

## **Department of Energy**

Washington, DC 20585

April 19, 2001

MEMORANDUM FOR: Distribution

FROM:

S. David Stadler, EH-2

SUBJECT:

Department of Energy Corrective Action Management Program

Second Quarter Report, Fiscal Year 2001

This memorandum transmits the fiscal year 2001 second quarter report on the status of corrective actions in response to Safety Issues within the Department of Energy (DOE). The purpose of the report is to outline the responsiveness of DOE managers in addressing and resolving identified Safety Issues as documented in the Department's Corrective Action Tracking System (CATS).

As prescribed in DOE Order 414.1A, *Quality Assurance*, Department line managers must develop and implement a corrective action plan (CAP) that includes all actions to correct Safety Issues listed in the formal assessment report. The CAP is to be approved by the Program Secretarial Officer (PSO) or delegated designee within 60 days from issuance of the formal assessment report. Department line managers must also complete all corrective actions within the planned dates of completion as outlined in the approved CAP, and report the status of these actions in the CATS database. The planned CAP completion date is the date all corrective actions listed in the CAP are to be completed.

Attachment 1 outlines the status of corrective action plans (CAPs) and their associated corrective actions to address: (1) environment, safety, and health Issues and Type A accident investigation Judgments of Need identified by the Office of Independent Environment, Safety and Health (ES&H) Oversight; (2) emergency management Safety Issues identified by the Office of Independent Oversight and Performance Assurance; and (3) Safety Issues generated by line management self-assessments of High-Efficiency Particulate Air (HEPA) filters and criticality safety at nuclear facilities.

Paragraph 1 of Attachment 1 lists new appraisal reports published this quarter. Paragraph 2 of Attachment 1 lists the status of CAPs pending approval in response to previously published appraisal reports. Paragraph 3 of Attachment 1 lists the status of all CAPS that have been approved and all associated corrective actions listed in the CAP that have not been completed. Paragraph 3a lists three approved CAPs with one or more corrective actions open more than 90 days past the planned CAP completion date. Paragraph 3b lists one CAP with one or more corrective actions open less than 90 days past the planned CAP completion date. All CAPs with approval due dates for this quarter and earlier have been completed and approved.

Since inception of the DOE Implementation Plan to Defense Nuclear Facilities Safety Board Recommendation 98-1, *DOE Plan to Address and Resolve Safety Issues Identified by Internal Independent Oversight* on March 10, 1999, a total of 85 appraisal reports have been tracked within the CATS identifying 575 Safety Issues that could have an adverse

impact on the environment, safety, or health of a DOE site, its workers, and/or the public. Line managers developed and implemented CAPs in response to these appraisal reports listing a total of 3,137 corrective actions to resolve the identified Safety Issues. The graphic at Attachment 2 depicts the overall status of these corrective actions.

This report is available on the Internet by accessing the CATS web site at <a href="http://tis.eh.doe.gov/portal/catsentry.html">http://tis.eh.doe.gov/portal/catsentry.html</a>. The web site provides publicly available read-only access to the CATS database. For access, follow the "Guest User" instructions.

We are reviewing the overall format of this report in conjunction with the Safety Management Implementation Team Director and DOE Corrective Action Management (CAM) Team to ensure that the most accurate portrayal of the Department's Corrective Action Management Program status is provided. If you have any questions or comments pertaining to this report or recommended changes to the report format, please contact me at (301) 903-6457, or your staff may contact Steve Petersen at (301) 903-4022. Changes may also be passed through your CAM Team representative.

S. David Stadler, PhD

Deputy Assistant Secretary Office of Independent ES&H Oversight Environment, Safety and Health

Attachments (2)

# Department of Energy Corrective Action Tracking System Quarterly Report, Second Quarter FY 2001

#### Distribution

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Manager, Rocky Flats Field Office (RFFO)

Manager, Richland Operations Office (RL)

Manager, Savannah River Operations Office (SR)

Acting Manager, Office of River Protection (RIVPRO)

Departmental Representative to DNFSB, Office of the Assistant Secretary for Environment, Safety, and Health, S-3.1

Director, Safety Management Implementation Team (SMIT)

# Secretary's Quarterly Report from CATS

(Corrective Action Tracking System)

### Report for Period 01/01/2001 - 03/31/2001 As of Date: 03/31/2001

New Reports	2
Corrective Action Plans (CAPS) Pending Approva	1
CAPs pending approval - Approval > 60 days overdue	0
CAPs pending approval - Approval <= 60 days overdue	0
CAPs pending approval - Approval on schedule	1
Total CAPS pending approval:	1
Approved Corrective Action Plans (CAPS)	
Approved CAPS - with actions open > 90 days past planned completion date	3
Approved CAPS - with actions open <= 90 days past planned completion date	1
Approved CAPS - on schedule	25
Total approved CAPS still open:	29
Approved CAPS - completed	8

### 1. New Oversight Reports This Quarter

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Report Number: INEEL-01/18/2001-0001-R-EH2

Report Title: Focused Safety Management Evaluation of the Idaho National Engineering and

Environmental Laboratory Final Report Date: 01/18/2001

Office/Facility Reviewed: Idaho National Engineering & Environmental Laboratory

Corrective Action Plan Approval Due Date: 03/19/2001

Approval Status: Approved

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Report Number: ORNL-02/22/2001-0001-R-EH2

Report Title: Independent Review of the High Flux Isotope Reactor Tritium Leak

Final Report Date: 02/22/2001

Office/Facility Reviewed: Oak Ridge National Laboratory Corrective Action Plan Approval Due Date: 04/23/2001

Approval Status: Pending Approval

#### 2. Corrective Action Plans Pending Approval

2a.	CAPS Pending Approval - Overdue 60+ days (Not approved within 120 days of report issuance)
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No	overdue Corrective Action Plans as of 03/31/2001

2b. CAPS Pending Approval - Overdue (Not approved within 60 days of report issuance)

No overdue Corrective Action Plans as of 03/31/2001

#### 2c. CAPS Pending Approval - On Schedule

Report Title: Independent Review of the High Flux Isotope Reactor Tritium Leak

Final Report Date: 02/22/2001

Office/Facility Reviewed: Oak Ridge National Laboratory Corrective Action Plan Approval Due Date: 04/23/2001

#### 3. Approved Corrective Action Plans

3a. Approved CAPS - Overdue 90+ days (CAPs with actions open more than 90 days past the planned completion date)

\*

Report Number: LANL-08/08/1998-0001-R-XM

Report Title: Independent Oversight Evaluation of Emergency Management Programs Across the DOE Complex (Volume 2: Summary Assessments of DOE Site Emergency

Management Programs)

Office/Facility Reviewed: Los Alamos National Laboratory

CAP Completion Due Date: 12/31/99

Comments: 03/30/2001 - NAM for DLB @ LAAO - Action LANL-08/08/1998-I0001-0009-A is the only remaining open action for this CAP. All other actions are listed as completed and verified. The Los Alamos Area Office has provided the following update for this action. An Emergency Management Review program that examines specific emergency management elements during the calendar year has been developed and DOE-LAAO is planning to exercise its capabilities this calendar year. DOE-LAAO also developed a Building Emergency Plan (BEP), conducted a review of the building, and updated evacuation routes. The Cerro Grande Fire also highlighted the need to have additional personnel duty-officers qualified. The new duty officer qualification procedure has been approved and training is in progress.

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Report Number: LLNL-02/24/2000-0002-R-SSA

Report Title: LLNL Criticality Safety Program Self-Assessment Review Office/Facility Reviewed: Lawrence Livermore National Laboratory

CAP Completion Due Date: 6/30/2000

Comments: All but two corrective actions have been completed for this self-assessment.

Report Number: ORNL-12/21/1999-0001-R-XM

Report Title: Emergency Management Program Follow-up Review at the Oak Ridge

National Laboratory

Office/Facility Reviewed: Oak Ridge National Laboratory

CAP Completion Due Date: 12/29/2000

Comments: All items completed except for one on training. Trained and qualified personnel cover all Emergency Response Organization (ERO) positions; however, not all ERO members at ORNL have completed their refresher training. ORNL had a problem with their data base to track training and during this time higher priorities kept all training from being completed. All refresher training is expected to be completed by April 30.

<u>3b. Approved CAPS - Overdue < 90 days</u> (CAPS with actions open less than 90 days past the planned completion date)

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Report Number: RFETS-03/24/2000-0001-R-XM

Report Title: Independent Oversight Review of the RFETS Transportation Emergency Management

Program

Office/Facility Reviewed: Rocky Flats Environmental Technology Site

CAP Completion Due Date: 12/31/2000

Comments: All corrective actions completed except one. A request to extend the completion date for this action is being developed because the internal Rocky Flats corrective action tracking system is experiencing technical problems.

#### 3c. Approved CAPS - On Schedule

Report Number: LLNL-11/01/1997-0001-R-EH2

Report Title: Integrated Safety Management Evaluation of the Lawrence Livermore National Laboratory

Office/Facility Reviewed: Lawrence Livermore National Laboratory

CAP Completion Due Date: 3/31/2001

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Report Number: PP-09/11/2000-0001-R-EH2

Report Title: Evaluation of Authorization Basis Management Systems and Processes at the Pantex Plant

Office/Facility Reviewed: Pantex Plant CAP Completion Due Date: 3/31/2001

Comments: 02/08/01:GRR - Approved CAP received and reviewed by EH-2 (David Stadler memo dated 02/07/01)indicates CAP is responsive to the issue identified by ES&H Oversight. 1/18/01:GRR - Dan Glenn, Area Manager, Amarillo Area Office approved the CAP on January 17, 2001. Courtesy verbal notification of CAP approval will be made January 18, 2001 to HQ/EH-22. The action for the legacy issue identified in the report can be found at PP-10/01/1996-10002-0002-A.

\*

Report Number: LANL-10/01/1996-0003-R-EH2

Report Title: Independent Oversight Evaluation of the Environment, Safety and Health Programs at the

Los Alamos National Laboratory

Office/Facility Reviewed: Los Alamos National Laboratory

CAP Completion Due Date: 4/23/2001

Comments: 01/07/2000 - DP-1 transmitted the action plan to EH-1 on December 20, 1996. The memo

referenced an AL memo approving the corrective actions. NAM

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Report Number: ANLE-05/25/2000-0001-R-SSA

Report Title: ANL CRITICALITY SAFETY SELF-ASSESSMENT Office/Facility Reviewed: Argonne National Laboratory - East

CAP Completion Due Date: 4/30/2001

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Report Number: ORP-05/25/2000-0001-R-SSA

Report Title: DOE/ORP-2000-20, Assessment of Potential Vulnerability Due to Degraded High-Efficiency

Particulate Air (HEPA) Filters in Nuclear Facilities Office/Facility Reviewed: Office of River Protection

CAP Completion Due Date: 7/30/2001

Comments: Issue 5 should be closed according to the provisions of Section 3.b(3) of the Safety Issue

Corrective Action Process attached to DOE

Memorandum from Ted Wyka, Director, Safety Management Implementation Team, dated March 17, 2000. The attachment to the memorandum includes guidelines for developing corrective action plans for self-assessments of potential vulnerabilities in the HEPA programs. This issue will be addressed in establishing age criteria via a search of archived work control packages/files. Reference Issue 3.

Report Number: DOEW-08/01/1998-0001-R-XM

Report Title: Independent Oversight Evaluation of Emergency Management Programs Across the DOE

Complex Volume 1

Office/Facility Reviewed: DOE - Wide CAP Completion Due Date: 9/28/2001

Comments: Approved by FMC and Deputy Secretary. In distribution on 3/23/00.

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Report Number: Y-12-12/01/1998-0001-R-EH2

Report Title: Integrated Safety Management Evaluation of the Y-12 Plant

Office/Facility Reviewed: Oak Ridge Y-12 Site

CAP Completion Due Date: 9/30/2001

Report Number: LANL-04/14/2000-0001-R-EH2

Report Title: Field Report - Nuclear Criticality Safety Review for Los Alamos National Laboratory

Technical Area-55

Office/Facility Reviewed: Los Alamos National Laboratory

CAP Completion Due Date: 9/30/2001

Comments: 03/15/2001 - NAM - The completion of the corrective actions in this CAP are being delayed by the technical qualification process needed by the AL Criticality Engineer (JoN 7, Action 7.2), as well as other priority tasks assigned to the Criticality Engineer. The technical qualification process needs to be completed before the remaining actions can be conducted.

06/01/2000 - NAM - The CAP was forwarded to Brigadier General Thomas F. Gioconda, Acting Deputy Administrator for Defense Programs on April 14, 2000. The transmittal of the corrective action plan under this memorandum constitutes approval of the corrective action plan by the Cognizant Line Manager as required by DOE O 414.1A. The memo, with its attachments, was copied to EH-24. The corrective action plan attached is in Microsoft Word 97 format.

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Report Number: DOEW-11/01/1998-0002-R-EH2

Report Title: Independent Oversight Follow-up Review of Aviation Safety Programs in the Department of

Energy

Office/Facility Reviewed: DOE - Wide CAP Completion Due Date: 9/30/2001

Comments: The following Changes need to be made:

1) Cognizant Line Manager Tom Tamura(Retired) change to: Robert G. Jenkins appointed full time Director, Office of Aviation Management on July 17, 2000. (

 See attached APPROVED CORRECTIVE ACTION PLAN EH-2 LEGACY ISSUES(avnlegacycap01\_12\_01rev2.wpd) for updated action items. \*

Report Number: LLNL-03/07/2000-0001-R-XM

Report Title: Follow-up Review of the Lawrence Livermore National Laboratory Emergency Management

Program

Office/Facility Reviewed: Lawrence Livermore National Laboratory

CAP Completion Due Date: 10/1/2001

Comments: CAP approved by Mike Hooper, Assistant Manager Livermore Site on 4/18/00. Transmitted

to DOE Office of Independent Oversight and Performance Assurance (OA-1) on 4/18/00.

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Report Number: TSD-06/01/1999-0001-R-AIA

Report Title: Type A Accident Investigation Board Report of the April 19, 1999 Special Agent Fatality at

the Southeast Courier Section Oak Ridge, Tennessee Office/Facility Reviewed: Transportation Safeguards Division

CAP Completion Due Date: 10/5/2001

Comments: 01/07/2000 - Last action to be completed in this action plan scheduled for September 30,

2000. NAM

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Report Number: PGDP-10/20/1999-0001-R-EH2

Report Title: Phase I Independent Investigation of the Paducah Gaseous Diffusion Plant, October 1999

Office/Facility Reviewed: Paducah Gaseous Diffusion Plant

CAP Completion Due Date: 11/1/2001

Comments: CAP was submitted jointly to the CSOs for Environmental Management (EM) and Nuclear Energy (NE)December 22, 1999. Comments were received from EH in March 16, 2000. Response to

comments were incorporated and returned to EM and NE May 11, 2000.

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Report Number: INEEL-01/18/2001-0001-R-EH2

Report Title: Focused Safety Management Evaluation of the Idaho National Engineering and

**Environmental Laboratory** 

Office/Facility Reviewed: Idaho National Engineering & Environmental Laboratory

CAP Completion Due Date: 11/29/2001

Comments: CAP is on schedule as of 03/20/2001.

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Report Number: SRS-06/02/2000-0002-R-SSA Report Title: HEPA Filter Vulnerability Report Office/Facility Reviewed: Savannah River Site CAP Completion Due Date: 12/31/2001

Comments: Complete

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Report Number: CH-11/22/2000-0001-R-SSA

Report Title: CHICAGO CRITICALITY SELF-ASSESSMENT

Office/Facility Reviewed: Chicago CAP Completion Due Date: 12/31/2001

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Report Number: ORO-05/08/2000-0001-R-SSA

Report Title: Oak Ridge Operations Nuclear Criticality Safety Self Assessment

Office/Facility Reviewed: Oak Ridge Operations Office

CAP Completion Due Date: 3/30/2002

Comments:

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Report Number: PORTS-05/25/2000-0001-R-EH2

Report Title: Independent Investigation of the Portsmouth Gaseous Diffusion Plant

Office/Facility Reviewed: Portsmouth Gaseous Diffusion Plant

CAP Completion Due Date: 12/31/2002

Comments: An extension has been requested to better reflect the appropriate due dates. Many of the due dates listed in the original CAP were for dates due before the CAP was approved. Approval for

changing dates is expected by the end of January 2001.

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Report Number: ETTP-10/11/2000-0001-R-EH2

Report Title: Independent Investigation of the East Tennessee Technology Park Volume 2: Current

Environment, Safety, and Health Programs and Issues Office/Facility Reviewed: East Tennessee Technology Park

CAP Completion Due Date: 2/1/2003

Comments: Approved by EM-1 on January 19, 2001

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Report Number: ORO-06/08/2000-0002-R-SSA

Report Title: High-Efficiency Particulate Air (HEPA) Filter in Nuclear Facilities

Office/Facility Reviewed: Oak Ridge Operations Office

CAP Completion Due Date: 3/31/2003

Comments:

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Report Number: LANL-07/24/2000-0002-R-AIA

Report Title: Type A Accident Investigation of the March 16, 2000, Plutonium-238 Multiple Intake Event at

the Plutonium Facility, Los Alamos National Laboratory, New Mexico

Office/Facility Reviewed: Los Alamos National Laboratory

CAP Completion Due Date: 7/31/2003

Comments: 03/29/2001 - NAM - 1)On March 21, 2001, Dave Gurule, LAAO Manager and Cognizant Line Manager, submitted a request to DP-1 to modify the CAP to allow a special change control board (CCB) to approve changes to the actions in the CAP. The current approved CAP identified the LANL Integrated Safety Management (ISM) CCB to approve changes. Since the ISM CCB only meets once a quarter this did not allow for timely consideration of proposed changes and did not involve DP participation. The new CCB meets on a monthly basis and includes DP membership.

2) LANL has provided 29 completion packages for DOE review. These packages are currently undergoing DOE review and will be listed as complete in the CATS as soon as they are accepted.

03/15/2001 - NAM - A Change Control Board (CCB) has been established to review and approve changes to LANL actions in this CAP. Membership includes LANL, LAAO, AL, and DP personnel. The approved CAP states that the LANL ISM CCB is empowered to approve changes to the LANL actions. However, this board only meets quarterly and cannot provide timely review and approval of changes. The new Board, specific to this CAP, meets on a monthly basis and will be able to review and approve changes on a more real time basis. LAAO is preparing a memorandum to request DP approval to change Item 2 in the Summary portion of the CAP to recognize the new CCB as the approval authority for LANL changes.

12/21/2000 - NAM - The DP approval memo was dated December 21, 2000. Corrective actions are in the process of being incorporated into the CATS.

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Report Number: PP-10/01/1996-0002-R-EH2

Report Title: Independent Oversight Evaluation of the Environment, Safety and Health Programs at the

Pantex Plant

Office/Facility Reviewed: Pantex Plant CAP Completion Due Date: 9/30/2003

Comments: Action plan resubmitted on Oct 6, 1999 waiting for EH approval. This constitutes the

Cognizant Line Managers approval of the corrective action plan.

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Report Number: Fernald-12/08/1998-0002-R

Report Title: Office of Oversight Review of the Occupational Medicine Program at the Fernald

Environmental Management Project

Office/Facility Reviewed: Fernald Environmental Management Project CAP Completion Due Date: No actions associated with this report.

Comments:

Report Number: LANSCE-12/22/1999-0001-R-EH2

Report Title: Follow-up Review of Integrated Safety Management at the Los Alamos Neutron Science

Center

Office/Facility Reviewed: Los Alamos Neutron Science Center CAP Completion Due Date: No actions associated with this report.

Comments: The new corrective actions have been submitted for approval by DOE/LAAO and are

expected to be approved the week of 2/5 - 2/9 2001.

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Report Number: HS-05/31/2000-0002-R-SSA

Report Title: DOE/RL-00-A&E-088, Assessment Of Potential Vulnerability Due To Degraded High-Efficiency Particulate Air (HEPA) Filters In Richland Operations Office (RI) Nuclear Facilities

Office/Facility Reviewed: Hanford Site

CAP Completion Due Date: No actions associated with this report.

Comments: This assessment did not identify any safety-related HEPA filter systems that would not be expected to perform their required safety function due to the predicted degradation caused by aging, wetting, high temperature, radiation or chemical exposure.

Report Number: SRS-03/13/2000-0001-R-SSA Report Title: Criticality Safety Self Assessment at SR

Office/Facility Reviewed: Savannah River Site

CAP Completion Due Date: No actions associated with this report.

Comments: There were no issues developed as a result of this review (which required a CAP). Therefore, there is no CAP attached. However, a copy of the assessment report is attached.

# 3d. Approved CAPS - Completed (Final action was completed during this quarter)

Report Number: LANL-04/01/1996-0001-R-AIA

Report Title: Electrical Accident with Injury in Technical Area 21, Tritium Science and Fabrication Facility

Final Report Date: 04/01/1996

Office/Facility Reviewed: Los Alamos National Laboratory

CAP Completion Due Date: 12/31/1999 CAP Completion Date: 03/28/2001

Report Number: NTS-06/28/1999-0002-R-XM

Report Title: Evaluation of the Nevada Test Site Full Participation Exercise Sunrise `99

Final Report Date: 06/28/1999

Office/Facility Reviewed: Nevada Test Site CAP Completion Due Date: 02/28/2001 CAP Completion Date: 01/04/2001

Report Number: WIPP-07/13/2000-0001-R-XM

Report Title: Emergency Management Program Review at the Waste Isolation Pilot Plant

Final Report Date: 07/13/2000

Office/Facility Reviewed: Waste Isolation Pilot Plant

CAP Completion Due Date: 01/05/2001 CAP Completion Date: 01/04/2001

Report Number: Y-12-02/24/2000-0001-R-AIA

Report Title: Type A Accident Investigation of the December 8, 1999, Multiple Injury Accident Resulting

from the Sodium-Potassium Explosion in Building 9201-5 at the Y-12 Plant

Final Report Date: 02/24/2000

Office/Facility Reviewed: Oak Ridge Y-12 Site CAP Completion Due Date: 10/31/2000 CAP Completion Date: 01/26/2001

Report Number: SRS-11/12/1999-0001-R-EH2

Report Title: Focused Review of the Savannah River Site

Final Report Date: 11/12/1999

Office/Facility Reviewed: Savannah River Site CAP Completion Due Date: 09/30/2000 CAP Completion Date: 01/31/2001

Report Number: WVDP-10/23/2000-0001-R-XM

Report Title: Independent Oversight Review of the West Valley Demonstration Project Transportation

Emergency Management Program Final Report Date: 10/23/2000

Office/Facility Reviewed: West Valley Demonstration Project

CAP Completion Due Date: 01/31/2001 CAP Completion Date: 02/02/2001

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Report Number: DOEW-03/01/1996-0001-R-EH2

Report Title: Independent Oversight Review of the Department of Energy Quality Assurance Program for

Suspect/Counterfeit Parts Final Report Date: 03/01/1996 Office/Facility Reviewed: DOE - Wide CAP Completion Due Date: 03/01/2001 CAP Completion Date: 03/12/2001

Report Number: RFETS-05/01/1999-0001-R-EH2

Report Title: Focused Safety Management Evaluation of the Rocky Flats Environmental Technology Site

Final Report Date: 05/01/1999

Office/Facility Reviewed: Rocky Flats Environmental Technology Site

CAP Completion Due Date: 09/01/2000 CAP Completion Date: 03/15/2001

