



DEPARTMENT OF THE ARMY
US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND
6501 EAST 11 MILE ROAD
WARREN, MICHIGAN 48397-5000

REPLY TO
ATTENTION OF:

August 7, 2015

U.S. Nuclear Regulatory Commission Region III
Materials Licensing Branch
2443 Warrenville Rd., Suite 210
Lisle, IL 60532-4352


SUBJECT: Theft of M22 Automatic Chemical Agent Detection Alarm
(ACADA) under Possibly NRC License 21-32838-01 Amendment 7 (Event
Number 51217)

Dear Administrator,

The US Army TACOM LCMC initiated a phone call and report via e-mail on July 9, 2015 to report a theft of a M22 ACADA possibly under NRC License 21-32838-01 Amendment 7, which resulted in event number 51217. The report being made in accordance with 10 CFR 20.2201(a).

This letter with attachment is the required 30 day report from the initiated report.

The POC for further information or correspondence is Mrs. Karen Lapajenko McGuire, TACOM LCMC Radiation Safety Program Manager/NRC License RSO, commercial 586-282-7635, e-mail: Karen.l.mcguire4.civ@mail.mil.


PATRICK J. KELLEY
Director, TACOM LCMC
Materiel Systems Organization
Safety Engineering Office

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Event Report 51217 Details

As indicated in the initial report, TACOM LCMC was notified on May 11, 2015 by an agent from the US Army Criminal Investigation Command (CID) at Joint Base Lewis McChord (JBLM), Fort Lewis, WA., that the ACADA was sold on line through E-Bay. The CID was able to retrieve the ACADA. The item normally contains two drift tube modules of 15 mCi of Nickel 63 for a total of 30 mCi, but some M22 ACADAs contain a total of 20 mCi. TACOM LCMC under the above cited license does cover Army organizations for their possession, storage and maintenance of the item. However there may be other organizations with NRC licenses covering the item, but because it appeared to be an Army item and TACOM LCMC has a license covering it, TACOM LCMC reported it.

The CID had contacted TACOM LCMC to report the item and event to include their possession of the item. They also wanted assistance in determining the owner of the item and to obtain the item's disposition. The CID indicating that the serial numbers identifying the ACADA were scratched off, which could assist in determining the owner. The suspect in the event is not providing any information.

Access to the ACADA was restricted until June 29, 2015 due to the criminal investigation. The initial report from the CID during the restricted access indicated that the item was a M8A1, which has 250 uCi of Am-241, which proved to be false. The M8A1 is also covered by NRC License 21-32838-01. Upon the limited access to the ACADA on May 21, 2015, the ACADA was identified versus it being a M8A1. Also, it was thought then that this was a dummy device without radioactive sources due to the marking on the device of "TNG".

On June 29, 2015, the item was sent to Pine Bluff Arsenal (PBA), Arkansas for further investigation. On July 1, 2015, the M22 ACADA was received at PBA and on July 8, 2015, information was received to indicate that the ACADA may not have the Nickel 63 sources. The M22 ACADA was opened up to find components to include the drift tub modules with the nickel sources missing and the wire that would have led to it was cut. PBA indicated that the ACADA appeared gutted. Also, PBA indicated that the plate with the serial numbers and identifying information was removed

Event Report 51217 Details (Continued)

from the M22 ACADA and of course the source modules had serial numbers in which the source modules are missing. PBA also performed a radiac survey of the M22 ACADA to which no radioactive material could be detected.

Since the initial report, PBA took pictures of the circuit boards and of other components which have serial numbers. The hope is that Smiths Detection can correlate a serial number with the ACADA detector that the component was originally installed in, if Smiths Detection recorded this information and still has the data available. This information was sent to the Watford Smiths Detection group per an Army System Manager on July 21, 2015.

TACOM LCMC is still awaiting feedback from the Watford Smiths Detection group as to whether or not they can identify the unit using the component serial numbers provided by PBA. The issue is that they are dealing with an older ACADA that pre-dates the serial tracking system that they currently have in place. They are having to sort through paper records to find information. TACOM LCMC is hoping to have some report from the Watford Smiths Detection group in a few weeks.

Based on ACADA housing silk screenings, which includes the M22 nomenclature, Army National Stock Number (NSN) and part number, and US Army Edgewood Chemical Biological Center (ECBC) Cage Code, it appears that the ACADA is an Army ACADA.

TACOM LCMC is not aware of any missing ACADA reports other than what was reported to the NRC in the past.