)(C)

(b) (6), (b) (7)(C) @nnsa.doe.gov

(b) (6), (b) (7)(C)

Office of Nuclear Incident Response (NA-84)

Department of Energy (DOE)/National Nuclear Security Administration (NNSA)

Phone: (b) (6), (b) (7)(C)

(b) (6), (b) (7)(C) @nnsa.doe.gov

(b) (6), (b) (7)(C)

Contractor to DOE/NNSA (NA-80)

Emergency Management Services International, Inc. (EMSI)

Phone: (b) (6), (b) (7)(C)

(b) (6), (b) (7)(C) @nnsa.doe.gov

Table of Contents

Administrative Information	iii
1.0 Background	1
Scenario.....	1
Participants.....	1
Exercise Objective	2
2.0 Summary of Findings	5
Analytical Methodology	5
3.0 Detailed Findings	6
Primary Focus Area 1: Command and Control.....	6
Topic 1.1: Incident Management Team (IMT)	6
Topic 1.2: Understanding and Communicating Organizational Roles and Responsibilities.....	6
Topic 1.3: Situational Awareness within the FRMAC.....	7
Topic 1.4: Information Sharing	8
Topic 1.5: Decision Making Framework Between RADCC, PMG, and Brevard County.....	9
Topic 1.6: Radiological Operations Support Specialists (ROSS)	9
Topic 1.7: Proactive Response Posture for FRMAC	10
Primary Focus Area 2: Public Information.....	10
Topic 2.1: JIC Team Coordination and Collaboration.....	10
Topic 2.2: Technical Support to JIC.....	11
Topic 2.3: Timeliness of Responses.....	12
Topic 2.4: Public Release of Information	13
Topic 3: Standard Operating Procedures (SOPs).....	14
Topic 3.1: Information Sharing	14
Topic 3.2: Response Activities.....	15
Topic 3.3: Technology	16
Topic 3.4: Analysis and Radiological Databases.....	17
Primary Focus Area 4: Training	17
Topic 4.1: RadResponder Training	17
Topic 4.2: Tailgate Field Team Training During Response/Exercise.....	18
Primary Focus Area 5: Exercise Design and Oversight	18
Topic 5.1: Planning	18
Topic 5.2: Conduct	21
Appendix A: Information Flow Analysis: CM19.....	24
Survey Form.....	24
Network Graph	24
Degree and Weighted Degree.....	26
Betweenness Centrality.....	26
Community Detection	28
Summary & Conclusions	30
Appendix B: Lessons Learned and Corrective Actions	31

Appendix C: Best Practices.....	38
Appendix D: Acronyms	41

~~OFFICIAL USE ONLY~~



Marble Challenge 20-01

DOE/NNSA Office of Nuclear Incident Response

Internal After Action Report

~~OFFICIAL USE ONLY~~

~~May be exempt from public release under the Freedom of Information Act (5 U.S.C. 552), exemption number and category:~~

~~7, Law Enforcement~~

~~Department of Energy review required before public release.~~

~~Name/Org: (b) (6), (b) (7)(C) /NNSA NA-84~~

~~Date: 3/25/2020~~

~~Guidance (if applicable): CG-RER-1, dated July 2002~~

Handling Instructions

The DOE/NNSA maintains control of this document. This document may not be duplicated, reproduced or disseminated without prior approval from authorized DOE officials. This document contains information that may be exempt from public release pursuant 5 U.S.C. §552(b)(7)(C), (7) (E) and 7(F). Any request for this document must be referred to DOE/NNSA for an official determination.

Name/Org: (b) (6), (b) (7)(C) / DOE-NA84 Date: 03/25/2020

~~OFFICIAL USE ONLY~~

The Marble Challenge (MC) 20-01 After Action Report has been approved for publication by:

(b) (6), (b) (7)(C)



(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C) Operations and Exercises

Office of Nuclear Incident Response

Department of Energy / National Nuclear Security Administration

Date

(b) (6), (b) (7)(C)



(b) (6), (b) (7)(C)

(b) (6), (b) (7)(C) Joint Technical Operations Team

Office of Nuclear Incident Response

Department of Energy / National Nuclear Security Administration

Date

ADMINISTRATIVE INFORMATION

This is an internal Department of Energy After Action Report (AAR). The information gathered in this AAR is identified as Official Use Only and should be handled as sensitive information not to be disclosed to parties without a need-to-know. This document should be safeguarded, handled, transmitted, and stored in accordance with appropriate security directives.

Points of Contact

(b) (6), (b) (7)(C)

Office of Nuclear Incident Response
Department of Energy / National Nuclear Security Administration
Washington, DC
(b) (6), (b) (7)(C)

@nnsa.doe.gov

(b) (6), (b) (7)(C)

Operations and Exercises
Office of Nuclear Incident Response
Department of Energy / National Nuclear Security Administration
Washington, DC
(b) (6), (b) (7)(C)

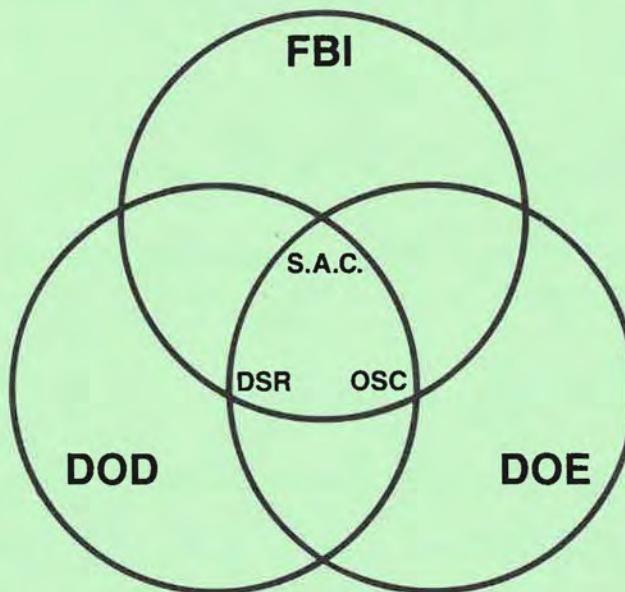
@nnsa.doe.gov

TABLE OF CONTENTS

ADMINISTRATIVE INFORMATION	ii
EXECUTIVE SUMMARY	4
Major Strengths.....	4
Primary Areas for Improvement	4
EVENT INFORMATION	5
Purpose of After Action Report	5
Scope.....	5
Participation	5
Scenario	5
Objectives	5
KEY FINDINGS.....	7
Major Strengths.....	7
Primary Areas for Improvement	7
APPENDIX A: ADDITIONAL FINDINGS AND ANALYSIS	10
APPENDIX B: ADMINISTRATIVE AND PROGRAM-LEVEL FINDINGS	23
APPENDIX C: EVALUATION AND ASSESSMENT PROCESS.....	25
Overview.....	25
Mission Capability Task List (MCTL)	25

NESTOR 89
NEST
JOINT OPERATIONS
CENTER EXERCISE

AFTER ACTION FINAL REPORT
(DRAFT)



AUTHORS: (b)(6), (b)(7)(C)
EXERCISE PLANNERS
PARTICIPANTS

DATE: NOVEMBER 1, 1989

NOT FOR PUBLIC
DISSEMINATION

May contain Unclassified Controlled Nuclear Information subject to section 148 of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2168). Approval by the Department of Energy prior to release is required.

(b)(6), b(7)(C)

UNCLASSIFIED

Does Not Contain
Unclassified Controlled
Nuclear Information
(c) (6) (b) (7)(C) /MSTS 13BM
April 13, 2023

~~MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION~~

LOS ALAMOS NATIONAL LABORATORY

Program Technical Note

Title: JIGSAW III EXERCISE: VOLUME I

Author(s): (b)(6), b(7)(C)

Jigsaw Exercise Planners
Working Group Chairmen
Jigsaw Participants

Date: January 19, 1990



Advanced Nuclear Technology

~~MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION~~

Does Not Contain
Unclassified Controlled
Nuclear Information
(b)(6), b(7)(C) MSTS 13BM
April 13, 2023

MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

VOLUME 1

TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
DESCRIPTION	2
LEARNING STAGE	2
TESTING STAGE	5
RESULTS	6
EXERCISE PLANNING	8
EXERCISE PLANNING SUMMARY	11
ATTACHMENTS	11

MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

Does Not Contain
Unclassified Controlled
Nuclear Information
(b)(6), b(7)(C) MSTS 13BM
April 13, 2023

~~MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION~~

LOS ALAMOS NATIONAL LABORATORY

Program Technical Note

Title: JIGSAW III EXERCISE: VOLUME II

Author(s): **(b)(6), b(7)(C)**

Jigsaw Exercise Planners
Working Group Chairmen
Jigsaw Participants

Date: January 19, 1990



Advanced Nuclear Technology

~~MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION~~

Does Not Contain
Unclassified Controlled
Nuclear Information
(b)(6), b(7)(C)/MSTS 13BM
April 13, 2023

MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

VOLUME 2

TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
REFERENCE DOCUMENTS	2
ATTACHMENT 1: Jigsaw Time Line	3
ATTACHMENT 2: Player Input Summary	20
ATTACHMENT 3: Lessons	25
ATTACHMENT 4: Notes from the CFS Meeting Following Jigsaw ill	30
ATTACHMENT 5: Lessons Learned from (b)(6), b(7)(C) and (b)(6), b(7)(C)	38
ATTACHMENT 6: Notes from a Disablement Field Team Meeting after Jigsaw ill	42
ATTACHMENT 7: Lesson on Intelligence Play	48
ATTACHMENT 8: Notes from Device Assessment	54
ATTACHMENT 9: Lessons from Damage Limitation	57
ATTACHMENT 10: Lessons from Diagnostics	61
ATTACHMENT 11: Observations from Diagnostic Home Team	65
ATTACHMENT 12: Lessons from TIDS	68
ATTACHMENT 13: Jigsaw ill Organization Chart	71
ATTACHMENT 14: Player's Guide	74
APPENDIX 1: Jigsaw ill Objectives	81
APPENDIX 2: Excerpt from On-Scene Commander's Handbook	90
APPENDIX 3: Proposed Joint OOE/EOD WP SOP	117
APPENDIX 4: Proposed DOE JTAC SOP	122
APPENDIX 5: Jigsaw ill Control Principles	125
APPENDIX 6: Jigsaw ill Moves	129
APPENDIX 7: Jigsaw III Participant List	145
APPENDIX 8: Participant Logistics	153
APPENDIX 9: Jigsaw III Information Summary	156
ATTACHMENT 15: Player Input Sheets	160

MAY CONTAIN UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

**DEPARTMENT OF THE ARMY
HEADQUARTERS FIFTH UNITED STATES ARMY
AND FORT SAM HOUSTON
FORT SAM HOUSTON, TEXAS 78234-7000**

AFKB-OP

15 NOV 94

**Exercise MIRAGE GOLD
After Action Report
16-21 Oct 94**



(b)(6), b(7)(C)

~~UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION~~

JIGSAW

Does Not Contain
Unclassified Controlled
Nuclear Information
~~(b)(6), b(7)(C)~~/MSTS 13BM
April 13, 2023

JIGSAW - 95

AFTER ACTION REPORT

Area 27

December 5 and 6, 1995

~~(b)(6) b(7)(C)~~

~~UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION~~

~~UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION~~

Jigsaw-95 After Action Report

February 9, 1996

TABLE OF CONTENTS

1. Executive Summary	1
1.1 Scope and Purpose.....	2
1.2 Objectives	2
1.2.1 General Objectives	2
1.2.2 Technical Objectives	3
1.3 Document Organization.....	4
1.4 Drill Highlights	4
1.5 Activity Time Line.....	4
2. Drill Organization and Logistics	6
2.1 Locations of Play	6
2.2 Logistics and Security	6
2.3 Communications.....	?
2.4 Working Point.....	7
2.5 Technical Operations Center.....	8
3. Working Point Access and Control.....	8
3.1 Forward Control Point	8
3.2 Working Point Supervisor	8
3.3 Forward Scientific Observer	8
3.4 Real World Security	9
3.4.1 Interaction between Play and "Real World".....	9
3.4.2 Lessons Learned	9
3.4.3 Action Items	9
4. Technical Operations.....	9
4.1 Diagnostics - Observations	10
4.2 Device Assessment - Observations	11
4.3 Disablement - Observations	11
4.4 Containment and Effects - Observations	11
4.5 IINNO - Observations	11
4.6 Command and Control - Observations	12
4.7 Operational Action Items	12
5. Training Event Planning and Execution	13
5.1 Successes	13
5.2 Problems	14
5.3 Lessons Learned	14
5.4 Action Items	14
5.5 Visitor and Guest management	15
6. References.....	15
Appendix A Planners.....	16
Appendix B Controller and Coach Assignments	17
Appendix C Players.....	18
Appendix D Guests and Visitors	22
Acronyms	23



Department of Energy

Nevada Operations Office
P. O. Box 98518
Las Vegas, NV 89193-8518

PLASS
R.L.

JUL 05 1995

EMND/PRT:DMD-95-133
JUL 7 1995
FBI LAS VEGAS
RECEIVED
FBI LAS VEGAS
JUL 7 1995

Distribution

MILE SHAKEDOWN AFTER-ACTION REPORT

A series of four Nuclear Emergency Search Team (NEST) inter-related exercises were held between December 1993 and October 1994. This series of exercises was called MILE SHAKEDOWN.

After completion of the exercise series, comments were solicited from participants. These comments were consolidated and corrective actions were identified. The enclosed report discusses major issues identified, outlines corrective actions, and assigns responsibility to the appropriate NEST working group.

In addition to this report, a second document compiling all comments and critiques was prepared. This is a compilation of the original critiques collected from participants, and was not evaluated against the objectives criteria developed for the exercise series. Subsequently, a number of comments or criticisms that are found in this document are not addressed in the report. This document is available upon request.

For further information on either document, please contact (b) (6)
(b) (6) or (b) (6).

(b) (6)

EMND/PRT:DMD-95-133

fu

Enclosure:
As stated

INFO: (b)(6), b(7)(C)

L-1D
SL-14
SL-21
-10
L-15
-11
RSL-21
+MO
2-10

CF

ONM 3-3

Does Not Contain
Unclassified Controlled
Nuclear Information
(b)(6), b(7)(C) MSTS 13BM
April 13, 2023

MILE SHAKEDOWN: A SERIES OF EXERCISES

AFTER ACTION REPORT

FINAL DRAFT

FEBRUARY 18, 1995

**U. S. DEPARTMENT OF ENERGY
NEVADA OPERATIONS OFFICE
LAS VEGAS, NEVADA**

~~UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION~~

~~NOT FOR PUBLIC DISSEMINATION~~

**~~UNAUTHORIZED DISSEMINATION SUBJECT TO CIVIL AND CRIMINAL
SANCTIONS UNDER SECTION 148 OF THE ATOMIC ENERGY ACT OF 1954, AS
AMENDED (42 USC 2168)~~**

UCNI - FINAL DRAFT

**MILE SHAKEDOWN: A SERIES OF EXERCISES
AFFER ACTION REPORT**

TABLE OF CONTENTS

I.	Executive Summary	1
II.	MICA DIG	3
A.	Summary	3
B.	Documentation	4
III.	EDRE	5
A.	Summary	5
B.	Documentation	7
IV.	MILD COVER	9
A.	Summary	9
B.	Documentation	10
V.	MIRAGE GOLD	11
A.	Overview of MIRAGE GOLD	11
B.	Planning Phase	11
1.	Planning Organization	12
2.	Planning Documentation Summaries	14
a.	Planning Guide	15
b.	Operations Plan	15
c.	Technical Support Plan	15
d.	Logistical Support Plan	17
e.	Safety Plan	18
f.	Security Plan	19
g.	IINNFO Implementation Plan	21
h.	Master Scenario Event List	22
C.	Scenario Brief	23
D.	Execution Phase: Documentation	27
1.	Planner Documentation	28
a.	Controller Handbook	28
b.	Player's Guide	28
c.	Tactical Turnover Procedure	29
d.	Forensic Guidelines	29

UCNI - FINAL DRAFT

2.	Player Documentation	30
a.	Search Plan	30
b.	Diagnostics Plan	31
c.	Disablement Plan	32
d.	Containment Plan	33
3.	IINNFO Applications	33
a.	Player	33
b.	Controller	34
VI. MAJOR ISSUES		37
A.	Policies and Procedures	37
1.	Interagency	37
a.	Interagency Agreements	37
b.	Joint Field Operations	39
2.	DOE Policy	40
B.	Deployment	41
C.	Technical	43
1.	Overview of Common Technical Problems	43
2.	Search	45
a.	Interfaces	45
b.	Search Organization	46
3.	Access	46
4.	Diagnostics	48
5.	Disablement	49
6.	Containment and Effects	50
7.	Reentry and Forensics	51
D.	Information Management	53
1.	Intelligence	53
a.	Intelligence Flow	53
b.	Intelligence Database	55
c.	Dual Intelligence Base	56
2.	IINNFO	56
3.	Information Transfer	58
E.	Training Qualifications	58
1.	Training	58
2.	Deployment Authorization Program	61
3.	Position Descriptions	62
F.	Communications	62
G.	Exercise Management	64
1.	Simulation/Realism	65
2.	Exercise Planning	67
3.	Controller/Player Interaction	68

**UCNI - FINAL
DRAFT**

VII. Non-Written Documentation	71
VIII. Conclusions	73
Appendix I: Critiques, Evaluations, and Recommendations	75
1. Planning of Exercise	76
a. Process	76
b. Orgarnization	79
c. Site Selection	79
d. Indemnification	80
e. Agency Commitment	80
f. Prestaging	83
g. Scenario	83
2. Administration of Exercise	86
a. Control Cell Staffing	86
b. Control Cell Access	86
c. Controller Organization	87
d. Controller Interaction with Players	88
e. Safety	89
f. Security	90
g. Logistical Support	91
h. Technical Support to Players	93
i. Control of Interagency Operations	93
j. Controller Training	95
k. Evaluation	96
3. Player Activity in Exercise	96
a. Command and Control	96
(1) Joint Operations Center	96
(2) ESO of DOE Assets	97
(3) FBI as Lead Agency	101
(4) Intelligence Flow	102
(5) Tactical Operations	105
(6) Interagency Operations Coordination	105
(7) DoD Assets	111
b. Interagency Liaison	119
c. Logistical Support of NEST Activities	120
d. Communications	123
(1) Radio	123
(2) IIINFO	124
(3) Briefings to Players	128
(4) Interagency	130
(5) Adequacy Between NEST Personnel	131

UCNI – FINAL DRAFT

(6) Of Technical Information to Appropriate User	133
(7) Phones	133
e. Technical Planning and Operations	134
(1) Search	134
(2) Diagnostics	140
(3) Disablement	142
(4) Containment.....	144
(5) Public Management and Evacuation	146
(6) Re-entry	146
(7) Forensics	147
(8) Access	148
(9) Consequence Management	149
f. Media and Public Affairs	150
(1) Joint Information Center	150
(2) Interagency Activity	151
(3) Local and State Government Incorporation	151
g. Prior Training and Qualification	152
Appendix II: Glossary	157

Does Not Contain
Unclassified Controlled
Nuclear Information
(b)(6), b(7)(C)/MSTS 13BM
April 13, 2023

~~UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION~~

JIGSAW-97 After Action Report

June 3, 1997

JIGSAW -97

AFTER ACTION REPORT

Los Alamos National Laboratory

March 24 27, 1997

~~UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION NOT FOR
PUBLIC DISSEMINATION~~

~~Unauthorized dissemination subject to civil and criminal sanctions under Section 148
of the Atomic Energy Act of 1954, as amended (42 USC 2168)~~

Reviewing

Official: **(b)(6), b(7)(C)**

Special Program and Technology Development Date: **May 21, 1997**

~~UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION~~

(b)(6), b(7)(C)

~~UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION~~

JIGSAW-97 After Action Report

May 21, 1997

TABLE OF CONTENTS

1. Executive Summary	1
2. Objectives.....	1
<i>2.1 Introduction</i>	<i>1</i>
<i>2.2 Scope and Purpose.....</i>	<i>2</i>
<i>2.3 General Objectives</i>	<i>2</i>
<i>2.4 Technical Objectives.....</i>	<i>3</i>
<i>2.5 Drill Highlights</i>	<i>6</i>
<i>2.6 Conclusions and Recommendations</i>	<i>7</i>
3. Drill Organization and Logistics	8
<i>3.1 Control.....</i>	<i>8</i>
<i>3.2 Locations</i>	<i>9</i>
<i>3.3 Logistics.....</i>	<i>10</i>
<i>3.4 Security.....</i>	<i>10</i>
<i>3.5 Safety.....</i>	<i>11</i>
<i>3.6 Communications.....</i>	<i>11</i>
<i>3.7 Activity Time Line.....</i>	<i>12</i>
<i>3.8 Visitors and Observers</i>	<i>15</i>
4. Technical Operations - Observations and Recommendations.....	16
<i>4.1 Access.....</i>	<i>16</i>
<i>4.2 Diagnostics.....</i>	<i>16</i>
<i>4.3 Device Assessment.....</i>	<i>17</i>
<i>4.4 Disablement.....</i>	<i>17</i>
<i>4.5 Containment and Effects.....</i>	<i>18</i>
<i>4.6 Command and Control.....</i>	<i>18</i>
5. Drill Operations - Observations and Recommendations.....	19
<i>5.1 Planning</i>	<i>9</i>
<i>5.2 Execution</i>	<i>20</i>
6. References.....	21
Appendix A. Planners.....	A-1
Appendix B. Controller and Coach Assignments.....	B-1
Appendix C. Master Roster	C-1
Appendix D. Acronyms	D-1

Bechtel Nevada

Memorandum

To: Distribution *Date:* July 6, 1998
From: (b)(6), b(7)(C) RSL-24 *No.:* 2224-RT-98-0086
Technical Operations Section, 5-8820
Subject: **NUCLEAR EMERGENCY SEARCH TEAM**
AFTER ACTION REPORT - ELLIPSE ALPHA '98
Project No.: N/A

SUMMARY

On June 20, 1998, the Nuclear Emergency Search Team (NEST) Search Response Team (SRT) deployed to Exercise "Ellipse Alpha 98" (EA-98). Although the initial participants were aware of the deployment date and destination, the complete notification chain and deployment procedure was tested during the call out. In the course of the exercise, operational requirements dictated that a second SRT be deployed to provide a 24-hour a day search capability. The second group was deployed no-notice from their homes directly to McCarren International. The two teams re-deployed separately on June 25-26, 1998. All pre-determined exercise objectives were met.

OBJECTIVES

The general objectives are listed below. Specific daily objectives are given in the daily SITREPS (attached).

- Complete the exercise in accordance with the BN Zero Accident Philosophy.
- Follow all relevant BN Safety procedures.
- Maintain real-world SRT standby capability.
- Provide the search capability to the DOE technical response.
- Deploy the SRT via commercial aircraft with all assets as carryon, check baggage, or air freight
- Configure the Search TOC within three hours of arrival.
- Conduct Professional mobile / handheld search operations (as necessary).
- Conduct Novice mobile / handheld search operations (as necessary) utilizing law enforcement personnel trained on site.
- Successfully transfer / receive secure data to / from other deployed DOE elements (via ICE 2.2 standard).
- Interface on technical issues with other DOE deployed assets (e.g., NRAT, JTOT II).

(b)(6) b(7)(C)

Does Not Contain
Official Use Only Information
(b)(6), b(7)(C)/MSTS 13BM
April 13, 2023

DEPARTMENT OF ENERGY



PACKAGE SATYR

AFTER-ACTION

REPORT

4-6 August 1998

PREPARED FOR DOE BY:

Oak Ridge Institute for Science and Education.

~~OFFICIAL USE ONLY~~

Contains information which may be exempt from public release under the Freedom of Information Act (5 U.S.C. 552), subsection (b), exemption number 3. Approval by the Department of Energy prior to public release is required.

Reviewed by: [REDACTED] - [REDACTED] *Date: 10 November 1998*

Record 4/18
DB 4/24

Bechtel Nevada

Interoffice Memorandum

To: (b)(6), b(7)(C) RSL - 21 ← →

Date: April 17, 2001

From: (b)(6), b(7)(C) RSL - 24

No.: 2224-RT-01-0079

Technical Operations Section, 4 - 1016

Subject: SALT LAKE CITY WASATCH RINGS EXERCISE AFTER - ACTION REPORT
(AAR)
Project No. N/A

On Wednesday, April 4, 2001, the Search Response Team (SRT) deployed to Salt Lake City, UT to support exercise "Wasatch Rings." Enclosed are the after action report, situation report (SITREP's) and attendance sheets associated with this events.

Should you have any questions, please contact me at 4-

LFB (b)(6), b(7)(C)

(b)(6), b(7)(C)

Technical Operations Section

twr

Subject Code: EMT 18

Enclosure: as stated

cc: Correspondence Control, w/enc., NLV008

(b)(6), b(7)(C), w/encs., RSL - 20

/encs., RSL - 23

/encs., RSL - 19

w/encs., RSL - 24

w/encs., RSL - 25

encs., RSL - 24

/encs., RSL - 23

(b)(6), b(7)(C)