DEPARTMENT OF THE ARMY
U. S. ARMY ENVIRONMENTAL HYGIENE AGENCY
ABERDEEN PROVING GROUND, MD 21010

USAEHA-RH

22 MAY 1973

SUBJECT: Radiation Protection Survey, USACMLCS, Fort McClellan, AL

Commandant
USACMLCS
Fort McClellan, AL 23201

1. Reference TWX, R301659Z, April 1973, subject: Disposition of Radioactive Material.

2. The close-out radiation protection survey has been scheduled for 28-31 May 1973. Coordination for the survey has been accomplished by FONECON between MAJ Charles Wickstrom, USACMLCS, and MAJ Gordon M. Lodde, this Agency.

3. Survey Officers	Security Clearance
MAJ Gordon M. Lodde, MSC [redacted]	[redacted]
Mr. Lorenzo Wilborn, DAC [redacted]	[redacted]

FOR THE COMMANDER:

JAMES F. JONES
Captain, MSC
Adjutant

CF:
DASG-HCH
Cdr, HSC (HSC-PA-H)
Cdr, Third US Army, ATTN: Surgeon
Cdr, CONARC, ATTN: Surgeon
Cdr, CONARC, ATTN: ATLOG-MAI-EQ
Cdr, MEDDAC, Ft McClellan
Cdr, USASTC
HQDA (DALO-MAS-I)

31 MAY

CLOSE-OUT - HEALTH PHY DIV

21 Feb 73 - SSG Truffa did a rough survey of the Rad Lab Vault. The first survey was done with a PG1 probe, plotting the 10^5d $2x10^6$ CPM contours, going back over the vault with an AN/PDR-27, the General Background was 0.1 mr/hr in the vault (with all sources removed) hot spots of 210 mr/hr, 110 mr/hr, and 16 mr/hr were found on the floor, the general BG on the surface of the floor with the Beta shield open ranged between 0.2 and 0.4 mr/hr, although spots ranged from 0.5 - 1.5 mr/hr.

SSG Truffa started the recirculation pump to the 1,500-gal tank at 1410 hrs. This is in preparation of drawing another water sample for AEHA. SSG Truffa also drew a tap water sample as a background sample for AEHA.

22 Feb 73 - SSG Truffa drew a sample for the AEHA from the 1,500-gal hot cell storage tank. Both this sample and the one taken yesterday were packaged in a wooden box and will be shipped to AEHA ASAP.

23 Feb 73 - SSG Truffa took paint and cement samples in the Rad Lab Vault. Conclusion: Only one paint sample came out "hot" and this was in the vicinity of the two spots reading 210 mr/hr and 110 mr/hr. The walls and ceiling appear to be clean. Recommendation: (1) Remove "3 hot spots" by jackhammer. (2) Vacumn up all dust and debris. (3) Resurvey using PG2 and PRM-5. (4) Repeat steps 1 - 3 for any other "hot spots" found. Ran liquid scint count on sample - 2 peaks, results inclusive.

26 Feb 73 - Ran sample thru single channel analyzer, results: Cs137 conclusive.

27 Feb 73 - SSG Truffa vacuumed the Rad Lab Vault and spray painted over the chipped surfaces to seal the contamination.

1 Mar 73 - SSG Truffa collected the waste from Lab "T" and the Isotope Lab, and began an extensive survey of the Isotope Hood. A hot spot was found on the lead glass and was rewiped until within limits. One hot spot was found on a metal plate which will be disposed of. The survey is being performed with the PRM-5 and the fiddler probe, and AN/PDR27 with the beta window exposed and swipe tests for removable contamination. The liquid samples asked for by MAJ Lodde of AEHA were given to Ofc of Log for shipment.

2 Mar 73 - SSG Truffa continued the survey of the Isotope hood. The rear wall of the hood was removed and was found to be contaminated to about 0.1 mrad/hr and 10,000 DPM/500cm^2 maximum on the reverse side.

5 Mar 73 - SSG Truffa wiped off the reverse of the rear wall with damp sponges and rewiped the surfaces, the maximum removable was about 2,000 DPM/500cm^2 - SP4 Holdeman was informed and said he would try to decon it further using a decon solution. SSG Truffa vacuumed the floor in the area of the hood. The reading on the inside rear wall of the hood ranged from 0.07 to 0.15 mrad/hr.

A decon solution was made up and applied 3 times, using steel wool. The majority of the rust was removed and the readings dropped to between 0.04 and 0.1 mrad/hr. Removable contamination will be further evaluated. The hood was further dismantled, taking out the pre-filter which was contaminated and the overhang above the glass was found to read up to 0.2 mrad/hr.

8 Mar 73 - SSG Truffa vacuumed around hood and further dismantled the hood to get to the MSA filter. These parts read up to 0.17 mrad/hr. The MSA Filter was removed and found to be not contaminated.

5-7Mar 73 - Eng (46th) constructed wall between classroom and Hot Cell controls - will finish Monday.

9 Mar 73 - Eng (Post) dug drainage trenches in Hot Cell yard - will return 12 Mar 73 to finish.

9 Mar 73 - SSG Truffa surveyed the duct work from the Isotope hood to the roof exhaust. The duct work appears contaminated as does the exhaust assembly on the roof readings appear uniform at about 0.2 mr/hr. The rest of the day was spent in trying to locate the duct work between the ceiling of the 2d floor and the roof and finding the keys to rooms the duct work came through - all without success.

12 Mar 73 - SSG Truffa found the keys to the rooms with the duct work. The duct work reads between 0.04 and 0.07 mrad/hr on contact as far as SSG Truffa could follow it. Eng finished trench work and started waterproofing around liquid disposal pit.

13 Mar 73 - Work was begun to break up and remove the concrete pad surrounding Bldg 3180. A 5-man detail was supplied by Sch Bn and an NCOIC, crane operator, and driver for a 5-ton dump truck were supplied by 46th Eng. Initially, the concrete slab was watered down and covered with burlap to keep the dust low. The slab was broken up using the crane and a 3-ton metal ball. An air sample was run during the entire operation. Prior to the slab break-up, all the sources from the Vault were removed and placed in Lab "W" for safety and security. The highest readings found were 15 mrad/hr and this was on one of many lead bricks apparently used for shielding before the concrete was poured over it. Although the plaque marking the spill identified the isotope as Sr-90, the reading with the beta window open and closed and AN/PDR-27 showed no change, indicating a gamma emitter. The dose rates encountered did not approach the 300 mrad/hr expected. The dose rates found indicate the spill was spread before the concrete was laid or the isotope had gone through at least 5 half lifes or a half life of about 3 years. The concrete was removed and placed in 55-gal drums. The area was reduced to below 0.4 mrad/hr with a few spots as high as 2 mrad/hr before quitting. 33 55-gal drums were filled. Air samples did not even come to twice background on immediate count.

14 Mar 73 - Sch Bn supplied another 5-man detail, 46th Eng supplied an NCOIC and crane operator. The remainder of the pad was broken up and filled 10 more 55-gal drums. Air samples were negative. The area was down to 0.1 mrad/hr in general with hot spots of 0.3 mrad/hr. Although these spots are within allowable limits, attempts will be made later to lower them further.

In the afternoon, 2 people from the 46th Eng and SSG Truffa started chipping up the floor of the Rad Lab Vault using an impact hammer, a broom to hold down the dust and the vacuum cleaner. The 210 and 110 mrad/hr spots were removed first and the area surrounding it had to be removed. Some areas around the removed portion are still reading 2 mrad/hr and must be further removed.

15 Mar 73 - SSG Truffa and 2 people from 46th Eng were able to get a little more of the floor in the vault chipped up in the afternoon. The Eng also brought the radiation warning signs for the Hot Cell and liquid waste system.

16 Mar 73 - Because of rain, the Eng (46th) worked on the wall in the Hot Cell. SSG Truffa spray painted the floor of the vault where the chipping was done and moved the sources back into the vault.

19 Mar 73 - 46th Eng worked on wall in Hot Cell and started painting wall. A 4-man detail from Sch Bn, SSG Truffa and MAJ Wickstrom went to Iron Mountain to remove contaminated dirt. Four hot spots were found, ranging from 0.5 to 2.3 mrad/hr. One of the spots went down to about 3-4 ft and was still over 0.5 mrad/hr. It was decided to get a back-hoe to remove the rest of the hot spot. Eight 55-gal drums of dirt were removed.

20 Mar 73 - 46th Eng worked on painting wall in Hot Cell and started to construct the barrier for the rear portion of the Hot Cell.

23 Mar 73 - Sch Bn furnished a 4-man detail, 46th Eng furnished cement, gravel, sand and 3 people to mix concrete and fill in the two wells around and in Bldg 3180 (Rad Lab Vault). The detail was also used to move and monitor 55-gal drums. A total of 36 drums were monitored at the surface and at 1 meter.

26 Mar 73 - 46th Eng filled in holes made by removing contamination in vault. Started putting up signs.

27 Mar 73 - 46th Eng finished putting up signs except the one for the barrier. Helped SSG Truffa monitor 6 more 55-gal drums.

28 Mar 73 - Post Eng came to pick up dirt generated in improving the drainage in the yard.

29 Mar 73 - 46th Eng filled the drains in the Hot Cell bldg after Post Eng disconnected the gas, water and steam lines. Started storing hot cell related items in the hot cell block.

5 Apr 73 - 46th Eng helped take apart shelves in main area of bldg, then welded shut Hot Cell door and put up barrier. SSG Truffa started vacuuming top of Hot Cell and general clean-up. Took water samples from around Storage Vault. All were less than background. Eng also cut off top of the well around the storage vault and melted the lead linings from around the contaminated pipe in the storage yard. Barrier was completed and sign put up.

10 Apr 73 - Post Eng cut electric power to the Hot Cell. Decon of hot spots in Lab "W" and rest of bldg was begun by SSG Truffa and 46th Eng. The contamination was removed by use of the impact hammer and vacuum cleaner. Holes were filled in with mortar.

11 Apr 73 - Post Eng disconnected water cooler in Bldg 3182 so decon work could be done. The door frame in the museum was cut and left to soak in a decon solution overnight. SSG Truffa packaged 4T5784's for shipment and monitored the Scaler Lab with the PG-2 and the floor monitor, checking indications of "hot spots" with an AN/PDR27. No contamination noted.

12 Apr 73 - SSG Truffa checked contaminated door frame and further decon work was necessary. After 12 washings with concentrated hydrochloric acid, the readings were down to about 0.1 mrad/hr using an AN/PDR27 with the beta shield open. Decon was continued by 46th Eng and the spot where the water cooler was and the spot below the door jamb in the museum. All the holes were filled with mortar and Lab "W" was retiled over the deconed areas. Work was begun on replacing tile blocks that had to be removed from the walls. SSG Truffa finished packing up the 20 TS784's.

13 Apr 73 - 46th Eng continued patching and retiling operations.

16 Apr 73 - 46th Eng continues patching operations. SSG Truffa removed all the liquid waste from the Isotope Vault and placed it in concrete, lined drum #1 and poured cement over it. This drum will be disposed of as waste. All the lead pipe used for storage of liquid waste were monitored with an AN/PDR27 with the beta shield open. All those found contaminated were disposed of. Water cooler was reconnected.

17 Apr 73 - 46th Eng finished patching decon work in Lab "W" and hallway. SSG Truffa met with MAJ Neubert to find out what was needed to be done in the Isotope Vault (which isotopes were to be transferred and which disposed of).

18 Apr 73 - A 5-man detail was supplied by Sch Bn for 46th Eng. A concrete apron was poured to replace the pad that was taken up around the Rad Lab Vault (Bldg 3180) Sixteen more 55-gal drums were monitored (total 59 drums monitored). All radioactive material was removed from the Isotope Vault, 16-TS784's were labeled and monitoring of the vault was begun by SSG Truffa.

19 Apr 73 - 46th Eng worked on concrete apron. SSG Truffa took wipes and Bromine Pad, all wipes were less than 200 DPM except those taken in the 11F3A Bromine device which ranged around 1000 to 7000 DPM. The remaining 4TS784's were labeled and all 20 were stenciled with "USA DOT 7A TYPE A RADIOACTIVE MATERIAL FACILITY ENG USAS/TC FT MCCLELLAN, AL 36201" IAW Tariff 25.

20 Apr 73 - 46th Eng worked on concrete apron.

21 Apr 73 - SSG Truffa packaged most of the low-level calibration and check sources and surveyed most of the Isotope Vault with the floor monitor and an AN/PDR27. No hot spots were noted. Also numbered the 55-gal waste drums out in the yard.

23 Apr 73 - 46th Eng welded back the deconed door jamb in the museum. 46th Eng also worked on fabricating a shipping container for the 6 Cs137 sources. SSG Truffa surveyed the museum with the PG2 and an AN/PDR27 and found several hot spots, one ranging up to about 0.50 mrad/hr and one spot about 0.3 for a distance of 7' along the baseboard. SSG Truffa also wipe tested the Cs137 sources.

24 Apr 73 - 46th Eng continued to work on shipping container and looked at work to be done in Isotope Lab, on hood ducts and ceiling. It was established by SSG Truffa that the serial number of the AN/UDM-1A was 10 and not 86, as had been listed on the radioisotope inventory. The serial number 86 had belonged to the AN/UDM-1 which was modified to the AN/UDM-1A. SSG Truffa also emptied the Radioactive waste from the vacuum cleaner and started to package the AN/UDM-2. A long count (/6 hr) was begun on the wipe taken out of the 11F3A to determine half-life.

25 Apr 73 - 46th Eng took down ductwork in Isotope Lab. SSG Truffa surveyed with AN/PDR27. It does not appear contaminated. Post Eng came to check pumps in liquid waste control pit; nothing wrong. SSG Truffa wiped the 17-AN/UDM6 source sets. No excess leakage. Moved all 17 UDM 6's and 85MX7338's to the Isotope Vault in preparation for packaging. Packaged 8 boxes of office supplies from the office for shipment to Edgewood Arsenal. Started another long count on the 11F3A sample.

26 Apr 73 - 46th Eng completed the shipping container for the Cs137 sources. The sources were packaged in the container and locked with a chain by SSG Truffa. Sch Bn supplied a 4-man detail to work on the Alpha Field. All 407 alpha plates were removed from the concrete blocks and flushed with water to remove loose dirt and leaves. 172 of the plates were washed in a soap solution with a sponge and put through 2 rinses, then placed in the slotted boxes. The radioactive material signs were removed from the fence around the Alpha Field. The Bromine capsule was removed from the Bromine Field and placed in a 55-gal drum and the high radiation area signs were removed from the fence around the Bromine Field. The long count was continued on the wipe from the 11F3A.

27 Apr 73 - SSG Truffa washed the remaining 235 alpha plates and placed them in boxes as was done 26 Apr 73. All 407 plates were taken to the Rad Lab Vault. 407 plates from the field, 22 stored in Rad Lab Vault and 21 packaged as leakers = 450 plates, all accounted for. Several concrete blocks and the soil around them were checked with an AN/PDR60. No indications of contamination were noted. Water samples were taken from the wash and rinse waters. Soil samples were taken from the soil on and around the cement blocks. Some of the water samples appear slightly contaminated, but not the soil samples. The exact amount of contamination will have to be determined by long counting techniques.

1 May 73 - Sch Bn supplied a 4-man detail and SP4 Holdeman was borrowed from Rad Com to supervise the detail. All the concrete blocks were taken up and moved to the hard stand by the Bromine Field. The garbage cans were moved outside the fence with the fake bomb and drums. All the radiation area signs were gathered up and taken to the Hot Cell along with the nuts and metal pieces for the blocks. The blocks were checked by SP4 Holdeman using an AN/PDR60 alpha counter and the fiddler probe from the broken arrow kit for the U233 pulse height of 17 KEU. No contamination was noted. SP4 Starr and SSG Truffa leak tested the 429 alpha plates. The contaminated bags were moved to the vault. SSG Truffa packed another box of expendable supplies. Long counts were taken on the liquid waste water from the alpha plates.

2 May 73 - 46th Eng finished taking up the contamination in the museum and were told that the 3/4-ton truck and the wall lockers could be turned into Post PPO but the APC, airframe and radar unit would have to go to Anniston Army Depot. SP4 Starr wipe tested the Isotope Lab and Vault, Lab "T" and the storage bins from the vault. The storage bin wipes were counted and the highest levels were 169 DPM/100cm^2. Sch Bn supplied one M12-PDDA and operator to spray off the mud and dirt from the alpha blocks. Two tanks of water were used (1,000 gal of water). SSG Truffa completed counting the water samples and calculates to less than 0.2 uCi. Also packed 4 more boxes for shipment.

3 May 73 - 46th Eng started patching up the decon work in the museum. SP4 Starr continued counting the alpha plate wipes. SSG Truffa packed seven boxes of technical reference material and dosimetry records. Also started packaging AN/UDM 6's and Mx7338's. Made DOT 7A plate for Cs137 source container.

4 May 73 - 46th Eng continued work on museum. SP4 Starr continued counting alpha wipes. SSG Truffa continued counting Isotope and Lab "T" wipes.

7 May 73 - 46th Eng finished work on museum and worked on taking wings off the aircraft on the Bromine Pad. SSG Truffa submitted work order for boxes for radioactive material and the scalers. Also submitted the disposition request for radioactive waste for typing. Made up the radioactive labels for the 55-gal drums of waste. Boxed up 14 UDM 6's for shipment. Finished counting alpha wipes and Lab "T". All wipes within limits. Placed 4 film badges at various spots in the Hot Cell to determine approximate doses to personnel who might work in these areas. Started the pump to pump out the liquid waste disposal tanks for the Hot Cell system.

8 May 73 - SSG Truffa weighed all the radioactive material being shipped to APG, got the cube and took readings on all the boxes at the surface and at one meter. Numbered the boxes 1-43/43. Moved the 2-M3A1 source sets from the Rad Lab Vault to the Isotope Vault. Started to write the request for transportation of the 43 boxes of radioactive material to go to APG.

9 May 73 - SSG Truffa finished and submitted the request for transportation of the 43 boxes of radioactive material to APG for typing. Moved the 2 55-gal drums from the Isotope Lab to the storage yard and dumped the waste from the Hot Cell. Surveyed the lead for contamination and found one brick and a lead ring contaminated, put into 55-gal drum. Surveyed the lead storage pigs and found 6 contaminated along

with 1 top. Put all in 55-gal drums. The waste container from the Hot Cell was contaminated also. Took the crash bar and beat it small enough to fit into a 55-gal drum. Checked the 30-gal temporary storage drums and found no contamination with the AN/PDR27 and also the PRM-5 with the PG2 probe. No indications of contamination. Surveyed the storage yard where the background was low enough to allow it. The storage well concrete needs to be taken up, reading about 0.5 mrad/hr with an AN/PDR-27. The Northeast corner of the vault reads about 0.3 mrad/hr and will be taken up. Found a spot on the South side of the vault reading 2 mrad/hr and a spot near Lab "W" reading 35 mrad/hr. Both will be taken up. Finish putting corners on the boxes of Rad material for shipment to APG. Also finished labeling the M3A1 source sets. The alpha plates, the contaminated bagged equipment, 3 UDM 6's and the Cs137 sources need to be completed yet. Shut off the liquid waste pump and closed all valves except one, allowing the pump to pump directly to the sanitary sewer. Using the AEHA figures for the sample, we sent of 3.6×10^5 uCi/ml, 700 gal calculates to 95.4 uCi of Co-60 dumped.

10 May 73 - SSG Truffa sent out letter requesting disposition instructions on radioactive waste drums and DF requesting truck (van) for source shipment to APG. Made up letter to cancel film badge service and start at APG. Did calculation in preparation to dump Bromine tanks. Dumped Bromine tanks 3 & 4 and alpha plate wash and rinse water. Found pig on Bromine Pad contaminated, will put in drum. Showed 46th Eng what had to be done and told them of plans to put Bromine Pad items on Pelham Range for targets. Took down alpha field sign. Took the lock off the gate and opened the gates. Put the alpha plate wash and rinse buckets in waste drum. Took the lock off the Bromine Pad final discharge valve.

11 May 73 - 46th Eng worked on Bromine Pad to get pad items ready for transfer. SSG Truffa retrieved environmental check film badges. Time of exposure 127 hrs. Sent request to change film badge service.

14 May 73 - 46th Eng worked on airframe on Bromine Pad. Sch Bn supplied a 5-man detail for Iron Mountain. Post Eng supplied a backhoe. Backhoe dug down to about 7-8'. Highest readings found, 1.5 mrad/hr filled 3½ 55-gal drums with dirt. Filled back in hole and readings now 0.20-0.25 mrad/hr at the surface with an AN/PDR27. Neutron source was leak tested and packaged for shipment. The area of Lab "W" where the neutron source was located was surveyed with the PRM5 and PG2 probe. No indications of contamination were found. The neutron source was put in the Isotope Vault. All sources have now been closed in their shipping containers except the AN/UDM-1A and 3 commercial scaler calibration sources. All shipping containers have been marked and labeled except the Cs137 source container. All shipping containers must now be banded and the "TO" and "FROM" labels put on them.

15 May 73 - Got transportation request ~~into transportation on~~ 75 55-gal drums of waste and neutron source. 46th ENG started to clean up storage yard. SSG Truffa banded and put address labels on all radioactive source containers except the Cs137 container and 3 scaler calibration sources-all sources except those and the AN/UDM1A are ready to go.

16 May 73 - Gave remaining uncontaminated lead to 46th Eng and they began cleaning storage yard with help of 3-man detail from Sch Bn. Took 2 5-ton dump trucks from storage yard, Bromine Pad, Alpha Field and Hot Cell. Sch Bn furnished 2½-ton truck and driver w/ 3-man detail to take over sample of 55-gal drums to Transportation to be weighed. Drum #53-475 lbs, #52-728lbs, #45-676 lbs, #66-546 lbs, #1-1,038 lbs. With about 20 55-gal drums well under 200 lbs, 500 lbs per drum was agreed upon as a good estimate.

17 May 73 - Shipped out 43 containers of sources to APG by Roadway Trucking Co. 46th Eng started decon work on 8 hot spots in storage yard. SSG Truffa packed up radiation signs and checked fence line for signs.

18 May 73 - Sch Bn supplied a 6-man detail to tighten the lids on the 74 55-gal drums. Also labeled them. 46th Eng finished decon of 4 hot spots in yard. Post Eng crated up NBIF and all but source container of AN/UDM-1A which was lifted off with help of detail.

20 May 73 - SSG Truffa filled 75th 55-gal drum, dryed out 3-ton container and wipe tested the two 3-ton containers. The 3-tons are slightly contaminated, one reads 0.15 mrad/hr while the other does not indicate any meter readings on the AN/PDR27. Both indicate removable contamination less than 400 DPM/100cm^2. Sampled liquid waste in Isotope Lab, results negative.

21 May 73 - Sch Bn supplied a 4-man detail. The 75 55-gal drums were loaded and shipped by Bowman Trans, Inc. The neutron source was shipped out and SSG Truffa cleared and packed some more of Hot Cell. Checked Storage Yard with PRM 5 w/ PG2 and AN/PDR27; no spots found over limits.

22 May 73 - 46th Eng moved the APC and 3/4-ton truck to Pelham Range from the Bromine Pad. SSG Truffa cleaned up Hot Cell maintenance area in preparation for AEHA inspection.

23 May 73 - 46th Eng moved airframe and radar unit to Pelham Range.

24 May 73 - AN/UDM-1A shipping container was received. Navy supplied 4 personnel and Ofc of Log supplied 2 personnel to load the AN/UDM-1A. MAJ Wickstrom supervised. The container was marked and all documents completed. Alpha Field was plowed up by Post Eng.

25 May 73 - AN/UDM-1A was turned over to Transportation for shipment. 46th Eng continued cleanup of Rad areas. Sch Bn Supplied 4-man detail to mow the grass.

29 May 73 - The AEHA Team of MAJ Loddie and Mr. Wilborn began their inspection. The following areas were checked: Bldg 3182, 3180, Iron Mountain, Rad Labs in Bldg 3181 and the Storage Yard. One spot was found in Bldg 3180 reading about 5 mrad/hr at the surface and one in Bldg 3182 reading about 2 mrad/hr. It was decided some of the soil in the Storage Yard would have to come up. 46th Eng supplied 2 men to remove the contaminated concrete in the Bldgs and Sch Bn supplied 4 men to remove the dirt. 3 55-gal drums of dirt were removed.

30 May 73 - AEHA inspection continued the following areas were checked: Hot Cell, Alpha Field, Bromine Pad and liquid waste control pit. The Team also took 40 swipes in the various areas and one soil sample from the Alpha Field. No more "hot spots" were located. The 2 vacuum cleaners were readied to ship with the 3 55-gal drums of waste to APG. As a result, 5 55-gal drums and the tank vacuum were marked and placed on a 2½-ton truck for convoy to APG. Earl Wright was notified of the details. SSG Truffa started counting the wipes AEHA had taken.

31 May 73 - Mr. Wilborn and SSG Truffa finished counting swipes. All swipes less than 1000 DPM/100 sq cm. Only swipes taken in controlled areas (Hot Cell roof and liquid waste pit) exceeded 114 DPM/100 sq cm, but all were less than 1000 DPM/100 sq cm. AEHA Team briefed COL Vanderbleek, Commandant, USACMLCS, and COL Brooke, Deputy Post Commander, and gave Mr. Daniel, Post Safety Dir/RPO, a tour of the areas. SSG Truffa called LBG Army Depot and explained TS784 wipes would be late and got film results to hot cell environmental checks. Results indicate roof area of Hot Cell should be marked "Radiation Area."

DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is TAGO.

REFERENCE OR OFFICE SYMBOL	SUBJECT
ATZN-CM-AHP	Report to Nuclear Regulatory Commission (NRC)

TO Chief of Staff FROM HPO, USACMLS DATE 1 Mar 84 CMT 1 1LT Kingery/hj/4489

1. This is a decision paper (no suspense).

2. PROBLEM: To obtain the CG's signature on report to the NRC (TAB X).

3. FACTS BEARING ON THE PROBLEM:

a. Building 3192 (hot cell) and fenced area are licensed by NRC BML No. 01-02861-04.

b. Title 10, Part 20.405(a)(1)(v), Code of Federal Regulations, requires that a report be made within thirty days to NRC if the limits of the license are exceeded.

c. The limits were exceeded when Cesium-137 contamination was verified outside the fenced area in a study performed by the US Army Environmental Hygiene Agency (TAB A). The study was received on 15 Feb 84.

d. The Installation Radiation Control Committee met on 23 Feb 84 and recommended actions to be taken (TAB B).

4. CONCLUSION: A report to the NRC must be forwarded expeditiously to insure compliance with federal regulations.

5. RECOMMENDATION: That the CG approve and sign the report at TAB X.

3 Encl
as

ANDREW F. KINGERY
1LT, CmlC
Installation Radiation Protection Officer

6. COORDINATION:

Chairperson, IRCC	Concur/~~Nonconcur~~		DATE 1 Mar 84
DEH	Concur/~~Nonconcur~~		DATE 2MAR84
Asst Comdt, USAMPS	Concur/~~Nonconcur~~	for Sam Lupe	DATE 2 Mar 84
Asst Comdt, USACMLS	Concur/~~Nonconcur~~		DATE 8 Mar 84

7. RECOMMEND APPROVAL/~~DISAPPROVAL~~ _____ DATE 2 Mar 84
Chief of Staff

8. RECOMMEND APPROVAL/DISAPPROVAL TDY DATE _____
Deputy Commanding General

9. APPROVED/~~DISAPPROVED~~ _____ DATE 2 Mar 84
Commanding General

DA FORM 2496 PREVIOUS EDITIONS WILL BE USED ☆U.S. GOVERNMENT PRINTING OFFICE: 1982-372-711

DEPARTMENT OF THE ARMY
US ARMY CHEMICAL AND MILITARY POLICE CENTERS & FORT MCCLELLAN
FORT MCCLELLAN, ALABAMA 36205

REPLY TO
ATTENTION OF

Health Physics Office

2 MAR 1984

US Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Gentlemen:

This letter is a thirty-day report submitted as required by 10 CFR Part 20.405(a)(1)(v) and in the format specified. It addresses low levels of previously undetected Cesium-137 contamination outside of a restricted area licensed by BML No. 01-02861-04.

EXPOSURES: There have been no known personnel exposures.

LEVELS: The levels of contamination are outlined in a Radiation Protection Study, Hot Cell Contamination, Fort McClellan, Alabama, August 1, 1983, US Army Environmental Hygiene Agency (AEHA), dated February 6, 1984 (attached). The study was received at Fort McClellan on February 15, 1984. Contamination was detected outside the restricted area only at points less than one foot beyond the fence.

CAUSE: The cause of the contamination is apparently a result of decontamination efforts while the facility was in use, prior to 1973.

CORRECTIVE ACTIONS: A temporary fence enclosing the contamination has been erected. The restricted area will be extended (see map) with a new fence as recommended by AEHA. A surface water monitoring program will be initiated to evaluate run-off in all directions. An investigation will be conducted to evaluate the need for, and the possibility of, partial decontamination.

The Radiation Protection Study also identified extremely low levels of subsurface Cobalt-60 at a single location inside the restricted area. Another sample indicated that there has been no migration off-site. Additional core samples are planned, and the need for ground water monitoring will be investigated.

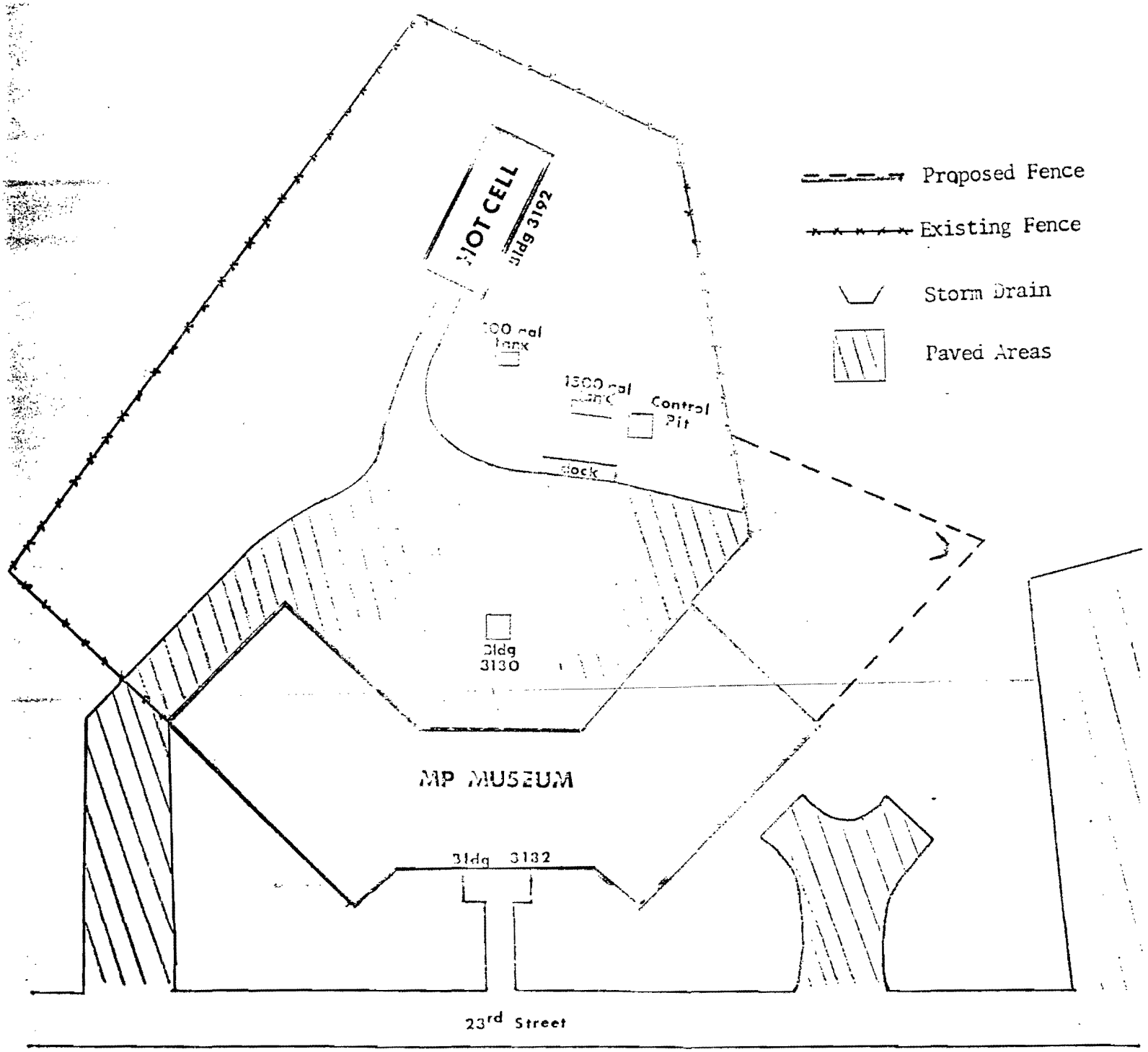
A copy of this letter has been provided to the US Nuclear Regulatory Commission Region II Office in Atlanta, Georgia.

Sincerely,

Alan A. Nord

Alan A. Nord
Major General, U.S. Army
Commanding

Enclosures


HOT CELL
Bldg 3192
Control Pit
Stack
Bldg 3130
MP MUSEUM
Bldg 3132
23rd Street
Proposed Fence
Existing Fence
Storm Drain
Paved Areas

DEPARTMENT OF THE ARMY
U. S. ARMY ENVIRONMENTAL HYGIENE AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010

1LT Scherer/dlc/AUTOVON
584-3502

REPLY TO
ATTENTION OF

HSHB-RH/WP

6 FEB 1984

SUBJECT: Radiation Protection Study No. 28-43-0012-84, Hot Cell Contamination, Fort McClellan, Alabama, 1 August 1983

Commander
US Army Training and Doctrine Command
ATTN: ATMD
Fort Monroe, VA 23651

1. AUTHORITY. Letter, ATZN-CM-AH, US Army Chemical School, Fort McClellan, Alabama, undated, subject: Request for Radiation Protection Survey.

2. REFERENCES.

a. AR 385-11, Ionizing Radiation Protection (Licensing, Control, Transportation, Disposal and Radiation Safety), 1 May 1980.

b. Title 10, Code of Federal Regulations (CFR), 1983 rev, Part 20, Standards for Protection Against Radiation.

c. Title 10, Code of Federal Regulations (CFR), 1983 rev, Part 30, Rules of General Applicability to Domestic Licensing of Byproduct Material.

3. PURPOSE. This study was conducted to determine the presence and extent of any health hazards resulting from the ionizing radiation producing contamination in and around Building 3192, Hot Cell, Fort McClellan, Alabama. Further, it was conducted to determine whether residual contamination has spread beyond the boundaries of the controlled area and whether contamination has been released to the water table.

4. GENERAL.

a. Building 3192 and the surrounding, controlled area are licensed under US Nuclear Regulatory Commission (NRC) Byproduct Material License No. 01-02861-04 for the storage of verified cobalt-60 and suspected cesium-137 contamination. The above license expired on 30 September 1983.

b. An entrance interview was held with 1LT Andrew F. Kingery, CmlC, Radiation Protection Officer. An exit briefing was held with COL John D. Spence, CmlC, Assistant Commandant, USA Chemical School.

c. The presence and extent of contamination was evaluated by analysis of environmental soil samples taken from the area surrounding the hot cell facility. Radiochemical analysis of the soil samples was provided by the Radiological and Inorganic Chemistry Division (RICD), this Agency. A diagram showing the locations where the soil samples were taken and the results of the soil sample analysis are given in the Inclosure.

d. This study was conducted by 1LT Van R. Scovill, MSC, and 1LT David J. Scherer, MSC, Health Physics Division, this Agency.

e. This study was conducted in conjunction with a Radiation Protection Survey of the US Army Chemical Center and School and Fort McClellan, Alabama, 27 July - 2 August 1983.

5. FINDINGS.

a. Controlled Area. Soil samples taken from the controlled area around Building 3192 were analyzed for cobalt-60 and cesium-137. A review of this analysis indicated the following:

(1) Cobalt-60 and cesium-137 contamination was present on the surface of the controlled area. Concentrations at the points sampled are indicated in the Inclosure. Concentrations ranged from 6.4 to 15 pico-curies per gram (pCi/g) of cobalt-60 and 0.41 to 1.7 pCi/g of cesium-137.

(2) Surface leaching to a depth of 1 foot had taken place at sample point (SP) 2, near Building 3192, and at SP 6.

(3) Subsurface contamination to a depth of 8 feet was present at SP 6. No contamination was found at 2 feet, indicating that the deeper contamination was not due to surface leaching. A 1500-gallon underground tank is located near SP 6. This tank holds contaminated water from the decontamination of Building 3192. Leakage from this holding tank is the probable source of subsurface contamination at SP 6. It was noted, however, that SP 5, also in the vicinity of the holding tank, showed no subsurface contamination.

b. Outside Controlled Area. Soil samples taken west of the controlled area around Building 3192 were also analyzed for cobalt-60 and cesium-137. A review of this analysis indicated the following:

(1) Low-level concentrations were present on the surface of the gully running to the west of the controlled area, indicating that some spreading due to erosion has taken place.

(2) Surface contamination was present next to the concrete apron behind Building 3182, Military Police Corps Museum. Concentrations ranged up to 91 pCi/g of cobalt-60 and 55 pCi/g of cesium-137.

HSHB-RH/WP
SUBJECT: Radiation Protection Study No. 28-43-0012-84, Hot Cell Contamination, Fort McClellan, Alabama, 1 August 1983

6. DISCUSSION. The contamination in and around Building 3192 is currently licensed by the NRC. Concentrations of cobalt-60 less than those specified in 10 CFR 30.70 are exempt from requirements for a license; however, there are no exemptions for any concentrations of cesium-137.

7. CONCLUSION. A review of the findings indicated that a potential health hazard existed at Fort McClellan, Alabama, due to spreading of ionizing radiation producing contamination in and around Building 3192. It was specifically determined that contaminants had spread west of the controlled area and had been released below the surface. The following recommendations are provided to alleviate the potential hazards.

8. RECOMMENDATIONS.

a. Controlled Area. Prevent discharge of contaminated water from the 1500-gallon tank in the vicinity of Building 3192 in accordance with 10 CFR 20.301. This can be done in three ways:

(1) Relocate the water and hold it for decay.

(2) Dilute the contaminated water and dispose of it in accordance with 10 CFR 20.303. Concentration and solubility analysis may be requested from RICD, this Agency.

(3) Dispose of the water as radioactive waste in accordance with paragraph 5-81, AR 385-11.

b. Outside Controlled Area.

(1) Extend the fence around the controlled area to include the area west of the concrete apron adjacent to Building 3182 in accordance with paragraph 2-7a, AR 385-11. Consider covering this area with concrete to prevent further spreading due to erosion.

(2) Extend the fence around the controlled area to include the gully area which has verified cesium-137 contamination in accordance with paragraph 2-7a, AR 385-11.

FOR THE COMMANDER:

Joseph T. Whitlaw, Jr.

1 Incl
as

JOSEPH T. WHITLAW, JR
Colonel, MSC
Director, Radiation and
Environmental Sciences

CF:
HQDA (DASG-PSP)
Cdr, HSC (HSPA-P)
Comdt, AHS (HSHA-IPM)
Cdr, DDEAMC (PVNTMED Actv) (2 cy)
Cdr, MEDDAC, Ft McClellan (PVNTMED Actv) (2 cy)
C, USAEHA-Rgn Div South

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SUBJECT: Radiation Protection Study No. 28-43-0012-84, Hot Cell Contamination, Fort McClellan, Alabama, 1 August 1983

SOIL SAMPLE ANALYSIS

Sample Identification	Sample Point	Depth (ft)	Picocurie per Gram ± Standard Deviations Cobalt-60	Cesium-137
1	1	surface	<0.28	1.2 ± 0.2
2	1	1.5	<0.05	<0.03
3	1	3	<0.13	<0.12
4	1	4.5	<0.03	<0.02
5	1	6	<0.09	<0.07
6	1	6.5	<0.09	<0.09
7	2	surface	15 ± 0.7	0.52 ± 0.19
8	2	1	0.84 ± 0.23	<0.13
9	2	2	<0.09	<0.02
10	2	3	<0.18	<0.09
11	3	surface	4.9 ± 0.4	0.41 ± 0.14
12	3	1	<0.21	<0.11
13	3	2	<0.03	<0.0[illegible]
14	4	surface	0.91 ± 0.17	0.69 ± 0.16
15	4	1	<0.19	<0.14
16	4	2	<0.05	<0.02
17	4	3	<0.17	<0.11
18	4	4	<0.05	<0.04
19	4	5	<0.18	<0.12
20	4	6	<0.07	<0.04
21	4	7	<0.16	<0.15
22	4	8	<0.22	<0.15
23	5	surface	1.1 ± 0.2	1.7 ± 0.2
24	5	1	<0.35	<0.16
25	5	2	<0.10	<0.03
26	5	3	<0.17	<0.10
27	5	4	<0.09	<0.09
28	5	5	<0.25	<0.13
29	5	6	<0.23	<0.15
30	5	7	<0.24	<0.19
31	5	8	<0.08	<0.08
32	6	surface	6.4 ± 0.4	1.7 ± 0.2
33	6	1	0.54 ± 0.24	<0.19
34	6	2	<0.07	<0.06
35	6	3	0.88 ± 0.21	<0.20
36	6	4	3.8 ± 0.5	0.48 ± 0.15
37	6	5	1.2 ± 0.3	0.22 ± 0.15
38	6	6	0.79 ± 0.18	<0.04
39	6	7	0.96 ± 0.29	<0.20
40	6	8	2.4 ± 0.3	<0.07
41	7	surface	2.8 ± 0.3	0.67 ± 0.16
42	7	1	<0.24	<0.11
43	7	2	<0.17	<0.13
44	7	3	<0.23	<0.12
45	7	4	<0.22	<0.15
46	a	surface	34 ± 1	42 ± 1
47	b	surface	35 ± 1	7.1 ± 0.5
48	c	surface	91 ± 3	55 ± 2
49	d	surface	51 ± 2	10 ± 1
50	e	surface	2.5 ± 0.4	1.1 ± 0.2
51	f	surface	3.2 ± 0.5	1.4 ± 0.2
52	g	surface	<0.10	<0.10

Alphus L. Jones

ALPHUS L. JONES
Chief, Radiological and Inorganic Chemistry Division

HSHB-RH/WP
SUBJECT: Radiation Protection Study No. 28-43-0012-84, Hot Cell Contamination, Fort McClellan, Alabama, 1 August 1983

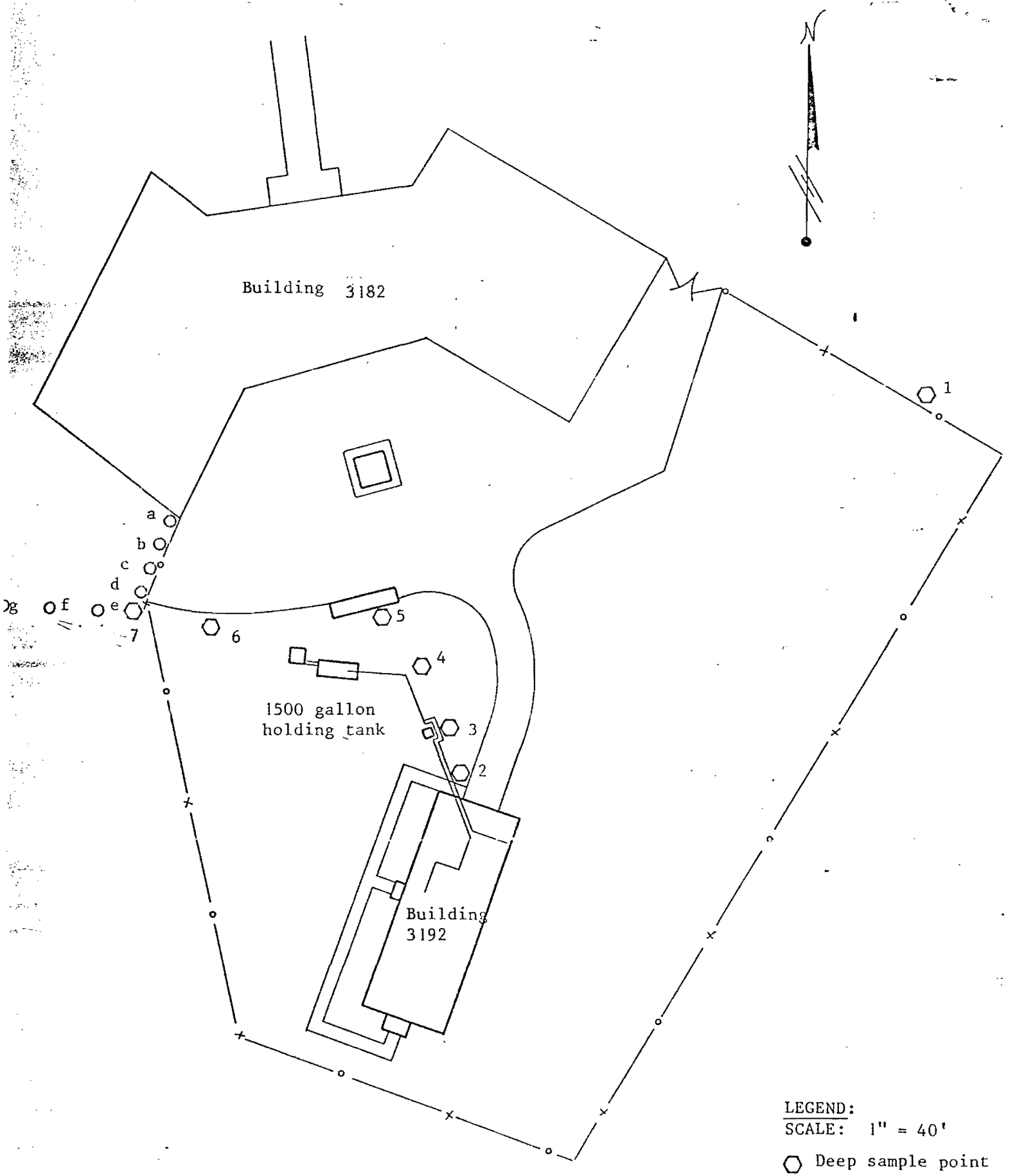


FIGURE. Sample Locations

DEPARTMENT OF THE ARMY
US ARMY CHEMICAL SCHOOL
FORT MCCLELLAN, ALABAMA 36205

REPLY TO ATTENTION OF:

ATZN-CM-AHP

2 MAR 1984

SUBJECT: Minutes of the Installation Ionizing Radiation Control Committee

SEE DISTRIBUTION

1. General: The IRCC met at 1430, 23 February 1984, in Building 1060.

a. Members present.

LTC Foster, J.B., USACMLS, Chairperson
COL Tipton, J.D., USACMLS
LTC(P) Hood, J.P., USAMEDDAC
LTC Phillip, J.P., USACMLS
CPT Daniels, R.L., USAMEDDAC
1LT Kingery, A.F., USACMLS
Dr Choppala, J.D., USACMLS
Mr. Meyers, K., USAMEDDAC

b. Others present.

COL Spence, J.D., USACMLS
LTC Donovan, C.F., USAMPS
CPT Atterbury, J.E., USACMLS
Mr. Clark, E.R., DEH

2. Old Business: None.

3. New Business:

a. LTC Foster opened the meeting by introducing LTC(P) Hood as a new member of the IRCC. The purpose of the meeting was to discuss actions to be taken in response to Radiation Protection Study No. 28-43-0012-84, Hot Cell Contamination, Fort McClellan, Alabama, 1 Aug 83, USA Environmental Hygiene Agency, dated 6 Feb 84 (Encl 1). Copies of the study had been distributed prior to the meeting.

b. 1LT Kingery presented to the committee a briefing on US Nuclear Regulatory Commission (USNRC) By-product Material License No 01-02861-04 which licenses residual Cobalt-60 and suspected Cesium-137 contamination at Bldg 3192 (Hot Cell), Bldg 3180 (Storage Shed), and the surrounding area. The license has an expiration date of 30 Sep 83 and a timely renewal was submitted on 30 Jun 83. The license will remain current until USNRC takes action on the renewal.

c. 1LT Kingery presented the surface sample results of the contamination study. The presence of Cesium-137 has been verified just outside the west fence of the limited access area (7-55 pCi/gm). There are no maximum limits established by USNRC for Cesium-137. A thirty-day report to USNRC is required by Title 10, Part 20.405(A)(1)(V), Code of Federal Regulations. The study was received on 15 Feb 84. The report to USNRC must contain four paragraphs:

(1) Exposures to personnel.
(2) Levels of exposure or contamination.
(3) Cause
(4) Corrective actions which have been planned or taken.

The report must be signed by MG Nord.

d. There have been no known personnel exposures as a result of the contamination. The levels of known contamination are in the study.

(1) COL Spence asked how far did the contamination extend beyond the fence. 1LT Kingery said that instrument surveys showed that the surface contamination went only six inches or so beyond the limited access area. COL Spence said that a grid survey is required so that the possibility of other hot spots can be excluded.

(2) LTC Phillip asked about other studies that have been performed outside the licensed area. 1LT Kingery reported that Bldg 3182 (MP Museum) had been thoroughly surveyed in 1973. The runoff gullies have been sampled many times. Instrument surveys have been performed along the fence. None of the previous studies have shown contamination outside the licensed area.

e. The cause of the Cesium-137 contamination has not been established. A water runoff study of the paved area was performed in Jan 84. All of the water on the paved area flows to the east, away from the contamination along the fence. The most probable cause is that past decontamination efforts may have swept or washed radioactive material off the paved area.

(1) LTC Foster asked if the contamination along the fence was likely to spread. 1LT Kingery reported that there is no evidence of erosion and that there is no significant water runoff in that area. The drain pipes from the MP Museum exit onto the pavement and flow the other way.

(2) COL Spence suggested that it may be easier to dig up the contamination. The depth of the contamination will have to be established.

(3) LTC Donovan said that the MP Museum is planning to open the west wing to the public. He asked if any contamination could get inside the building. 1LT Kingery said that Bldg 3182 was cleared by both USAEHA and USNRC in 1973. The possibility of recontamination is remote.

(2) The committee recommended establishment of a surface water monitoring program to be coordinated with the Environmental Office and the Health Physics Office.

(3) The committee did not recommend sealing.

(4) The committee did not recommend partial decontamination at this time. However, if the contamination is found to be limited to the surface, the option will be reconsidered.

(5) The committee did not recommend complete decontamination.

h. 1LT Kingery presented the core sampling results to the committee. Low levels of Cobalt-60 contamination (1-3 pCi/gm) were found in one core (No. 6) three to eight feet below the surface, approximately fifteen feet down slope from the underground storage tanks. No subsurface contamination was found at another core sample (No. 7) at the edge of the fence. The cause of the contamination has not been pinpointed, but it appears to be from the underground storage system since no contamination was found at two feet below the surface. No regulatory response is required, however, some type of corrective action should be considered.

i. The committee considered four possible options.

(1) No action is required since the contamination levels are very low. If it is assumed that the source of the contamination occurred in 1973, the flow rate is less than two feet per year. If it is assumed that the direction of flow is down slope, then the subsurface contamination has not migrated off-site.

(a) COL Spence said that additional samples are required to pinpoint the contamination limits and to identify the source.

(b) Mr. Clark stated that the geology in the immediate area of the Hot Cell is not accurately known. The US Geological Survey has been contacted and can provide assistance in siting core samples. The drilling would have to be contracted.

(2) A ground water monitoring program could be initiated to detect and assess any subsurface migration off-site.

(a) Mr. Clark said that the US Geological Survey could assist in siting ground water wells also. It would cost approximately $1500 for siting and approximately $800 per well.

(b) COL Tipton asked why no core samples had been drilled adjacent to the underground tanks. 1LT Kingery reported that it had been tried, but the tanks were bedded with gravel and drilling is impossible.

f. 1LT Kingery presented five corrective actions to be considered by the committee.

(1) Fencing would be the minimum corrective action required. The fence could be built just around the contamination (75 ft.), or it could include the gully and the storm sewer drain (200 ft.).

(a) LTC Donovan said that the MP Museum could move the patrol boat which is at the corner to a new location.

(b) Mr. Clark said that the fencing would cost about $17 per foot.

(2) Surface water sampling could be performed easily and cheaply. Surface waters on Fort McClellan were sampled in 1981 by USAEHA and no radioactive contamination was found. About eleven sampling locations would be required.

(3) Sealing the contamination in place with concrete would help minimize the possibility of migration.

(a) COL Spence said that his experience was that sealing did not work. The contamination can spread from under the seal, and any decontamination efforts are made more difficult. In addition, the seal doesn't last because any seal will eventually crack, especially when placed on soil.

(b) Dr. Choppala said that a seal would prevent investigation of subsurface spreading.

(4) Partial decontamination might remove the problem entirely. However, if the contamination extends below the surface, digging might compound the problem. Any soil removed would have to be stored and disposed of.

(5) Complete decontamination is an option for the future. An environmental study is being prepared by CPT Atterbury as a student study project for the Chemical Officer's Advanced Course.

(a) COL Spence said that USATHAMA would not place a high priority on this project since the contamination is limited to the installation.

(b) Mr. Clark said that no large scale operations could be considered until an environmental assessment is complete.

g. LTC Foster concluded discussion by calling for a vote on each option discussed.

(1) The committee recommended fencing to encompass the gully and storm sewer drain.

(3) Removal of the waste water in the 1500 gallon storage tank was recommended by USAEHA.

(a) 1LT Kingery reported that the 100 gallon storage tank is dry and the sludge at the bottom is highly radioactive (3000 pCi/gm). The 1500 gallon storage tank was last sampled in 1977 and the concentrations were low enough for discharge to the sanitary sewage system. 1LT Kingery recommended pumping out the tank using a filter instead of using the existing system. The existing system has not been used in seven years and the piping and pumps are badly corroded.

(b) Mr. Clark said that a Discharge Permit may be needed from the City of Anniston. 1LT Kingery said that under a Memorandum of Understanding between the Environmental Protection Agency and USNRC no permit is required. USNRC's office in Atlanta will provide a written interpretation if asked.

(c) COL Spence said that there is no evidence that the 1500 gallon tank is the source of the contamination.

(d) Temporary storage and disposal were discussed and discarded because of cost considerations.

(4) Decontaminating the entire underground system was discussed and discarded because that option would amount to decontaminating the entire area.

j. LTC Foster concluded discussion by calling for a vote on each option discussed.

(1) The committee did not recommend taking no action and agreed that some plan should be forwarded to USNRC.

(2) The committee recommended that the US Geological Survey be contacted to provide siting assistance for core sampling and ground water monitoring wells.

(3) The committee recommended that additional core samples be taken and that ground water monitering wells should be established.

(4) The committee did not recommend discharging the water from the 1500 gallon storage tank.

(5) The committee did not recommend decontamination.

k. LTC Foster directed 1LT Kingery to write a decision paper and a thirty day report reflecting the committee recommendations for MG Nord's signature. The committee agreed that LTC Foster would represent the IRCC during coordination.

ATZN-CM-AHP
SUBJECT: Minutes of the Installation Ionizing Radiation Control Committee

4. There being no further business, the IRCC meeting was adjourned.

ANDREW F. KINGERY
1LT, CmlC
Committee Secretary

Recommend approval:

JOE B. FOSTER
LTC, CmlC
Chairperson

APPROVED:

ROBERT B. LANDER
Colonel, GS
Chief of Staff

DISTRIBUTION:

1-Ea indiv conc
5-HPO File

Memo For Record - 14 June 1973
SUBJECT: Final Radiological Clearance

1. The USAEHA Clearance Team was here 29-31 May 73 and the AEC Region II representative was here 6 Jun 73 to perform final survey and to give us the OK radiologically.

2. Both brought instruments and did some checking, and both gave us the green light.

3. The residual contamination is being held under an AEC license, for which application was made 4 May 73 and which is inclosed in the close-out file.

4. AEHA was to have sent us a "fast" letter, clearing us for inclosure in this file, but it has not arrived as of this date. Thus we are operating under their verbal clearance (the Team had an exit interview with the Commandant).

Charles J. Wickstrom

CHARLES J. WICKSTROM
MAJ, CmlC
Chief, Health Physics Div

Summaries 14 June 1973

The Radiological Decontamination Plan dated 16 Feb 73 included provision for seven summaries which are attached hereto. Mr. Holladay of Dir of Fac Eng, Bldgs & Grounds, has been sent the summaries he was designated to receive in the plan. (The task numbers on the attached summaries refer to the Decon Plan, which is included in the close-out file.)

Task 18: Bldg 3192 and Liquid Waste Disposal System

1. The required instructions are to be found in Fort McClellan Reg 385-8, written by MAJ Wickstrom and Mr. Daniel, dated 4 Jun, contained in the close-out file and in the attached instructions for Liquid Waste Disposal System.

2. The residual contamination resulted in an AEC license requirement imposed by Mr. Fagan at DA.

LIQUID WASTE SYSTEM OPERATION

I. To Sample Water From Hot Cell Liquid Waste Tanks, unscrew cap from Breather Pipe Above 1500 Gal Tank, and replace elbows.

1. Close valve A (valve from sump pump).
2. Open valve B (low level discharge 1500 gal tank).
3. Open valve C (main route bypass).
4. Open valve D (liquid return to 1500 gal tank).
5. Press "ON" switch for pump motor.
6. Allow liquid to circulate for about 24 hours.
7. Obtain a sturdy one quart plastic container which can be sealed.
8. Open valve E (sampling point) and fill container with liquid using the attached hose.
9. Close valve E, turn pump motor "OFF". Close valves D, C, and B, open valve A.
10. Send sample to AEHL for analysis.
11. Replace breather cap.

II. To Pump Water from Hot Cell Liquid Waste Tanks,

Remove 1500 gal tank breather cap and replace elbows.

1. Close valve A (valve from sump pump).
2. Open valve B (low level discharge 1500 gal tank).
3. Open valve C (main route bypass).
4. Unlock valve F (final discharge to sanitary sewer) and open.
5. Press "ON" button for pump motor.
6. When liquid level indicator indicates all water is gone from tanks, press "OFF" button for pump motor, close valve F and lock it, close valves C and B, and open valve A.
7. Replace breather cap.

III. The sump pump is a separate motor in the pit and operates to pump water to sewerage when the level rises above the float switch located in the pit.

IV. Maintenance consists of insuring motors are operational and that general repair of system is performed as required.

Task 27: Bldg 3180 and Environs

1. The formerly raised concrete pad surrounding Bldg 3180 has been taken up and repoured, all contamination was below acceptable limits.
2. The inside of the bldg formerly had spots up to 210 mr/hr and has been decontaminated by surface removal, down to acceptable limits.
3. The interior storage well was concrete-filled.
4. The exterior well, just off the SW corner of Bldg 3180, was filled to 1' below surface, lead was melted into the hole, then the rest was poured. This filled well is still contaminated below the lead. Highest reading before filling was 50 mr/hr about 8' down (bottom). This was a storage well, not a water well.
5. This bldg can now be used as a paint or storage shed.

Task 47: Bromine Pad

1. This facility is now ready for use as an installation vehicle wash rack.
2. Maintenance instructions are attached.

MAINTENANCE OF BROMINE PAD
LIQUID WASTE DISPOSAL SYSTEM

1. VALVES SHOWN AS A, B, C, D AND E SHOULD REMAIN OPEN, ALL OTHER VALVES NOT SHOWN SHOULD BE CLOSED.

2. MAINTENANCE CONSISTS OF keeping THE DRAIN GUTTER AND DRAIN PIPES FREE OF DEBRIES.

3. IF FOR SOME REASON WATER COLLECTS IN ANY OF THE HOLDING TANKS, IT MAY BE EMPTIED BY OPENING THE VALVE ON THE LARGE PIPE AT THE BOTTOM OF THE TANK.

Task 56: Alpha Field

All decon tasks have been complied with on schedule and this fenced facility is now open for general use, no contamination remaining. The soil has been tilled to a 6" depth according to instructions.

Task 58: Rideout Field

1. The USAEHA Survey Team made up of MAJ Lodde and Mr. Wilborn surveyed this site on their first close-out-associated visit 4-7 Feb 73. At this time, they stated that there was no residual contamination that was above acceptable limits, including the old fenced, former burial ground, and they did not bother to reinspect the site after that.

2. MAJ Anderson's input on the Rideout Field phase-down, which he supervised, is included in the close-out file (his letter is dated 16 Feb 73).

Task 60: Iron Mountain (Rattlesnake Gulch)

1. An excerpt of the report in the Health Physics file is included as the first document in the close-out file.

2. This site was surveyed by USAEHA 4-7 Feb 73 and again 29-31 May 73, having been decontaminated by soil removal in the meantime. Ten drums of soil were removed by troop labor and sent to Kentucky for burial.

3. The site was found to be within acceptable contamination limits at the time of the radiological clearance survey 29-31 May 73.

4. For a map of how to find the site (near Summerall Gate), see the first document in the close-out file.

Task 61: Old Radium Vault (Bldg 812½)

1. This item came up when COL Ladson, formerly Commandant of USACMLCS, recalled its location and asked MAJ Anderson about it.

2. This was decontaminated by surface removal by MAJ Anderson.

3. The USAEHA Team found this bldg to be within acceptable contamination limits during their visit 4-7 Feb 73 and did not revisit it thereafter.

4. This bldg is fine for use as a paint or storage shed.

Statement of Bldg Clearance

1. The USACMLCS has used several buildings for radiation training areas in the past. These bldgs listed below are free of contamination or have very small amounts of contamination which are within acceptable limits.

Bldg 3182
Bldg 3180
Bldg 3181
SW half of Bldg 3192

These have required some decontamination to achieve this status, but are now OK for unlimited use.

2. The NE half of Bldg 3192 and some associated underground items are still contaminated to a small degree. This is under the control of Mr. Daniel, Post Safety Director and RPO. AEC and DA have approved our measures. Signs have been erected.

DEPARTMENT OF THE ARMY
US ARMY CHEMICAL SCHOOL
FORT MCCLELLAN, ALABAMA 36205-5020
July 25,1990

REPLY TO
ATTENTION OF

Health Physics Office

SUBJECT: AMCSF-P90-00148

U.S. Nuclear Regulatory Commission, Region II
Material Radiation Protection Section
101 Marietta Street, NW.
Suite 2900
Atlanta, Georgia 30323

Gentlemen:

The following Statement of Intent to provide funding for decommissioning is forwarded as required by Title 10 Code of Federal Regulations.

Applicable License: BML 01-02861-05, and SNM 1877.

Facilities Affected: Building 1081, Sibert Hall, Edwin R. Bradley Radiological Laboratories and alpha field.

Statement of Intent: The U.S. Army Chemical School will request, as necessary, funding for decommissioning the above listed facilities. In accordance with 10CFR 30.35 and 70.25, the decommissioning costs are estimated at $750,000. Records pertaining to the safe and effective decommissioning of these facilities will be maintained in the Health Physics Office.

As Assistant Commandant of the U.S. Army Chemical School, I certify that I have the authority to sign this Statement of Intent. A copy of my assumption of command is attached.

Joseph B. Goss, Jr.
Colonel, Chemical
Assistant Commandant

Attachment

Copies Furnished:

U.S. Army Training & Doctrine Command, ATTN: ATOS
U.S. Army Materiel Command, ATTN: AMCSF (P. Elker)

FEE EXEMPT

USACMLCS
Radiological
Close-Out
File

-

Arranged
Chronologically
Following
Cover DF

ATSCH-HP

SUBJECT: Documentation of Radiological Close-out of USACMLCS

District Engineer, US Army Engineer District, P. O. Box 2288,
Mobile, Alabama 36628
Commander, US Army School/Training Center, ATTN: AJMGP-S-S (Saf Dir),
Fort McClellan, Alabama 36201

1. Inclosed is a thick file of documents which covers all aspects of the radiological close-out of the USACMLCS at Fort McClellan, Alabama.

2. A duplicate file is being retained at US Army Ordnance Center and School, Aberdeen Proving Ground, Maryland, in the Health Physics Division there (within the Office of the Secretary).

3. The principal reason this file is being sent to you for retention is that there is residual contamination left behind at Fort McClellan, and this paperwork fully documents all steps taken regarding this facet. All the contamination that could be removed within our time, money and work force constraints has been removed. That which remains is very small in amount but is readily detectable with a meter at certain locations. Access denial measures have been taken. DA and AEC have approved the entire arrangement.

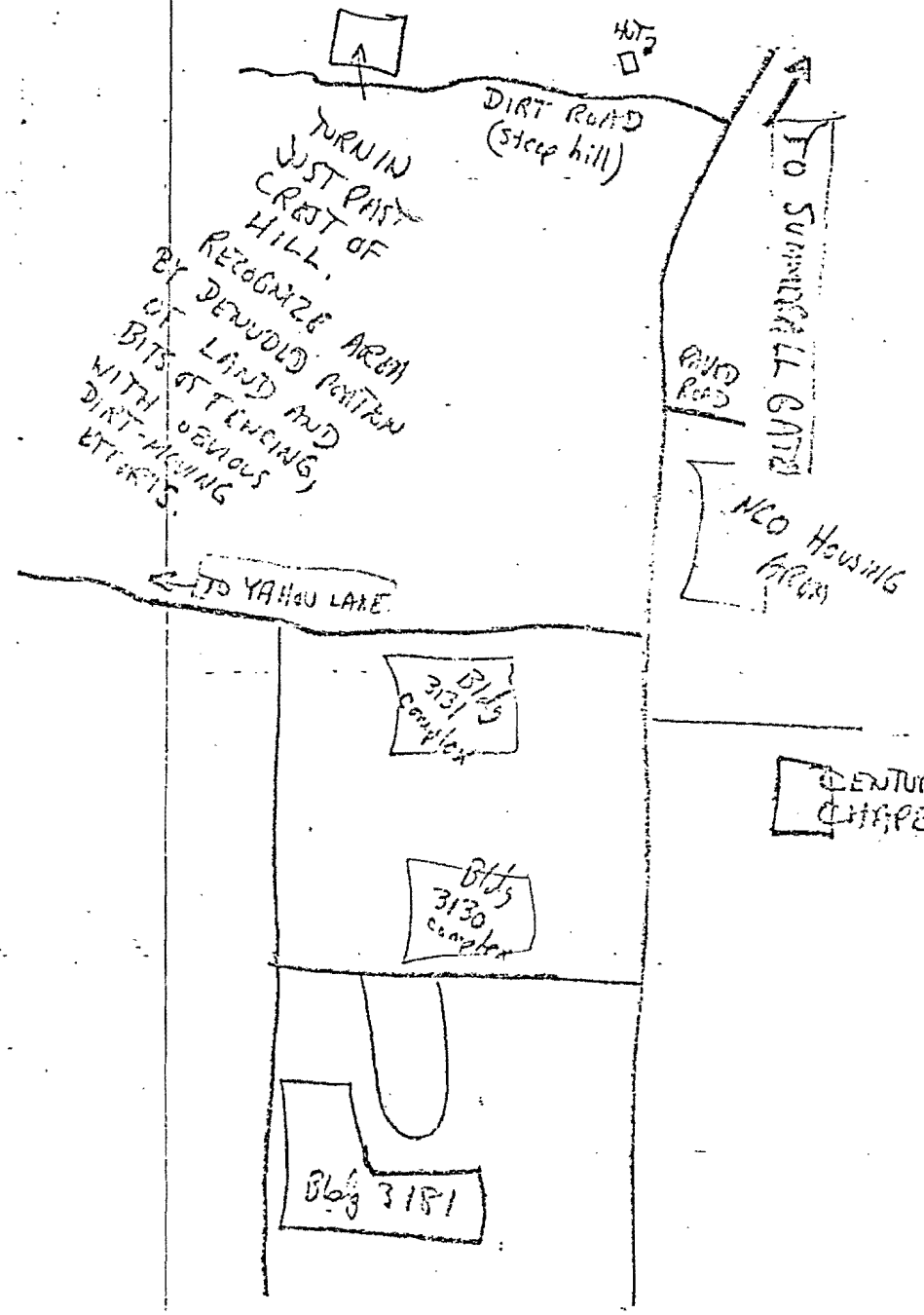
JACK VANDERBLEEK
Colonel, CmlC
Commandant

MFR: Self-explanatory.

CHARLES J. WICKSTROM, MAJ, CmlC, C, Health Phy Div/14 Jun 73/kh/3108

JUN 1972

MAP OF LOCATION OF IRON MOUNTAIN SITE



THIS SITE WAS EXTENSIVELY DECON'd BY MAT ANDERSON IN 1971 AND A ONE INCH THICK FILE ON THIS IS LOCATED AT THE USAOC's HEALTH PHYSICS OFFICE.

MOST OF THE CONTAMINATION WAS REMOVED AT THAT TIME.

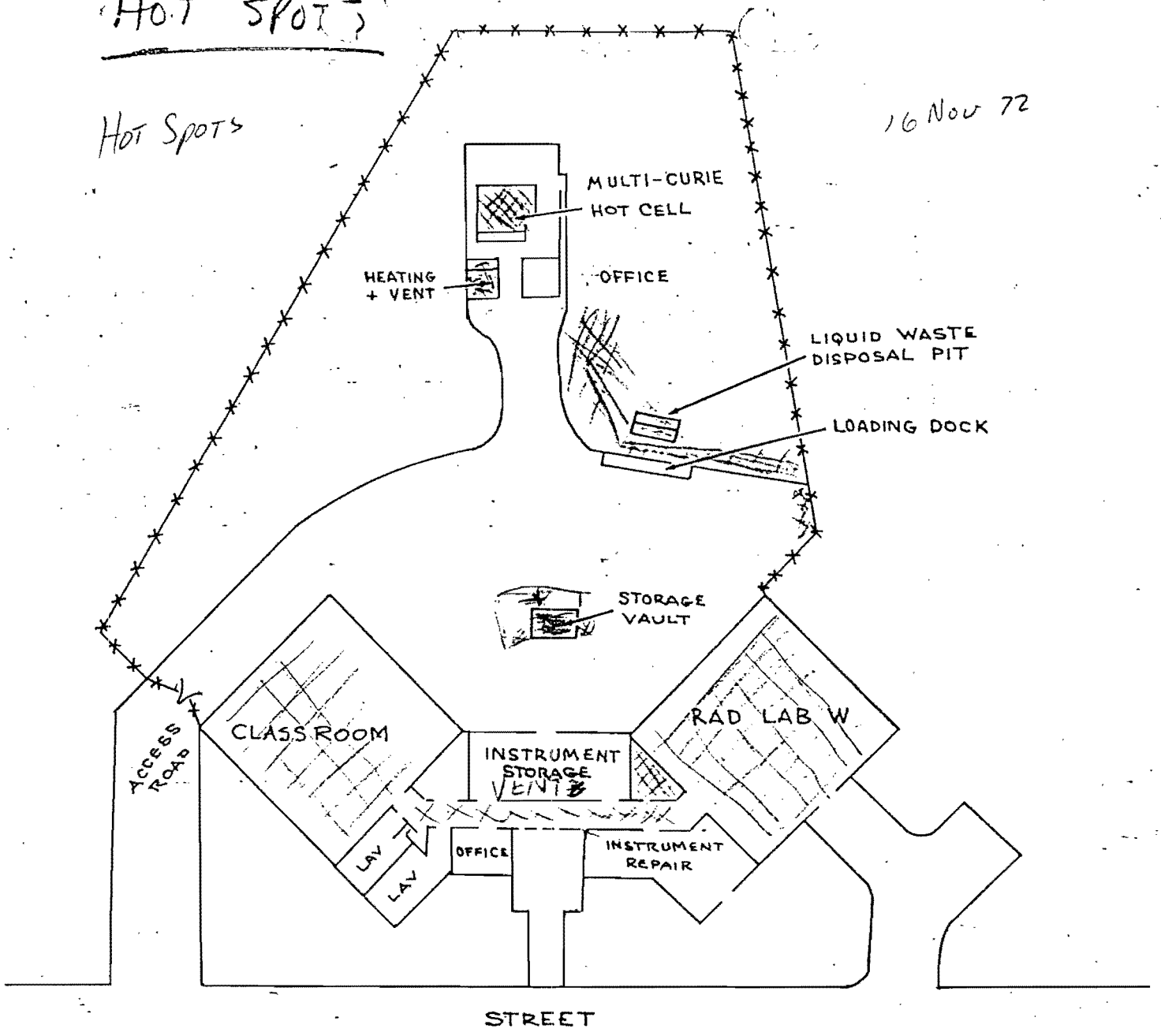
THE TWO PRINCIPAL SUMMARIZING DOCUMENTS FROM THAT FILE ARE ATTACHED. (Given to AEHA 4-7 Feb Visit)

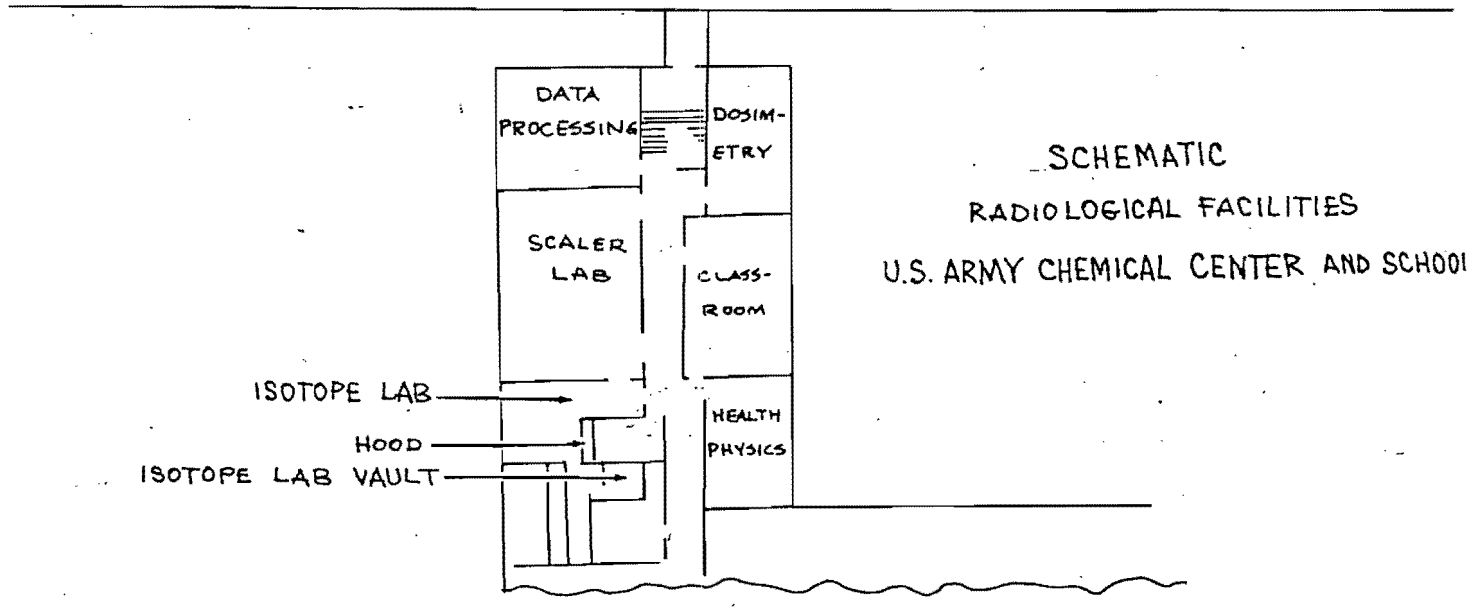
HOT SPOTS

16 Nov 72

Hot Spots

16 Nov 72





SCHEMATIC

RADIOLOGICAL FACILITIES

U.S. ARMY CHEMICAL CENTER AND SCHOOL

ATSCM-HP 4 Dec 72

PLAN FOR DISPOSITION OF RADIOACTIVE MATERIAL AND TRAINING AREAS OF USACMLCS

General: AR 700-52 par 3j and 8c requires "lifetime control" of radioactive materials, so some plan for disposal is necessary. CFR 10 Part 20 does not talk about contamination limits, but does specify limits for restricting access, and for release of effluents to unrestricted areas. AEC has historically set the contamination limits on an individual case basis. However, it is clear that some type of measurement and possible decontamination will have to take place before USACMLCS rad instruction areas are turned over to other parties. Also the AEC licenses themselves must be closed out.

THE ABOVE THREE AREAS ARE AMPLIFIED AND TIME-PHASED AS SHOWN BELOW:

AREA#(1) SOURCES

ASSUMPTION 1: None of the radioactive material currently on hand at USACMLCS will be retained at Ft McClellan. This includes material on our licenses as well as standard Army items.

RQMT: All radioactive material must be disposed of by shipment or by release to environment.

DISCUSSION: Release to environment will suffice only for Bromine-82 exercise effluent and for other low-level short half-life sources used in Scaler Lab T which can be allowed to decay before disposal.

For other items we are directed by AR 755-15 "Disposal of Unwanted Radioactive Materials" to notify Edgewood Arsenal and request disposition instructions. Edgewood Arsenal decides whether disposal by contractor burial in Kentucky or transfer will be utilized (these are the only two disposal options exercised previously for USACMLCS - others could come into play but the important thing is that we simply await the word on this).

TIME-PHASING:

Decay and release to environment — BEGIN when word arrives presumably 9 Feb; TERMINATE when decay makes materials sufficiently low in activity, dispose of by release to environment NLT 30 Jun

TWX Edgewood Arsenal, requesting disposition instructions for ALL radioactive sources on hand at USACMLCS — 9 Jan

Receive answer — 9 Feb

Let contract , for those items requiring it — 9 Apr

Shipment of those items for which designated, by — 9 May

Turn over to contractor for items so designated — BEGINS 9 May; COMPLETION 24 May

Notify Mr Bradley to curtail Rad elective course for COAC — 8 Jan

Notify AOD to alter Rad file # scheduling as appropriate to schedule for disposition of sources — 10 Feb

AREA#(2)
RAD TRAINING AREAS — Contamination limits will be a subject of negotiation with AEC.

ASSUMPTION 2: We can get AEC to relieve us of the necessity of observing the stringent limits for contamination specified in our Memo 385-2(which is a part of our license). This will allow us to ease from 200 dpm which is 9×10^{-5} microcurie to the generally accepted .1 mr/hr which was used at the Carlsbad operation and Bikini Clean-Up, as well as the criterion for sale of surplus scrap to people, in all of which the AEC opinion governed.

ASSUMPTION 3: All USACMLCS facilities will be desired to remain, that is, nothing is to be levelled. In the rad facilities area this includes Bldg 3180, 3182, 3192, and the Alpha Field and Bromine Field.

RQMT : All radioactive contamination above the limits decided upon will have to be removed or otherwise decontaminated before USACMLCS can turn over the areas.

DISCUSSION: More lenient limits as assumed will greatly simplify but not entirely eliminate the need for decontamination operations. Cement chipping and re-laying were used in the past in the paved area behind Bldg 3182, and may be required again, as well as in the Hot Cell and in the locked room in Lab W. Tiles may have to be removed and replaced in various parts of Lab W as well, since contamination of several times background does exist there and is fixed in nature. A definitive radiological survey just prior to negotiations with AEC on limits will provide a good starting basis. Bldg 3180 and the area about it including a radioactive well are other items that will need special attention in decontamination. Sandblasting or steam cleaning might be selected as decontamination methods in some cases. Selection of methods will depend upon Post Engineer capabilities as well as the exact limits decided upon.

TIME-PHASING:

Phone MAJ McNulty, CONARC RPO Mr Fagan, HQDA Mr Basin, AEC Licensing	8 JAN
Complete definitive survey of facilities (Begin in December)	8 JAN
Consult with Post Engineers	15 JAN
Come up with decontamination work schedule for all buildings and areas, based on negotiations and consultations	30 JAN
Let contracts as required	30 MAR
Completion of all work to decontaminate areas	30 MAY

AREA #3 AEC LICENSES

RQMT: All 3 USACMLCS radioactive material licenses must be closed out.

DISCUSSION: AEC may make this action conditional upon completion of work in areas #1 and #2 previously outlined. Nonetheless, a TWX to the AEC is definitely the first actions to be taken once it is releasable to the public that USACMLCS is closing. Current information places this as 6 Jan, which is on the weekend. Actions in this plan commence 8 Jan, the Monday following the end of the official "holiday period".

TIME-PHASING:

TWX AEC thru channels	8 JAN
Receive answer with detailed guidance	8 MAR
Close out records and transfer them to designated locations (completion of records action)	30 JUN

COST ESTIMATE FOR RELOCATION OF FACILITIES

1 NOV 72

RADIOLOGICAL FACILITIES, USACMLCS

Assuming NAVTRAU moves with us.

Hot cell is NOT to be required at new b

Office equipment and office space for training and safety elements are not included

1. Alpha Field training facility -(a)ship plates to new installation... incl below
   (b)450 concrete bases for plates will have to be re-made, since old ones would be unsat if moved(W/O.122.71.was.disapproved). $250
   (c)fence required, 7' chain link with 3 strand barbed wire o/h... $330
   (d)real estate rqmt square plot 150'x150'..... N/C
2. Br-82 pad
   (a)reconstruct basic pad.(site must be approved by AEC - in fact the -2 license must be resubmitted since it is tied to the physical site) (Cost Navy $25,000 in 1963). $5
   (b)procure 11F3A device $10
   (Cost to Navy $7K in 1963)
3. The other 2 AEC licenses would be submitted for amendment to change physical location, but should be approved if facilities are equal since they are not basically tied to a site..... N/C
4. BLDG 3182, duplicate at new installation, could contain the current Lab W, Lab T, Isotope lab with vault. The last 3 would be put in the portion now occupied by classroom V(the museum). New internal walls for separation of T and the preparation area(Isotope lab) and shielding for the vault, would need to be added as extra costs(also.hood).. $275,0 + labwork 25,0
5. Waste disposal yard adjacent to the building similar to 3182, will contain
   (a) as it now does BLDG 3180, an"outdoors" storage vault for sources used in 3182. This small building is very highly shielded and is in the center of the yard..... 3300 ?
   (b)real estate rqmt for yard 160'x160'..must.be.paved.with.6"concrete. 25,600 2
   (c)underground waste storage tank with pump, sump with valves, and 150 gal holding tank, main tank 1500 gal capacity (a capability superior to this is currently in place..... 35,00...
   (d)fencing rqmt: 7' chain link w/ 3 strand barbed wire o/h around entire yard..
6. TRANSPORTATION COSTS FOR INSTRUMENTS ON HAND(RADIAC INSTRUMENTS) AND SOURCES
   (a) T and Isotope lab area.....40 instruments avg wt 15# avg size when packed 1'x2'x9".....
   $5.29 100# (b) Bldg 3182 450 instruments avg wt 7# avg size when packed 6"x10"x5" .....
   (c) AN/UDM-1A 600# 3'x3'x3' packed $4,000
   (d) Neutron Irrad Facility 500# 3' x3' x3' before packed.....
   (e) Health Physics instruments 20 instruments avg wt 20# avg size when packed 2 cu ft 2x1x1.....
   (f) pack sources to ship 100 pkgs 1'x1'x9" avg size..... 17.16 avg
7. DECONTAMINATION or DISMANTLING and SHIPMENT FOR DISPOSAL of existing conta facilities 405,000 ←?
   (a)Hot cell
   (b)Bldg 3182
   (c)Bldg 3180
   (d)Waste disposal yard

   } Cost unknown, might go from $25,0 to as high as $75,000 (Commercial contract to meet AEC rqmts)

THIS ESTIMATE WAS [illegible]

6'+½ fence $5.50/ft

6" thick concrete $1 sq ft

TOTAL TOTAL $ ~

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BOOK | MESSAGE HANDLING INSTRUCTIONS

FROM:

TO:

1. Addresses be advised of intent dispose/transfer all radioactive material held under AEC licenses by this activity and close out the three AEC licenses, numbers BML-1-2861-1, BML-1-2861-2 and SNM-344 by COB 30 Jun 73.

2. Standard Army issue radioactive items will be disposed of or transferred IAW ref C.

3. Radioactive material auth by AEC licenses will be disposed of or transferred IAW ref A, B, D, E & F.

4. Decon & clean-up operations begin ASAP.

5. Request AEC be notified of above and of intent to reapply for ~~re~~ license as an Ordnance Training Facility at Aberdeen PG or EA. Also request approval to ship to and temporarily store at Edgewood materials held under our current AEC licenses. Applicable Edgewood Licenses are BML 19-12056-02 and SNM-9. They can absorb the overage and have agreed by FONECON to this arrangement.

6. Separate message is being sent requesting guidance for decontamination.

DISTR:

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RELEASER: TYPED NAME, TITLE, OFFICE SYMBOL AND PHONE	
RELEASER: SIGNATURE	SECURITY CLASSIFICATION: UNCLASSIFIED

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GPO : 1969—c48—16—80375-1 335-

MFR: General notification action for radiological purposes necessary for move to Maryland. Approval to store materials at Edgewood is necessary to begin decon in time to meet 1 Jun 73 certification time frame.

CHARLES J. WICKSTROM, MAJ, CmlC, C, Hlth Phy Div/15Jan73/kh/3937

COORD: Ofc of Log

Rad Com for EKB

NTU

LTC FOSTER

LTC RYAN

APPROVED: Asst Comdt

Comdt approved 16 JAN

17 JAN Mr. Adamczyk called – MAJ Stevens (CONARC) can't locate the BML 19- license, wanted to know names of contacts. I gave him:

Mr. Earl Wright (Mr. Bowman) 584-2710/3016
Mr. Phil M. Fiore 584-4711 BML 19-10206-01
Mr. Mike Parda 870-4757 (3570)
AEC BML 19-0294-19
LTC Richard Olsher 584-3526/3012 (Secy)
cdr Richard Olsher
Mr. Geyer (replaced Mr. Gossick) 301-973-7453 commercial
AEC Licensing Wash DC
Mr. Guinn AEC Atlanta Div of Compliance 526-45[illegible] commercial

D/5685 to Col [illegible]
B/5685 to Col [illegible] (Mr. Wright's office still)
INFO CPT [illegible]
FPS 870-[illegible]

Phone ⟷ 12 JAN (All these)

18 JAN Mr. Adamczyk called – wanted to know about the AEC publication

MEMO FOR RECORD 8 Jan 73

SUBJECT: Clean Up of Hot Cell and Rad Tng Areas

1. We just heard today that we may not be closing out in final fashion, as we have been told so far (complete disestablishment and phase out). Instead we may re-activate or transfer our training facilities to Aberdeen.

2. We need some AEC guidance before the Engineer estimates on decon limits, but a message would give away the intent to move.

C.J.WICKSTROM
MAJ, CmlC
C, HPDiv

ROUTING AND TRANSMITTAL SLIP		ACTION
1 TO: ASST COMDT	INITIALS: JS	CIRCULATE
	DATE: 11/2	COORDINATION
2 COMDT	INITIALS	FILE
	DATE	INFORMATION
3 C, HPD	INITIALS	NOTE AND RETURN
	DATE	PER CONVERSATION
4	INITIALS	SEE ME
	DATE	SIGNATURE

REMARKS

THIS SLIP ACCOMPANIED THE TASK CHECKLIST

INFO COPY

I want AEC on site survey completed by 1 June, earlier if possible. JS

Do NOT use this form as a RECORD of approvals, concurrences, disapprovals, clearances, and similar actions

FROM	DATE
CHARLES J. WICKSTROM MAJOR, CMLC C, HEALTH PHYSICS DIV	10 JAN PHONE 3937

OPTIONAL FORM 41
AUGUST 1967
GSA FPMR (41CFR) 100-11.206

* GPO : 1969 OF—352-829 5041-101

	TASK	DATE START	DATE COMPLETE	STAFF RESPONSIBILITY	USAS/TC ASSISTANCE REQUIRED NO	USAS/TC ASSISTANCE REQUIRED YES (AGENCY)
1	NOTIFY higher HQ RPO's and AEC of radiological close-out at Ft McCl & request transfer of 2 lic to APG	✓16JAN 11 JAN		HPD		x routine commo support
2	OBTAIN decontamination limit guidance	✓16JAN 11 JAN	25 JAN	HPD, USAEHA	X	
3	COMPLETE decon plan	12 JAN	10 FEB	HPD, OFC of LOG		x Post Engr
4	ISSUE phase-down sched for file #'s that use isotopes		20 JAN	HPD (Rad Comm)	x	
5	DECON hot cell, tng areas, waste yard	10 FEB	31 MAY	HPD, Ofc of Log		x Post Engr, Ctr Alfa Tm
6	OBTAIN 55 gal drums for rad waste(50)		15 FEB	HPD, Ofc of Log		x Pur & Con Off
7	BUILD boxes for shipping radl material(30)	15 FEB	5 MAR	HPD, Ofc of Log		x Post Engr
8	PACK all radl sources for disposal or transfer(approx803)	5 MAR	5 MAY	HPD	x	
9	OBTAIN disposition instructions from EA	5 MAY	5 JUN	HPD, Edgewood Ars		x routine commo support
10	DISPOSE of alpha plates(ship to ORNL)		10 JUN	HPD, Ofc of Log		x Transp
11	DISPOSE of Navy-owned sources ship to licensed Navy activity		15 JUN	HPD,NTU,Ofc of Log		x Transp
12	SHIP all other radl sources (total # is 803)	5 JUN	25 JUN	HPD, Ofc of Log		x Transp
13	FINALIZE ADP exposure records at FtMcCl		30 JUN	HPD, [illegible]		x MISO , MEDDAC
14	FINALIZE other rad records and transfer to records holding area		30 JUN	HPD; Admin		x Rec Mgmt Off
15	DISPOSE of radl waste generated by clean-up decon (includes requesting instr, disposal)	1 JUN	30 JUN	HPD, Ofc of Log		x Transp
16	CLEARANCE by on-site inspection/survey		1 JUN -30-JUN	HPD, USAEHA		x Engr, Safety Off
17	ESTABLISH HPD capability at APG		1 JUL	HPD, higher HQ, AEC new HP Officer needed	x	

10 JAN 73

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01 OF 02	150830Z	RR	RR		UUUU				

BOOK NO

MESSAGE HANDLING INSTRUCTIONS

FROM: CDR USASTC FT MCCLELLAN AL //ATSCM-HP// 1156Z 0288

TO: CDR USATHREE FT MCPHERSON GA //AJAGL-D-S-S// 162011Z

CDR CONARC //ATLOG-MS-EQ//

DA //DALO-MAE//

INFO: CDR EA EDGEWOOD MD //SMUEA-SA//

CDR EA EDGEWOOD MD //SMUEA-TC-MC//

CDR ABERDEEN PG MD //USAEHA-RH//

CDR ABERDEEN PG MD //STEAP-SA//

CDR ABERDEEN PG MD //AMXER-XM-HP//

CDR ABERDEEN PG MD //ATSOR-L//

UNCLAS

Subj: Disposal/Clean-up of Radioactive Material

A. AR 55-55

B. AR 700-52

C. AR 725-1

D. AR 755-15

E. Title 10 CFR 20 NOTAL

F. R. M. Graziano's Tarrif No 25 NOTAL

6 5 4 3 2 1 0

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C. J. WICKSTROM, MAJ, ATSCM-HP/3937/15Jan73

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DD FORM 1 JUL 68 173 REPLACES DD FORM 173, 1 NOV 63 AND DD FORM 173-1, 1 NOV 63, WHICH ARE OBSOLETE.

GUIDELINES FOR DECONTAMINATION OF FACILITIES AND EQUIPMENT

PRIOR TO RELEASE FOR UNRESTRICTED USE

OR TERMINATION OF LICENSES FOR BYPRODUCT, SOURCE, OR SPECIAL NUCLEAR MATERIAL

U. S. Atomic Energy Commission
Division of Materials Licensing
Washington, D. C. 20545

APRIL 22, 1970

The instructions in this guide in conjunction with Tables I and II specify the radioactivity and radiation exposure rate limits which should be used in accomplishing the decontamination and survey of sufaces of premises and equipment prior to abandonment or release for unrestricted use. The limits in Tables I and II do not apply to premises, equipment, or scrap containing induced radioactivity for which the radiological considerations pertinent to their use may be different. The release of such facilities or items from regulatory control will be considered on a case-by-case basis.

1. The licensee shall make a reasonable effort to eliminate residual contamination.

2. Radioactivity on equipment or surfaces shall not be covered by paint, plating, or other covering material unless contamination levels, as determined by a survey and documented, are below the limits specified in Tables I or II prior to applying the covering. A reasonable effort must be made to minimize the contamination prior to use of any covering.

3. The radioactivity on the interior surfaces of pipes, drain lines, or ductwork shall be determined by making measurements at all traps, and other appropriate access points, provided that contamination at these locations is likely to be representative of contamination on the interior of the pipes, drain lines, or ductwork. Surfaces of premises, equipment, or scrap which are likely to be contaminated but are of such size, construction, or location as to make the surface inaccessible for purposes of measurement shall be presumed to be contaminated in excess of the limits.

4. Upon request, the Commission may authorize a licensee to relinquish possession or control of premises, equipment, or scrap having surfaces contaminated with materials in excess of the limits specified. This may include, but would not be limited to, special circumstances such as razing of buildings, transfer of premises to another organization continuing work with radioactive materials, or conversion of facilities to a long-term storage or standby status. Such requests must:

   a. Provide detailed, specific information describing the premises, equipment or scrap, radioactive contaminants, and the nature, extent, and degree of residual surface contamination.

   b. Provide a detailed health and safety analysis which reflects that the residual amounts of materials on surface areas, together with other considerations such as prospective use of the premises, equipment or scrap, are unlikely to result in an unreasonable risk to the health and safety of the public.

5. Prior to release of premises for unrestricted use, the licensee shall make a comprehensive radiation survey which establishes that contamination is within the limits specified in Tables I or II. A copy of the survey report shall be filed with the Director, Division of Materials Licensing, USAEC, Washington, D. C. 20545, and also the Director of the Regional Division of Compliance Office having jurisdiction. The report should be filed at least 30 days prior to the planned date of abandonment. The survey report shall:

   a. Identify the premises.

   b. Show that reasonable effort has been made to eliminate residual contamination.

   c. Describe the scope of the survey and general procedures followed.

   d. State the findings of the survey in units specified in the instruction.

   Following review of the report, the AEC will consider visiting the facilities to confirm the survey.

SURFACE CONTAMINATION LEVELS[1]

ISOTOPE[2]	TABLE I TOTAL[3]	TABLE I REMOVABLE[3] [4]	TABLE II TOTAL[3]	TABLE II REMOVABLE[3] [4]
U-nat, U-235, U-238, Th-nat, Th-232, and associated decay products	10,000 dpm α/100 cm^2	1,000 dpm α/100 cm^2	Average[6] 5,000 dpm α/100 cm^2 Maximum 25,000 dpm α/100 cm^2	1,000 dpm α/100 cm^2
Other isotopes which decay by alpha emission or by spontaneous fission	1,000 dpm α/100 cm^2	100 dpm α/100 cm^2	Average[6] 500 dpm α/100 cm^2 Maximum 2,500 dpm α/100 cm^2	100 dpm α/100 cm^2
Beta-gamma emitters (isotopes with decay modes other than alpha emission or spontaneous fission)	0.4 mrad/hr at 1 cm[5]	1,000 dpm β-γ/100 cm^2	Average[6] 0.2 mrad/hr at 1 cm[5] Maximum 1.0 mrad/hr at 1 cm[5]	1,000 dpm β-γ/100 cm^2

(1) Either Table I or Table II may be used. For example, if all beta-gamma readings were less than 0.4 mrad/hr at 1 cm Table I could be used; but if the maximum reading were 0.8 mrad/hr, material could be released under Table II providing the average was less than 0.2 mrad/hr.

(2) Where surface contamination by both alpha and beta-gamma emitting isotopes exists, the limits established for alpha and beta-gamma emitting isotopes shall apply independently.

(3) As used in this table, dpm (disintegrations per minute) means the rate of emission by radioactive material as determined by correcting the counts per minute observed by an appropriate detector and count rate meter for background, efficiency, and geometric factors associated with the instrumentation.

(4) The amount of removable radioactive material per 100 cm^2 of surface area shall be determined by wiping that area, with dry filter or soft absorbent paper and with the application of moderate pressure, and assessing the amount of radioactive material on the wipe with an appropriate instrument of known efficiency. In determining removable contamination on objects of lesser surface area, the pertinent levels shall be reduced proportionally, and the entire surface shall be wiped.

(5) Measured through not more than 7 milligrams per square centimeter of total absorber.

[illegible] contaminant shall not be averaged over more than 10 square meters. For objects of lesser

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01 OF 02	150830Z	RK	RR		UUUU					

BOOK	MESSAGE HANDLING INSTRUCTIONS
NO	

MSG # 0289
162010Z Jan 73

1-5

FROM: CDR USASTC FT MCCLELLAN AL //ATSCM-HP//

TO: CDR ABERDEEN PG MD //USAEHA-RH//

INFO: DA //DALO-MAE//

CDR USATHREE FT MCPHERSON GA //AJAGL-D-S-S//

CDR USCONARC FT MONROE VA //ATLOG-MS-EQ//

CDR EA EDGEWOOD MD //SMUEA-TC-MC//

CDR EA EDGEWOOD MD //SMUEA-SA//

CDR ABERDEEN PG MD //STEAP-SA//

CDR ABERDEEN PG MD //AMXBR-XM-HP//

CDR ABERDEEN PG MD //ATSOR-L//

UNCLAS

Subj: Radiological Decontamination Limit Guidance

A. PIO release 11 Jan 73, Subj: Chemical Corps

B. FONECON between LTC Blackburn, your HQ, and MAJ Wickstrom, of USACMLCS, 9 Jan 73, subject as above.

1. USACMLCS is departing Ft McClellan per Ref A. Areas currently used for radiological training using isotopes will revert to post for use as unrestricted areas. These areas are expected to remain under Ft McClellan control indefinitely.

6 5 4 3 2 1 0

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DISTR:

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C. J. WICKSTROM, MAJ, ATSCM-HP/3937/15Jan73

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GPO : 1969—648—16—80373-1 333-39

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02 OF 02	150830Z									

BOOK | MESSAGE HANDLING INSTRUCTIONS

FROM:

TO:

2. In view of above and per Ref B, request (1) A staff visit from you in January to assist in determining decon operations required and (2) a specification of acceptable contamination limits by message and (3) a survey by you approx 1 Jun to verify that contamination does not exceed acceptable limits at time of transfer. Decon preliminary estimates run in excess of $10,000 for AR 700-64 contamination limits. Request we be permitted to use limits specified in 1970 AEC publication titled, "Guidelines for Decontamination of Facilities & Equipment Prior to Release For Use As Unrestricted Areas," which are substantially different from those in AR 700-64. Survey and wipe test capability exists at USACMLCS for all types of emitters known to be present.

3. Contact to assist in arranging visit is MAJ Charles J. Wickstrom, Health Physics Officer, USACMLCS, Autovon 865-3937.

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GPO 1969—648—16—80376-1 333-398

MFR: Engineers cannot estimate costs or plan decon actions until limits are known. The 1970 AEC Publication and AR 700-64 disagree widely. LTC Blackburn, AEHA, and MAJ McNulty, CONARC RPO, both agree that AEHA and not AEC is the certifying/clearing agency in this case, since the land will remain in Army control.

CHARLES J. WICKSTROM, MAJ, CmlC/C, Hlth Phy Div/15Jan73/kh/3937

COORD: Ofc of Log _____ LTC FOSTER _____

Rad Com for CRB LTC RYAN _____

APPROVED: Asst Comdt _____

Comdt _____

23 JAN MAJ Leslie called from 584-3526 AUTOVON.
He will talk to LTC Blackburn + plans now to come week of 4 Feb
He will call in send MSG late in week of 29 JAN.

MTG on CMLS PHASE-DOWN

26 JAN 73

(1) LTC Ryan goes to CONARC TU ...
Inform him of things ...

(2) HS tour — an afternoon
tour ideas & dates

(3) Roadblock at CONARC ...
they don't have any word from DA yet

Aberdeen wants to ... up on joint plan ... Draw up an TDA ... give to LTC Ryan ...

(4) LTC Hopper —
Sizable portion of materials and RADIAC instr & sources, should go to Huntsville (They are mainly fast)
LTC Ryan: This cannot be considered separately from the Aberdeen transfer — Aberdeen is now the focal point

Our Com DT's 1st priority

(5) TD already developed was [at Aberdeen by LTC Ryan & LTC Elsham & others ...] ... Sched X. FY74 data as approved by CONARC Manpower Survey were used to develop

(6) LTC Hopper: →
Plans for transfer to Huntsville have gone to the "boxing" stage.
LTC Ryan: CW → don't push up (sources & instruments) until "functional requirements" & "facilities" are determined & conflicting claims are settled.

ATSGN-HP

Phase-Down Schedule for Training Using Radioisotopes

// THRU DOI
DRI
C, Tech Gp

C, Health Phy Div

26 Jan 73
MAJ Wickstrom/kh/3937

TO C, Rad Com
Cdr, NAVTRAU

1. Reference meeting, subject as above, 19 January 1973. Present were MAJ Wickstrom and SSG Truffa of Health Physics Division, Mr. Bradley of Rad Com, LT Adler of NAVTRAU and CPT Music of Academic Records Division.

2. Concord was reached in the Phase-Down Timetable (Incl 1), which will be used for planning purposes. No curtailment of currently planned training was found necessary.

1 Incl
as

CHARLES J. WICKSTROM
MAJ, CmlC
Chief, Health Physics Division

CF:
Asst Comdt
C, Acad Rec Div
C, AOD

PHASE-DOWN TIMETABLE

Rad Tng Area / Sources	Last Used by Radl Committee Class	Radl Committee Date	Naval Training Unit Class	Naval Training Unit Date	Action After Last Use
1. Lab T (and Isotope Lab)	2 CLP	23 Feb	No further use		1 MAR - Begin preparing all removable items for shipment, incl. benches and hood. Use lab for storage of packed items prior to shipment.
2. Bromine Field	32 COAC 3 ATL	28 March 19 Apr	4 SDPO	19 Apr 18	23 APR - Begin decon and clean-up, pack 11F3A 23 MAY - Dump tanks
3. Alpha Field Alpha plates only			4 SDPO	24 Apr	25 APR - Begin alpha plate and concrete abutment removal(500).
Alpha plates plus Cesium source	3 ATL	19 Apr	5 EOD(RS)	5 Apr	
4. Lab W Cesium sources(2 or 3)	3 CSS 9 CBRE 4 COBC 3 ATL 7 CBRO	Late Mar Late Mar Early Apr 18 Apr 25 Apr	4 SDPO 4 RS(N)	18 Apr 24 Apr	27 APR - Begin preparing all removable equipment for shipment, incl. benches. Use lab for storage of packed items. Pack Cesium sources.
AN/UDM-6 plus Cesium	15 TE	19 Apr			
AN/UDM-6 plus Cesium plus Calcium bags			5 EOD(RS)	4 Apr	
MX-7338's only	6 COA	Early Apr			

THE ABOVE TIMETABLE WILL BE ALTERED IF CONARC DOES NOT APPROVE OUR REQUEST FOR CANCELLATION OF ALL CLASSES THAT WOULD CLOSE AFTER 1 MAY. FOR INSTANCE:

- 2 NCO(BASIC) would use Alpha field and Lab W up to near closing 15 MAY
- 4 CSS would require Cesium sources(Lab W) in mid-MAY
- 7 COA would require MX-7338's(Lab W) in mid-MAY
- 7 CER would require MX-7338's(Lab W) in mid-MAY(closing 25 MAY)

U S A CHEMICAL SCHOOL COURSES FY 73

2 JAN 73

NR	COURSE	LGTH CLS	PROG INP	ADJ PROG NP	ACT INP DATE
53C1	CML O BAS NRR		41		3
53C8	CML C FLD GR REF	2	25	13	11
53C20	CML O BASIC	5	226		123
53C22	CML O ADV	1	29		24
53C23	CML O ADV NRR		64		85
2E F5	CBR OFFICER	8	322		82
2E F43	SR CBAICO	5	73		25
7K F3	RADL SAFETY	2	49		14
2E F21 / 494 F3	TECH ESCORT	14	579	472	99
2EF31 / 494 F4	CBR ALPHA TM LDR	3	77		18
4E F3 49155020	EOD PH I	21	623	510	226
494 F1	CBR ENLISTED	12	514		191
030 / 54A10	CML OPR APP	7	340	254	135
494 / 54E20	CML STAFF SPEC	6	212	169	56
590 / 54020	CML EQUIP RPR	11	222	257	87
NCOES/ADV	ADV CML CAR	2	25		
49192020	CML LAB PROC	3		68	22
NCOES/ BSC	BSC CML CAR	2	24		7
2EF21 /	TECH ESCORT NAVY	5	70		9
4EF3 / 55020	EXPLO ORD NAVY	6	70		14
	CONARC TOTAL		3486	3327	1231
7K F3N	RADL SAFETY NAVY	3	100		18
ITC-2	INSTR TNG	3	145		7
STC-1	SUPV TNG	2	30		8
3RD ARMY	PRF 5 REF	2	80		
USAR-CL	CML USAR		51	51	31
PH-1	PUBLIC HEALTH	2	80		
A 7K 011	NAVY DIST PREP	5	125		27
A43I-0028	NAVY EOD RADSUR	6	70		12
	WAC TNG BN ITC	2		24	21
	TOTAL		681	705	124
	SCHOOL TOTAL		4167	4032	1355

JUL AUG SEP OCT NOV DEC JAN 74 FEB MAR APR MAY JUN

501 502 503 501 502 503 12 JUL 503 D 17 JUL CJUL

CANCELED - D

NOT CONDUCTED - X

PHASE-DOWN TIMETABLE

Rad Tng Area / Sources	Last Used by Radl Committee Class	Radl Committee Date	Naval Training Unit Class	Naval Training Unit Date	Action After Last Use
1. Lab T (and Isotope Lab)	2 CLP	23 Feb	No further use		1 MAR - Begin preparing all removable items for shipment, incl. benches and hood. Use lab for storage of packed items prior to shipment.
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3. Alpha Field					
Alpha plates only			4 SDPO	24 Apr	25 APR - Begin alpha plate and concrete abutment removal(500).
Alpha plates plus Cesium source	3 ATL	19 Apr	5 EOD(RS)	5 Apr	
4. Lab W					27 APR - Begin preparing all removable equipment for shipment, incl. benches. Use lab for storage of packed items. Pack Cesium sources.
Cesium sources(2 or 3)	3 CSS 9 CBRE 4 COBC 3 ATL 7 CBRO	Late Mar Late Mar Early Apr 18 Apr 25 Apr	4 SDPO 4 RS(N)	18 Apr 24 Apr	
AN/UDM-6 plus Cesium	15 TE	19 Apr			
AN/UDM-6 plus Cesium plus Calcium bags			5 EOD(RS)	4 Apr	
MX-7338's only	6 COA	Early Apr			

THE ABOVE TIMETABLE WILL BE ALTERED IF CONARC DOES NOT APPROVE OUR REQUEST FOR CANCELLATION OF ALL CLASSES THAT WOULD CLOSE AFTER 1 MAY. FOR INSTANCE:

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- 7 CER would require MX-7338's(Lab W) in mid-MAY(closing 25 MAY)

DEPARTMENT OF THE ARMY
U. S. ARMY ENVIRONMENTAL HYGIENE AGENCY
EDGEWOOD ARSENAL, MARYLAND 21010

USAEHA-RH

30 JAN 1973

SUBJECT: Liaison Visit USACMLCS, Ft McClellan, Alabama

Commander
USACMLCS
Fort McClellan, Alabama 36201

1. Reference TWX, R162010Z, January 1973, subject: Radiological Decontamination Limit Guidance. See inclosure 1.

2. The liaison visit has been scheduled for 5-7 February 1973. Coordination for the visit has been accomplished by FONECON between MAJ Charles Wickstrom, USACMLCS, and MAJ Gordon M. Lodde, this Agency.

3. Liaison Officers	Security Clearance
MAJ Gordon M. Lodde [redacted]	[redacted]
Mr. Lorenzo Wilborn [redacted]	[redacted]

4. Administrative and technical details will be conducted on or about 1 February 1973.

FOR THE COMMANDER:

JAMES F. JONES
Captain, MSC
Adjutant

1 Incl
as

CF:
DASG-HE
Cdr, Third USArmy, ATTN: Surgeon
Cdr, CONARC, ATTN: Surgeon
Cdr, MEDDAC, Ft McClellan
Cdr, USASTC

17 Jan 73
ACTION: USAEHA (1)
INFO: TROOP SPT GRP (1)
INFO: SAFETY OFC (1)
READING FILE (1)
FILE (1)

000393 UNCLASSIFIED ROUTINE

016 2053Z43

RTTUZYUW RUCLBWA0289 0162020-UUUU--RUEBBFA.

ZNR UUUUU

R 162010Z JAN 73

FM CDR USASTC FTMCCLELLAN AL //ATSCH-HP//

TO RUEOGDA/CDR ABERDEEN PG MD //USAEHA-RH//

INFO RUEADWD/DA WASH DC //DALO-MAE//

RUCLHTA/CDR USATHREE FTMCPHERSON GA //AJAGL-D-S-S//

RUEOPOA/CDR USCONARC FT MONROE VA //ATLOG-MS-EQ// HAJ STEVEN

RUEBBFA/CDR EA EDGEWOOD MD //SMUEA-TC-MC/SMUEA-SA//

RUEOGDA/CDR ABERDEEN PG MD //STEAP-SA/AMXBR-XM-HP/ATSOR-L//

BT

UNCLAS

SUBJ: RADIOLOGICAL DECONTAMINATION LIMIT GUIDANCE

REF A. PIO RELEASE 11 JAN 73, SUBJ: CHEMICAL CORPS

B. FONECON BETWEEN LTC BLACKBURN, YOUR HQ, AND MAJ WICKSTROM, OF USACMLCS, 9 JAN 73, SUBJECT AS ABOVE.

1. USACMLCS IS DEPARTING FT MCCLELLAN PER REF A. AREAS CURRENTLY USED FOR RADIOLOGICAL TRAINING USING ISOTOPES WILL REVERT TO POST FOR USE AS UNRESTRICTED AREAS. THESE AREAS ARE EXPECTED TO REMAIN UNDER FT MCCLELLAN CONTROL INDEFINITELY.

000393 UNCLASSIFIED ROUTINE

Page 1

000353

UNCLASSIFIED

ROUTINE

016 2053Z55

2. IN VIEW OF ABOVE AND PER REF B, REQUEST (1) A STAFF VISIT FROM YOU IN JANUARY TO ASSIST IN DETERMINING DECON OPERATIONS REQUIRED A

PAGE 2 RUCLBW A0289 UNCLAS

(2) A SPECIFICATION OF ACCEPTABLE CONTAMINATION LIMITS BY MESSAGE A

(3) A SURVEY BY YOU APPROX 1 JUN TO VERIFY THAT CONTAMINATION DOES NOT EXCEED ACCEPTABLE LIMITS AT TIME OF TRANSFER. DECON PRELIMINARY ESTIMATES RUN IN EXCESS OF $10,000 FOR AR 700-64 CONTAMINATION LIMI REUEST WE BE PERMITTED USE LIMITS SPECIFIED IN 1970 AEC PUBLICATION TITLED, "GUIDELINES FOR DECONTAMINATION OF FACILITIES & EQUIPMENT PRIOR TO RELEASE FOR USE AS UNRESTRICTED AREAS," WHICH AR SUBSTANTIALLY DIFFERENT FROM THOSE IN AR 700-64. SURVEY AND WIPE TEST CAPABILITY EXISTS AT USACMLCS FOR ALL TYPES OF EMITTERS KNOWN TO BE PRESENT.

3. CONTACT TO ASSIST IN ARRANGING VISIT IS MAJ CHARLES J. WICKSTROM, HEALTH PHYSICS OFFICER, USACMLCS, AUTOVON 865-3937

BT

3

#0289

NNNN

000353

UNCLASSIFIED

ATSCM-SY (31 Jan 73) 1st Ind
SUBJECT: Letter of Instruction: Range and Training Areas Clean-Up

US Army Chemical Center and School, Fort McClellan, Alabama 36201 7 Feb 73

TO: Commander, School Battalion, US Army Chemical Center and School, Fort McClellan, Alabama 36201

Your attention is invited to the basic communication for information and implementation.

FOR THE COMMANDANT:

CLIFTON R. JOHNSON
LTC, CmlC
Secretary

CF:
DISTRIBUTION B

AJMGT-P

31 JAN 1973

SUBJECT: Letter of Instruction: Range and Training Areas Clean-Up

Commandant
US Army Chemical Center and School
Fort McClellan, Alabama 36201

1. You will insure that all installation ranges and training areas used by the Chemical Center and School are policed and that all range buildings/equipment are returned to an acceptable state of repair.

2. The scope of this clean-up effort includes:

a. Thorough police of ranges and buildings.

b. Note and report any range facilities that are in need of repair or maintenance, i.e., downed telephone lines; broken bleachers; signs broken or torn down, etc.

c. Locate and mark munitions or duds. Do not, repeat, do not attempt to move or dispose of munitions or duds.

d. Report location and description of usable items located in training area thought to be excess.

3. All activities in the range/training areas will be coordinated with the range officer. Clean-up work will be included in the range firing notification published in the USAS/TC Bulletin.

4. Clean-up will be accomplished prior to 15 April 1973.

FOR THE COMMANDER:

LARRY D. LILLARD
Major, AGC
Adjutant General

DEPARTMENT OF THE ARMY
U. S. ARMY BALLISTIC RESEARCH LABORATORIES
ABERDEEN PROVING GROUND, MARYLAND 21005

AMXBR-XM-HP

5 February 1973

SUBJECT: Transfer of Radioactive Material

Commander
USASTC
ATTN: ATSCM-HP
Ft. McClellan, Alabama 35808

1. Reference Message, USASTC, Ft. McClellan, Alabama, 16 Jan 73, Subject: Disposal/Clean-up of Radioactive Material.

2. In order to comply with the provisions of paragraph 5 of subject message, the following information is required by this office:

a. Radioisotopes to be transferred.

b. Present amount of each radioisotope in curies.

c. Physical form of radioisotope to include if sealed or unsealed source.

d. Manufacturer of radioisotopes if known, to include make and model of sealed sources.

3. Request this information be provided with sufficient dispatch to allow time for any amendment that may be required to the licenses mentioned in paragraph 5 of message to be completed prior to transfer date.

Earl G. Wright

EARL G. WRIGHT
Chief, Health Physics Division

MAJ Charles J. Wickstrom
Health Physics Office
USACMLCS
Ft. McClellan, AL 36201

22 Feb 73

Mr. Earl Wright
Health Physics Division
US Army Ballistic Research Laboratories
Aberdeen Proving Ground, MD 21005

Dear Earl,

I have chosen to send you this inventory by informal letter to save time.

We appreciate your assistance in helping us to find a "parking place" for our sources.

I have annotated this inventory(Incl 1) where appropriate to indicate items not coming to Aberdeen with us. In this regard it is worthy of mention that there is some conjecture that we will be getting an AN/UDM-1A (135 Ci Cesium-137) to replace the one crossed out in green on the inventory. This particular item was of some value since we use it to calibrate all our health physics instruments monthly. On the other hand your calibration arrangement would probably be satisfactory for us, too. As I recall from a phone conversation, your license had sufficient curiage to cover this possibility. In any event, we would not bring it nor even procure it without your knowing and agreeing to it.

The 1 January date is appended to make clear that many of the shorter half-lived isotopes will have decayed considerably. These are recreated periodically but the curiages are very small and I do not think these will present a problem.

Thanks again,

CHARLES J. WICKSTROM
MAJOR, CMLC
C, HEALTH PHYSICS DIV

PS. The tritium we discussed is being disposed of but we are preparing to request use of H-3 in instruction.

1 JAN 7

INVENTORY OF RADIOACTIVE MATERIAL

1. The following radioactive materials are located in the Isotope Vault, Room 35, Building 3181.

a. Twenty (20) M6, Sr-Y90 beta sources for the Radiac Calibrator, TS 784A/PD. The M6 sources have an individual activity of 19.3 millicuries. The calibrators are under BML #16-5033-1, held by Lexington Army Depot. Serial numbers of the M6 sources are as follows:

A3664	A3930	A4043	A4167
A3698	A3931	A4049	A4174
A3896	A3952	A4050	A4180
A3900	A4023	A4122	A4181
A3911	A4035	A4150	A4255

b. One (1) AN/UDM-2 Radiac Calibrator set, Serial #0005. This set contains four (4) 25 millicuries sources and one (1) 20 microcurie source of Sr-Y90. The calibrator is under BML #16-5033-1, held by Lexington Army Depot. NO!

c. Sixty (60) Co60, gamma sources locally fabricated and mounted on copper planchets. Individual source activity is less than one microcurie. The sources are under BML #1-2861-1 held by USACMLCS.

d. Bulk liquid isotopes under BML #1-2861-1 held by USACMLCS. The isotopes, serial numbers and activity are as follows:

Isotope	Serial No.	Activity
Rb-86	570	10.02 mci (11 Oct 72)
Au-198	554	32.1 mci (12 Jul 72)
Ce-141	GN-59	10 mci (1 Feb 72)
Ag-110m	GN-45	10 mci (1 Feb 72)
Rb-86	466	5.1 mci (31 Jan 72)
Hg-203	GN-54	10 mci (21 Apr 72)
Ca-45	GN-32R	0.18 mci (Dec 71)
Co-60	Co-001	0.97 mci (Dec 71)
Ca-45	GN-61	4.99 mci (11 Apr 72)
Au-198	580	32.35 mci (2 Oct 72)
C5-137	14	5.02 mci (6 Oct 72)
Sc-46	582	25.16 mci (9 Oct 72)

e. Two (2) sources under BML #1-2861-1 with the isotopes, activity and serial numbers are as follows: (3 sources in 2 sources)

Isotope	Serial No.	Activity
Cs137	2455	25 microcuries
Cs137	1598	25 microcuries

Navy owns this and NAVELEX plans to reclaim it.

2. The following radioactive material is located in Laboratory W, Building 3182. One (1) Cs137, gamma source, for the AN/UDM-1A Radiac Calibrator. The source has an activity of 103 curies and serial number 86. The source is under BML #1-2861-1 held by USACMLCS.

3. The following radioactive materials are located in the Laboratory W storage vault, Building 3180.

a. Two (2) Co60 sources for the M3A1 source set. The sources have activities of 123 mci and 100 mci for serial numbers 748 and 756 respectively. These sources are under BML #19-1826-2 held by Edgewood Arsenal.

b. Sixty-eight (68) Pu239, alpha calibration sources purchased from Eberline. The sources are under SNM License #344 held by USACMLCS or SNM license #954 issued to Edgewood Arsenal. The serial numbers and activity are as follows: (UDM-6)

Serial No.	Activity (CPM)	Serial No.	Activity (CPM)	Serial No.	Activity (CPM)
P622	1.78×10^3	P1479	10,800	P2452	1.72×10^5
P1079	17,800	P1493	1.28×10^5	P2543	13,939
P1140	1140	P1494	1.43×10^5	P2557	14,010
P1177	1.5×10^3	P1497	1.52×10^4	P2605	1.64×10^5
P1207	1080	P1501	1.33×10^6	P2606	1.65×10^5
P1266	1750	P1504	1.3×10^6	P2629	1208
P1354	1.12×10^5	P1508	10,200	P2647	11,900
P1375	1.68×10^5	P1527	1700	P2650	1.4×10^4
P1411	1.16×10^6	P1821	960	P2671	1342
P1417	1.05×10^6	P1838	1.09×10^5	P2679	12,100
P1424	1.24×10^5	P1841	1000	P2692	1.2×10^5
P1425	1.21×10^5	P1881	13,900	P2734	967
P1438	1.2×10^6	P1891	1.32×10^6	P2740	1.1×10^3
P1440	1.58×10^6	P1911	1.09×10^5	P2749	12,300
P1446	12,900	P1918	1.36×10^4	P2762	1.44×10^5
P1478	14,200	P1939	1.2×10^6	P2766	12,132
P2784	1133	P2942	1.58×10^6	P3093	1.5×10^6
P2793	11,890	P2960	1.56×10^6	P3101	1.2×10^5
P2802	1040	P2966	1358	P3134	1.6×10^6
P2853	1243	P2970	1.27×10^5	P3160	1.5×10^6
P2892	15,279	P3016	1.44×10^6	P3169	1.46×10^5
P2897	1166	P3071	1.11×10^6	P3193	1.66×10^6
P2919	1.57×10^6	P3084	1.41×10^5		

4. The following radioactive materials are located either in the Laboratory W Vault, Building 3180 or are mounted in the Alpha Field.

Four hundred and fifty (450) U233 alpha plates under SNM 344 held by USACMLCS. The serial numbers and activity are as follows:

Serial No.	Activity (dpm)
A1 -A200 (inclusive)	2×10^5
A201-A300 (inclusive)	3.9×10^5
A301-A400 (inclusive)	9.5×10^5
A401-A450 (inclusive)	1.9×10^6

5. The following radioactive materials are a component part of the AN/PDR-27 Radiac Set. The MX7338 sources contain 5 millicuries of Krypton 85 and are stored in Laboratory W Vault, Building 3180. The sources are under BML #19-1826-2 held by Edgewood Arsenal. The last two in the list are stored in Building 1763 and are used by the Alpha Team.

One hundred five (105) MX7338:

K-3065	K-3080	K-3095	K-3110	K-3125	K-3140	K-3155
K-3066	K-3081	K-3096	K-3111	K-3126	K-3141	K-3156
K-3067	K-3082	K-3097	K-3112	K-3127	K-3142	K-3157
K-3068	K-3083	K-3098	K-3113	K-3128	K-3143	K-3158
K-3069	K-3084	K-3099	K-3114	K-3129	K-3144	K-3159
K-3070	K-3085	K-3100	K-3115	K-3130	K-3145	K-3160
K-3071	K-3086	K-3101	K-3116	K-3131	K-3146	K-3161
K-3072	K-3087	K-3102	K-3117	K-3132	K-3147	K-3162
K-3073	K-3088	K-3103	K-3118	K-3133	K-3148	K-3163
K-3074	K-3089	K-3104	K-3119	K-3134	K-3149	K-3164
K-3075	K-3090	K-3105	K-3120	K-3135	K-3150	K-3165
K-3076	K-3091	K-3106	K-3121	K-3136	K-3151	K-3166
K-3077	K-3092	K-3107	K-3122	K-3137	K-3152	K-3167
K-3078	K-3093	K-3108	K-3123	K-3138	K-3153	K-3168
K-3079	K-3094	K-3109	K-3124	K-3139	K-3154	K-3169

6. The following radioactive materials under BML #1-2861-1 held by the USACMLCS. They are located in Laboratory W Vault, Building 3180.

Isotope	Serial No.	Activity
Cs137	60251	93.1 millicuries
Cs137	60252	93.1 millicuries
Cs137	60253	186.2 millicuries
Cs137	60254	186.2 millicuries
Cs137	60255	465.4 millicuries
Cs137	60256	465.4 millicuries

7. The following are AN/PDR 39A Radiac Sets containing ~~5~~ 0.5 microcuries of Sr-Y90 each as integral parts of the sets. The AN/PDR 39A Radiac Sets are stored in Radiological Laboratory "W" Building 3182.

Nine (9) AN/PDR 39A Radiac Sets:

613	630	6582
623	659	LSD 49
629	673	LSD 319

8. ~~The following~~ radioactive material is held under BMI 1-2861-1 held by USACHLCS and is stored in the Neut Beam Irradiation Facility located in Radiological Laboratory Bldg. 3182.

Isotope	Serial No.	Activity
Am-241	MRC-AmBe-1279	2.52 Curies (6.5 ~~x~~ x 10^6 neutrons/sec

Navy owns this and plans to ship it to Norfolk.

INVENTORY OF LOW LEVEL SOURCES

1. The following radioactive materials contain extremely small quantities of various radioisotopes and are exempt from AEC Licensing and DA Authorization requirements.

Beta-gamma source sets from commercial manufacturers. The sources have an individual activity of less than one tenth of a microcurie. The sources are located in the Isotope Storage Vault, Room 35, Building 3181. The radioisotopes have the following serial numbers:

Isotope	Serial No.	Isotope	Serial No.
Tl204	5182	Co60	ICN.0736 uci
Bi210	5222	Co60	ICN.0738 uci
Ru106	5232	Co60	ICN.0754 uci
Bi210	5335	Sim P-32 (Natural U)	ICN.0517 uci
Co60	3249	Sim P-32 (Natural U)	ICN.0510 uci
Mn54	3236	Sim P-32 (Natural U)	ICN.0602 uci
Cs137	3266	C-14	ICN 5.37×10^4 dpm
Na22	3260	C-14	ICN 5.19×10^4 dpm
Co57	3279	C-14	ICN 4.81×10^4 dpm
Pa234	NENC		
C14	NENC		
Co60	NENC		
Tl204	NENC		
Bi210	NENC		

2. The following radioactive materials are exempt from AEC licensing and DA Authorization requirements. The radioisotopes are located in the Isotope Vault, Room 35, Building 3181. The calibration check sources are beta-gamma emitters. The isotopes, activity and serial numbers are as follows:

Isotope	Serial No.	Activity
C14	5158	0.57 microcurie
Co60	5192	.95 microcurie
Co60	P389	.0043 microcurie
Co60	P276	.0076 microcurie

3. One (1) U238, alpha calibration source, serial number P647, with an activity of 405 dps. The source is held under the general licensing provisions of para 40.22, 10CFR. The source is located in the Isotope Lab Vault, Room 35, Building 3181.

4. The following radioactive materials are low-level calibration sources in unlicensed quantities. The sources are located in the Isotope Lab Vault, Room 35, Building 3181.

Isotope	Serial No.	Activity
Na22	25-1314	less than 1 microcurie
Cs137	25-1313	less than 1 microcurie
Mn54	25-1312	less than 1 microcurie
Ba133	25-1311	less than 1 microcurie
Co60	25-1315	less than 1 microcurie
Co60	25-1215	less than 1 microcurie
Co60	25-1045	less than 1 microcurie
Cs137	25-1194 (4 ea)	less than 1 microcurie
SIM-I131	25-1041	less than 1 microcurie
Cs137	25-1213	less than 1 microcurie
Cs137	25-1043	less than 1 microcurie

5. The following are either articles of equipment or copper planchets containing Ca 45 sealed in plastic bags. Each bag contains less than one microcurie of Ca 45 and is stored in the instrument storage room, Building 3182. The Ca45 is licensed under BML #1-2861-1 held by USACMLCS. SEE NOTE.

Nine (9) Bags:

1	D	J
4	E	M
8	G	S

6. The following are either articles of equipment or copper planchets containing Ag 110m sealed in plastic bags. Each bag contains less than one microcurie of Ag 110m and is stored in the instrument storage room, Building 3182. The Ag110m is licensed under BML #1-2861-1 held by USACMLCS. SEE NOTE.

Fourteen (14) Bags:

2	B	I	Q	A2
5	C	K	R	B2
7	H	N	T	

7. The following low-level sources are liquid scintillation standards and are covered under BML #01-02861-01 issued to USACMLCS. The sources are stored in the Isotope Vault, Room 35, Building 3181.

Isotope	Activity
C-14	4.17×10^5 dpm
C-14	4.99×10^5 dpm
C-14	4.55×10^4 dpm

8. A 40 microcurie Cs-137 internal calibration source as an integral part of the Beckman Beta Mate liquid scintillation counter. The source is licensed under a general license held by Beckman Corporation. It is located in the Isotope Laboratory, Room 35, Building 3181.

NOTE: The following eleven (11) bags contain no radioactive material: 3, 6, A, F, L, O, P, A1, A3, B1 and B3.

...RUCLBWA.

P 061450Z FEB 73

ACTION Cml Sch
INFO DPT/SEC
INFO
INFO
INFO

FM DA ... DC //DAPE-PDT//

TO ...DA/CDRCONARC FT MONROE, VA //ATIT//

INFO RUCONGA/CDRUSAMC WASH DC

...ELMA/CDRUSACMLCS FT MCCLELLAN, AL

RUEDSGA/CDRUSAOC&S ASBERDEEN PVG GND, MD

RUCLCGA/CDRUSAMMCS REDSTONE ARSENAL, AL

RUEDSGA/COMDT USACHS FT HAMILTON, NY

FT

UNCLAS

SUBJ: RELOCATION OF TNG ACTIVITIES

A. DA STUDY, IMPLEMENTATION PLAN - CONSOLIDATION OF CHEMICAL CORPS FUNCTIONS, DTD 15 JAN 73.

B. DA GUIDANCE, IMPLEMENTATION, CONUS REORGANIZATION 1973, DTD 16 JAN 73.

1. THE FOL RELOCATION ACTIONS HAVE BEEN APPROVED FOR IMPLEMENTATION

A. THE CHAPLAIN SCHOOL, FT HAMILTON, NY AND CHAPLAIN BOARD, FT MEADE, MD TO FT WADSWORTH, NY BY END 1ST QTR FY 74.

B. DISCONTINUANCE OF THE USACMLCS WITH ELEMENTS MOVING TO

/- Comdt /- Secy /- Cdr, Sch Bn
/- Asst Comdt /- C, Cdmnt /- Cir + File
/- DoI /- MPBO
/- LTC Ryan (Ord) /- ODRLP /- ARI

PRIORITY

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ABERDEEN PVG GND, MD [illegible] AS FINAL. CL BY END FY 73.

[illegible] UNCLAS

[illegible] ACTIONS RELATING TO THIS SHOULD BE INITIATED ASAP TO INSURE [illegible] MET DATES INDICATED ABV.

[illegible] INSURE NON-DEGRADATION OF THE ARMY'S CBR CAPABILITY, THE FOL [illegible] PRESENTLY TAUGHT AT USACMLCS WB DISPOSED OF AS FOL:

A. TRANSFER TO USAOCBS:

(1) 2E-F5, CBR OFF

(2) 7K-F3, RAD SAFE

(3) 2E-F31/494-F3 TECH ESCORT (ARMY)

(4) 4-CL-C43, CML NCOES BASIC

(5) 4-CL-C42, CML NCOES ADV

(6) 494-F1 CBR ENL

(7) 030-54A1D CML OPNS APPR

(8) 491-92D2D, CML LAB PROCED

(9) 494-54E2D, CML STAFF SPEC

(10) 690-54D2D, CML EQUIP RPR

B. TRANSFER TO USAMMCS:

(1) 2E-F43, SR CML AIC OFF

(2) 2E-F21/494-F3, TECH ESCORT

(3) 4E-F3/431-55D2D EOD

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C. [illegible] 5-3-C1, CML OFF BASIC (NONRES) AND 5-3-C2C, CML

[illegible] R [illegible]ADH07054 UNCLAS

[illegible] BASIC AND ESTB APPROP CML OFF MOS CRS AT USAOCS.

D. ELIMINATE 5-3-C22, CML OFF ADV AND 5-3-C23, CML OFF ADV (NONRES) AND MODIFY PRESENT ORD OFF ADV CRS POI TO INCLUDE EXPANDED CONCEPT OF CBR INSTRUCTION.

4. EXTREME CAUTION SHOULD BE EXERCISED TO ASSURE THAT ENLISTMENT/REENLISTMENT CONTRACTS ARE NOT BROKEN. ALL CHANGES TO CRS LOCATIONS AND START DATES RQR ADVANCE COORD WITH MILPERCEN (DAPC) TO MINIMIZE CHANGES TO ORDERS FOR REPORTING STUDENTS.

5. BACKUP DATA PREVIOUSLY FURNISHED INDICATES NO RQRMENT FOR CONST/MODIFICATION OF FACILITIES THAT IS BEYOND THE INSTALLATION CDR'S APPROVAL AUTH. ALL FUNDING IS TO BE ACCOMP IAW ANNEX A, APP IV OF DA LTR (DACS-MR) SUBJ: GUIDANCE FOR REORGANIZATION PLANNING, DTD 23 AUG 72.

6. REQ FOR DA MOVEMENT DIRECTIVE UP AR 55-113 IS REQUIRED TO RELOCATE CHAPLAIN'S SCHOOL.

7. REQ DAPE-PDT BE APPRISED OF UR ON-GOING ACTION RELATIVE TO THE DISPLACEMENT OF ALL COURSES. AS A MIN QTRLY STATUS RPT IS RQRD EFF 31 MAR 73. RPT TO ARR DAPE-PDT(RCS CSOCS-184) NLT 10 DAYS AFTER END EA QTR & CONT THRU COMPLETION OF ACTIONS.

CT = 7854 [illegible] 1968

PRIORITY

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* U N C L A S S I F I E D *
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DEPARTMENT OF THE ARMY
U S ARMY CHEMICAL CENTER AND SCHOOL
FORT MC CLELLAN, ALABAMA 36201

ATSCM-HP 9 February 1973

MEMORANDUM FOR RECORD

SUBJECT: Radiological Decontamination Guidance

1. In response to our message R162010Z Jan 73, subject: Radiological Decontamination Limit Guidance, US Army Environmental Hygiene Agency, an element of the Office of The Surgeon General, sent a team of two consisting of MAJ Gordon Lodde and Mr. Lorenzo Wilborn (GS-11) to Ft McClellan 4-7 February 1973. The exit briefing was held in the Ft McClellan Deputy Commander's Office, 0930 hours, 7 February, with Post Engineer and Center Safety representatives present. This team came from the same office that will ultimately release USACMLCS radiologically for DA. The team conducted radiological surveys using instruments they brought. The annotated map the team used for exit briefing is inclosed (Incl 1). A USAEHA report on this visit, summarizing the advice given, will be sent to us in about a week.

2. The Atlanta Atomic Energy Commission Division of Compliance representative, Mr. Paul Guinn (GS-13), who inspected USACMLCS 29-31 January (exit briefing 1100 hours, 31 January in Commandant's office--no deficiencies), also desires to make an on-site inspection after the USAEHA survey and clearance which is currently scheduled for 1 June.

3. Both the above visiting parties were well qualified to furnish advice on radiological decontamination. Their advice is summarized in Inclosure 2. This advice and command guidance received will form the basis for a radiological decontamination plan, to be issued shortly. This plan will be implemented by a blanket open-ended work request to Post Engineers to be submitted upon approval of the plan.

4. No difficulties in meeting the 30 June departure timetable are currently foreseen. It is envisioned that post will be the highest level at which support will be required (other than possible survey assistance). However, several unknowns will remain which could alter adherence to the developed plan. For example, areas in which sources

HPDiv Copy

are currently stored may be sources of last-minute decontamination problems due to survey difficulties with sources present; USAEHA has several environment samples to be evaluated, and any hot soil or water samples could require more extensive efforts; selected decontamination methods or resources could prove insufficient, or command guidance might direct more complete methods, resulting in alteration of the plan.

5. Contact concerning these visits and the radiological decontamination plan is MAJ Charles J. Wickstrom, Health Physics Officer, USACMLCS, Extension 3937.

CHARLES J. WICKSTROM
Major, CmlC
C, Health Physics Division

2 Incl
as

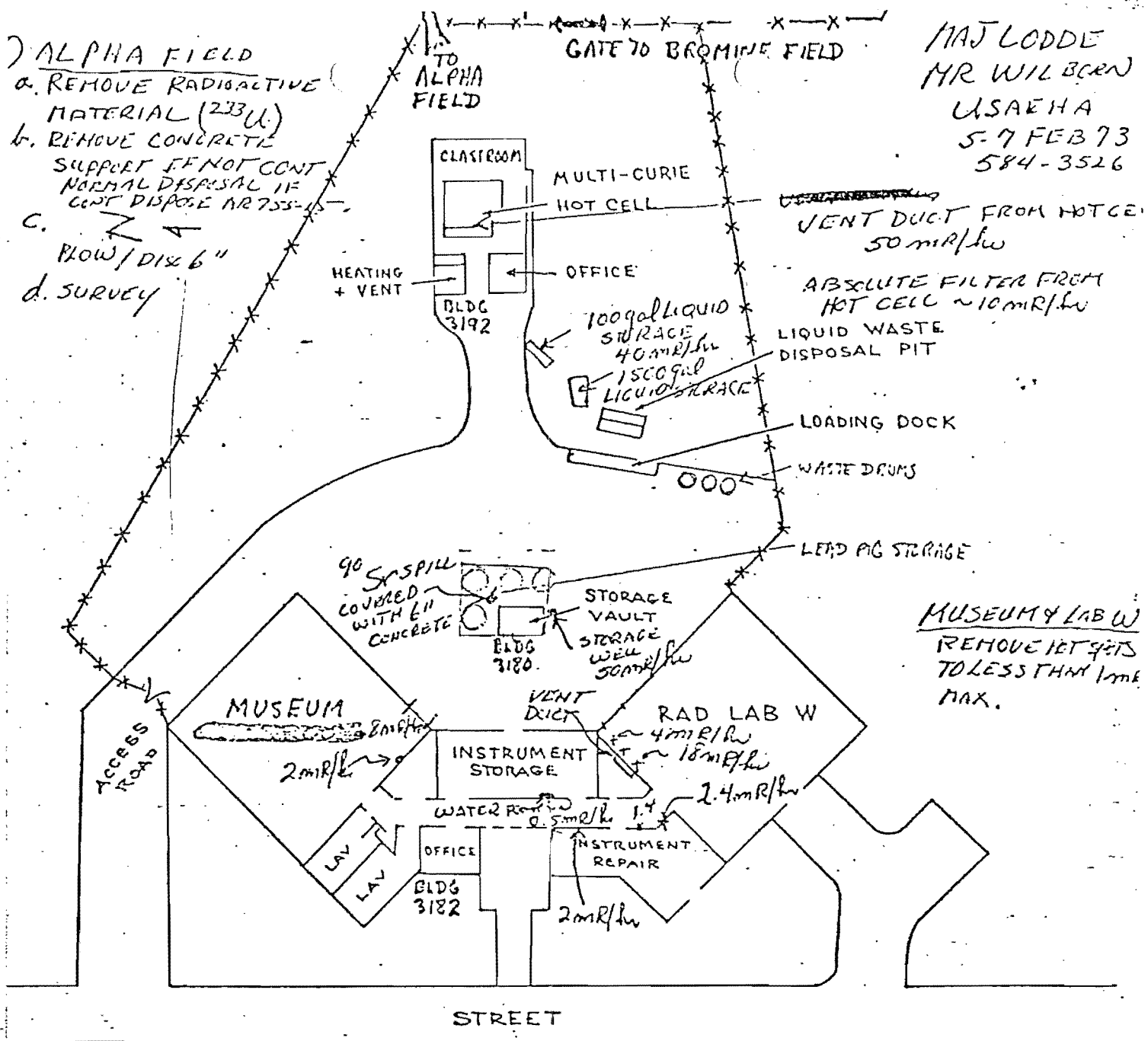
CF:
Cdr, USASTC
Dep Cdr, USASTC
~~Safety Dir, USASTC~~
AJMFE:
Dir
C, Work Coord Br
C, Bldg & Grd
Cdr, CoD 46th Engr Bn(Const)
AJMGL:
Dir
C, Trans Div
C, Procurement Div
~~AJMGT (Range Off)~~
USACMLCS:
Comdt
Asst Comdt
Alt Hlth Phys Off
DOI
Dir, Ofc of Log
OAR
NTU
M/PBO
Cdr, Sch Bn
AEC (Mr. Paul Guinn) (info only)
AEHA (MAJ Lodde) (info only)

AJMGP
Dir
C, Pers Svc Div
Safety Mgr

Distribution
(note additions)

NAICO → AJMGT
Dir
C, Trg Div
Range Off

Dir, Tech Gp
C, Rad Comm



) IRON MT SEVERAL
HOT SPOTS MAX 2.5 mR/hr
REMOVE ALL ABOVE 1 mR/hr

) OLD RADIUM STORAGE VAULT T-212½
OK LESS 0.2 mR/hr

USE NBS HANDBOOK 48 AND 92 AS GUIDES FOR DECON.

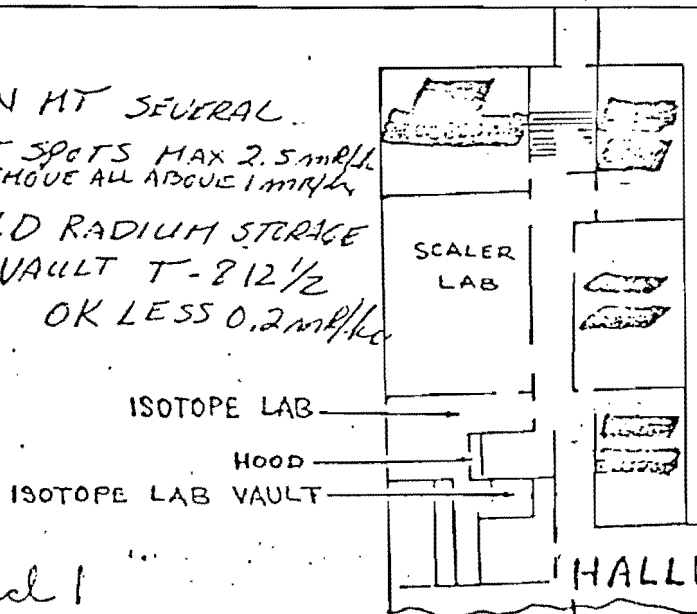
SCHEMATIC

RADIOLOGICAL FACILITIES

U.S. ARMY CHEMICAL CENTER AND SCHOOL

USAEC GUIDELINE

AVE 0.2 mR/hr AT 1 CM
MAX 1.0 mR/hr AT 1 CM
1,000 dpm B-γ/100 cm²



Incl 1

SUMMARY OF ADVICE

Area of Concern	USAEHA (MAJ Lodde, Team Chief)	USAEC (Mr. Guinn, Inspector)
1. Acceptable contamination limits.	Use AEC "Guidelines" publication dated 22 Apr 70.	Recommends use of Apr 70 AEC "Guidelines".
2. Bldg 3192 (Hot Cell Facility).	Seal off hot cell portion of building, allow routine access for maintenance by Post Engrs. Post RPO to control access. Alternative of decon by removal was considered and rejected.	Seal off hot cell portion of building. (Do not attempt removal of contamination down to acceptable limits.)
3. Bldg 3182 (Rad Lab W and Museum).	Reduce contamination to within limits by physical removal (many small spots were located throughout the building and marked). Tile removal, cement chipping, metal etching and cutting may be required.	Reduce contamination to within limits.
4. Bldg 3180 (Rad Storage Vault).	Decontaminate to within limits. Level building if necessary. Internal storage well may be filled with concrete. Surface removal operations such as sandblasting are probably required.	Decontaminate to within limits. Level building if necessary.
5. Raised concrete pad around Bldg 3180 (with plaque).	Break up and remove entirely. Dispose of as radiological waste. Reduce to level of surrounding concrete surface and further if necessary to reduce contamination to within limits. Remove plaque permanently.	Break up and remove entirely.
6. Storage Well near Bldg 3180 (with lead cover).	Cut off steel cylinder level with surface and fill with concrete. Acceptable alternative: remove steel cylinder from concrete entirely and fill hole with concrete. Finish flush with surrounding concrete surface.	Cut off steel cylinder level with surface and fill with concrete. Dispose of cover. Do not attempt removal of contamination.
7. Drain System Bldg 3192 (Hot Liquid System).	Install temporary drain plugs in the five drains in Bldg 3192. Leave tanks underground. Erect warning signs. Acquaint Post Engrs and Post RPO with any remaining maintenance on underground system. Provide new means of removal of accumulating water in Bldg.	Leave contaminated underground tanks in place. Seal drains in Bldg 3192.

Area of Concern	USAEHA (MAJ Lodde, Team Chief)	USAEC (Mr. Guinn, Inspector)
8. Fenced area behind Bldg 3182 (Waste Storage Yard).	Dispose of currently stored waste as usual, including lead items. Remove any soil contaminated to above limits; remove concrete if necessary to reduce to within limits. (No work such as that in last sentence is currently known to be necessary but many readings well above background were recorded during the survey in these areas.)	Decontaminate to within limits.
9. Bldg 3181 (Main School Bldg).	Decontaminate to within limits (no points of long lived contamination are currently known to be present). Dispose of isotope lab hood filter as radioactive waste if contaminated. Dispose of sources not economically transportable to new location.	Decontaminate to within limits as required.
10. Bromine Field.	Allow to decay to within limits. (No points of long lived contamination are currently known to be present.) Dump liquid to sanitary sewerage one month after last exercise as usual. Plumbing can remain and the facility will make a good vehicle wash rack.	Allow to decay to within limits.
11. Alpha Field.	Remove all alpha plates. Concrete pedestals need not be automatically considered contaminated. Plow soil to 6" depth.	Remove plates.
12. Rideout Field.	Obtain documentation statement from MAJ Anderson (no documentation currently exists on the close-out). Add to this the results of 7 Feb AEHA survey (no hot spots found above limits).	Obtain documentation statement from MAJ Anderson. Remote site - not physically checked during inspection.
13. Iron Mountain (Rattlesnake Gulch).	Decontaminate to within limits. Try soil removal technique. AEHA survey 6 Feb reveals 3 hot spots, one 2.5 mr/hr. Four-wheel drive vehicle required for access to site (up behind BIO field exercise area, near Summerall Gate).	Remote site - not checked during inspection.
14. Former Radium Vault T-812½	No decontamination required. Current readings (6 Feb survey) are above background but within limits.	Remote site - not checked during inspection.

ATSCM-HP 12 FEB 1973

SUBJECT: Rideout Field Documentation

MAJ Raymond L. Anderson
Staff and Faculty
Sergeants Major Academy
Fort Bliss, Texas 79916

1. Inspections on 31 January 1973 by Mr. Guinn of AEC and on 7 February 1973 by MAJ Lodde of USAEHA have recommended that you be asked to provide some documentation of the Rideout Field close-out. None currently exists. The Rideout Field situation stands in sharp contrast to the Rattlesnake Gulch incident which you fully documented.

2. Points to be worked in somewhere would be:

a. What areas and actuators were surveyed and what the survey readings were.

b. What contamination was found and what action was taken.

c. What action was taken to close burial site.

d. What coordination was made prior to turn-over of area to Post Engineers.

3. Your help will be appreciated. This action will assist in the phase-out of the US Army Chemical Center and School at Fort McClellan.

FOR THE COMMANDANT:

CLIFTON R. JOHNSON
LTC, CmlC
Secretary

file 9

DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is The Adjutant General's Office.

REFERENCE OR OFFICE SYMBOL	SUBJECT
ATSCM-H	Isotope Committee Secretary's Report

TO SEE DISTRIBUTION FROM C, Health Physics Div DATE 10 Apr 72 CMT 1

jm/4724

1. The quarterly meeting of the Isotope Committee will not be held until June. In the absence of a meeting, the following items are provided for committee members information.

2. The removal of Cobalt-60 sources from Rideout Field was complete on 21 March 1972. Two hundred sources were shipped for disposal to Morehead, Kentucky on 17 March 1972. The remaining eight hundred twenty will be shipped by the end of FY 72.

3. Digging up of the old radioactive material burial grounds at Rideout Field was completed on 28 March and the removal of all radioactive warning signs was completed on 4 April. Rideout Field will now be turned over to the Post Engineers.

4. The following individuals have been granted "interim" radiation safety personnel clearances.

Major Gunther Newbert, Radl Div, Cat I
CPT Jimmy Hughes, Radl Div, Cat I
SFC Kenneth Scales, Radl Div, Cat II

5. Radiological Division: Revised Safety SOP has been staffed to all members of this Isotope Committee. Comments have been resolved and the SOP approved by the Isotope Committee chairman. It is now at the duplication facility for publication.

6. The Radiological Division has received a new Beckman "Beta Mate" scintillation counter. It will be used in Lab T. The Beta Mate is used to detect and count low energy beta radiation such as found in tritium. A safety SOP for its use will be prepared for the Isotope Committee's approval once procedures are developed for preparing the liquid samples.

7. SFC George Pryor, Radiological Operations NCO in the Health Physics Division since 9 January 1967 has received PCS orders for Korea. He will depart on 25 April. SSG Barthel Truffa, a recent returnee from Korea, will fill SFC Pryor's position.

Raymond L. Anderson

RAYMOND L. ANDERSON
MAJOR, CmlC
Chief, Health Physics Division

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2-47

PRIORITY

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* U N C L A S S I F I E D *
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PT 00821 047 515740

ACTION Cm / Sch
INFO
INFO
INFO
INFO

PJTUZYUW RUEOPCA3223 0462300-UUUU--RUCLBWA.

ZNR UUUUU

P 152254Z FEB 73

FM CDRCONARC FT MONROE VA//ATIT-PPS//

TO RUEOPIA/CDRUSAONE FT MEADE MD

RUCLHTA/CDRUSATHREE FT MCPHERSON GA

RUEOEGD4/CDURSAOCES APG MD//ATSOR-IT//

RUCLBWA/CDRUSACMLCS FT MCCLELLAN AL

RUCLCDD/CDRUSAMMCS REDSTONE ARSENAL AL

RUCLBWA/CDRUSASTC FT MCCLELLAN AL

RUEOTUA/COMDT USAES FT BELVOIR VA

RUEORDDA/COMDT USAOMS FT LEE VA

[redacted]

BT

UNCLAS SECT I OF II

DESELM: (O.C) (USACHLCS, DISESTABLISHMENT)

SUBJ: DISESTABLISHMENT OF THE USACHLCS (S-E MAR 73)

A. MSG, DAPE-PDT, DA, 061450Z FEB 73 (U), SUBJ: RELOCATION OF TNG ACTIVITIES (NOTAL).

B. MSG, ATIT-PPS, HQ CONARC, 061635Z FEB 73 (FOUO), SUBJ AS ABV (NOTAL).

1 - Comdt 1 - MPBO
1 - Cmd Comdt 1 - Ci + Tr
1 - DOI 1 - Tech Gp
1 - Secy 1 - Cmd. STF
1 - Cd, Sch Bn 1 - M + M. G
1 - LTC Ryan 1 - TIE
1 - C, C Admin 1 - Ofc Sy
1 - ODDLP 1 - HP
1 - Library

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C. LTR, AJMOT-P, USASTC AND FT MCCLELLAN, 25 NOV 72, SUBJ: IN-

STALLATION AND ACTIVITY CONSOLIDATION, REALIGNMENT, REDUCTIONS AND CLOSURES (DISESTABLISHMENT OF THE USACMLCS), W/1ST IND, AJAGT-F-F, HQ THIRD US ARMY, 27 NOV 72 (NOTAL).

D. MSG, ATIT-PR, HQ CONARC, 082326Z FEB 73 (U), SUBJ: PROJECTED FY 74 SERVICE SCHOOL END STRENGTH AUTHORIZATIONS (USAOCS) (NOTAL.

E. MSG, ATIT-PR, HQ CONARD, 082328Z FEB 73 (U), SUBJ: PROJECTED FY 74 SERVICE SCHOOL END STRENGTH AUTHORIZATIONS (USAMMCS) (NOTAL).

F. STUDY- CONSOLIDATION OF CHEMICAL CORPS FUNCTIONS 1972 PREPARED BY THE CHEMICAL STUDY GROUP, 16 OCT-15 DEC 72, DATED 15 DEC 72, DA, WASHINGTON, D.C. (NOTAL).

G. MSG, DALO-AMO, DA, 232113Z JAN 73 (FOUO), SUBJ: STORAGE OF CHEMICAL AGENTS AND MUNITIONS (NOTAL).

1. IN REF A, DA APPROVED THE TRANSFER OF CERTAIN CHEMICAL COURSES AND THE DISESTABLISHMENT OF THE USACMLCS BY END OF FY 73.

2. THE COMDT USACMLCS IS TASKED TO DISESTABLISH THE USACMLCS AND TRANSFER COURSES IN ACCORDANCE WITH THE GUIDANCE FURNISHED BELOW. REMAINING ADDRESSEES WILL PROVIDE THE ASSISTANCE REQUIRED TO ACCOMPLISH THIS ACTION.

A. FOR THE PURPOSE OF THIS ACTION, ALL REFERENCES TO TRANSFER

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OF A COURSE" INCLUDE TDA PROPERTY, TRAINING AIDS AND DEVICES

PECULIAR TO CHEMICAL AND EOD TRAINING, TRAINING LITERATURE, LESSON PLANS AND ANY OTHER INSTRUCTIONAL MATERIAL ESSENTIAL TO THE CONDUCT OF THE COURSE.

B. THE USACMLCS WILL BE DISESTABLISHED AND COURSES TRANSFERRED NLT 24 JUN 73 IN ACCORDANCE WITH C(1) AND (2) BELOW.

C. MISSION RESPONSIBILITY FOR COURSES PRESENTLY TAUGHT AT THE USACMLCS ARE REASSIGNED AS FOLLOWS:

(1) US ARMY ORDNANCE CENTER AND SCHOOL, ABERDEEN PROVING GROUND, MD.

(A) FOLLOWING COURSES ARE TRANSFERRED TO THE USAOCCS:

COURSE NO.	COURSE TITLE	PROJECTED AVG WEEKLY STU LOAD FY 74 LOAD
4-C1-4C	NCOES BASIC	4.6
4-CL-42	NCOES ADVANCED	6.8
030-594 10	CML OPERATIONS APPRENTICE	32.2
690-54D20	CML EQUIPMENT REPAIR	30.5
434-54E20	CML STAFF SPECIALIST	58.0
431-82D20	CML LABORATORY PROCEDURES	13.4
2E-F5	CBR OFFICER	33.6

2E-F31/494-F4 CBR ALPHA TEAM LEADER OFF .5

EM .7

494-F1 CBR ENLISTED 44.4

7X-F3 RADIOLOGICAL SAFETY 7.4

(B) THE 5-3-C1, CML OFFICER BASIC (NONRESIDENT) AND 5-3-C2C, CML OFFICER BASIC WILL BE ELIMINATED AND AN APPROPRIATE CML OFFICER MOS COURSE WILL BE ESTABLISHED AT THE USAOC&S (SEE PARA 5 BELOW).

(C) THE 5-3-C22, CML OFFICER ADVANCED AND 5-3-C23, CML OFFICER ADVANCED (NONRESIDENT) WILL BE ELIMINATED AND THE PRESENT PROGRAM OF INSTRUCTION FOR THE ORDNANCE OFFICER ADVANCED COURSE WILL BE MODIFIED TO INCLUDE EXPANDED SCOPE OF CBR INSTRUCTION (SEE PARA 5 BELOW).

(2) FOLLOWING COURSES ARE TRANSFERRED TO THE US ARMY MISSILE AND MUNITIONS SCHOOL, REDSTONE ARSENAL, AL.

COURSE NO.	COURSE TITLE		PROJECTED FY 74 LOAD
9E-F2/431-55D22	EXPLOSIVE ORDNANCE DISPOSAL	(ARMY) OFF	2.7
		EM	20.4
		(NAVY) OFF	.7

			EM	2.3
2E-F21/494-F3	TECHNICAL ESCORT	(ARMY)	OFF	4.6

		EM	16.0
	(NAVY)	OFF	0
		EM	2.8
2E-F43	SR CM1-SIO ACCIDENT/INCIDENT CONTROL OFFICER		.4

D. SCHEDULE OF CLASSES. A REVISED SCHEDULE OF CLASSES FOR FY 73, AS DISCUSSED AT CONFERENCE (REF B) WILL BE PROVIDED ADDRESSEES BY SEPARATE CORRESPONDENCE.

E. RECOGNIZED MANPOWER REQUIREMENTS. RECOGNIZED MANPOWER REQUIREMENTS TO SUPPORT THE ADDITIONAL MISSION REFERRED TO IN C(1) AND (2) ABOVE, COMPUTED AT THE 7FEB 73 CONFERENCE AT THIS HQ (OPFD), ARE AS SHOWN BELOW. THESE REQUIREMENTS WERE INCLUDED IN THE RECOGNIZED REQUIREMENTS REFLECTED IN ACCEPTABLE FIGURES PROVIDED IN REF D AND E.

	USASOCS	USAMMCS
OFFICERS	92	12
WO	1	--
ENLISTED	144	20

CIVILIAN	72	1
TOTAL	309	33

F. PERSONNEL.

(1) GUIDANCE FOR REASSIGNMENT AND REQUISITIONING OF MILITARY PERSONNEL IS CONTAINED IN REF B.

(2) THOSE CIVILIAN PERSONNEL SPACES REQUIRED TO SUPPORT COURSES BEING TRANSFERRED TO USAOCBS AND USAMMCS, IDENTIFIED IN USACMLCS TOA M1010 AS SUPPORTING IDENTICAL FUNCTIONS NOW AT USACMLCS, WILL BE CONSIDERED AS A TRANSFER OF FUNCTION. ALL OTHER CIVILIAN PERSONNEL SPACES MADE EXCESS BY THIS ACTION WILL BE ABOLISHED AT FORT MCCLELLAN THE CONDT USACMLCS, IN COORDINATION WITH THE CPO AT FT MCLELLAN, WILL IDENTIFY THOSE SPACES TO BE AFFORDED TRANSFER OF FUNCTION RIGHTS. CPO FT MCCLELLAN, IN COORDINATION WITH CPO ABERDEEN PROVING GROUND, MDW REDSTONE ARSENAL, AL WILL DETERMINE DISPOSITION OF CIVILIAN PERSONNEL IDENTIFIED FOR TRANSFER IAW EXISTING CIVIL SERVICE AND DA CIVILIAN PERSONNEL REGULATIONS.

G. EQUIPMENT.

(1) POST, CAMP AND STATION EQUIPMENT WILL NOT BE RELOCATED. ONLY THAT TOA EQUIPMENT PECULIAR TO THE CHEMICAL AND EOD MISSION AND ESSENTIAL TO THE CONDUCT OF THE COURSES BEING TRANSFERRED WILL

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PRIORITY * U N C L A S S I F I E D *
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BE RELOCATED.

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NNNN

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PRIORITY * U N C L A S S I F I E D *
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PRIORITY ********** * U N C L A S S I F I E D * **********

PT 00823 047 022448

PTTUZYUW RUEOPOA3224 0462300-UUUU--RUCLBWA.

ZNR UUUUU

P 152254Z FEB 73

FM CDRCONARC FT MONROE VA//ATIT-PRS//

TO RUEOPIA/CDRUSACNE FT MEADE MD

RUCLHTA/CDRUSATHREE FT MCPHERSON GA

RUEOGDA/CDRUSAOCRS APG MD//ATSOR-IT//

RUCLBWA/CDRUSACMLCS FT MCCLELLAN AL

RUCLGOD/CDRUSAMMCS REDSTONE ARSENAL AL

RUCLBWA/CDRUSASTC FT MCCLELLAN AL

RUEOFUA/COMDT USAIS FT BELVOIR VA

RUEBDOA/COMDT USAOMS FT LEE VA

INFO RUEADWD/DA//DAPE-PDT/DAFD-FDX//

BT

UNCLAS FINAL SECT OF TWO

(2) EDUCATIONAL TV EQUIPMENT AND AUDIO-VISUAL SUPPORT EQUIPMENT WILL NOT BE RELOCATED BUT WILL REMAIN IN PLACE FOR SUPPORT OF THE WAC AND IN THE EVENT OF OTHER TRAINING ACTIVITY BACKFILL AT FT MCCLELLAN.

(3) DISPOSITION OF TRAINING AIDS AND DEVICES. TEC GP

(A) TRAINING AIDS AND DEVICES PECULIAR TO CHEMICAL AND ECD

ACTION M/Sch

INFO

INFO

INFO

INFO

PRIORITY ********** * U N C L A S S I F I E D * **********

TRAINING AND ESSENTIAL TO THE CONDUCT OF THE COURSES BEING TRANS-

FERRED WILL BE RELOCATED WITH THE COURSES.

(B) TRAINING AIDS AND DEVICES PERTAINING TO SMOKE AND FLAME OPERATIONS WILL BE TRANSFERRED TO THE US ARMY ENGINEER SCHOOL, FORT BELVOIR, VA(REF F).

(C) TRAINING AIDS AND DEVICES PERTAINING TO PROTECTIVE CLOTHING WILL BE TRANSFERRED TO THE US ARMY QUARTERMASTER CENTER AND SCHOOL, FT LEE, VA(REF F).

(D) TRAINING AIDS AND DEVICES NOT FALLING IN THE CATEGORIES REFERRED TO IN (A) THROUGH(C) ABOVE WILL BE TURNED OVER TO THE LOCAL TRAINING AIDS CENTER FOR DISPOSITION.

H. CHEMICAL CORPS MUSEUM. THE CHEMICAL MUSEUM AND ANY OTHER HISTORICAL MEMORABILIA WILL BE RELOCATED TO ABERDEEN PROVING GROUND AND CONSOLIDATED WITH THE ORDNANCE CORPS MUSEUM. THE PROVISIONS TO CLOSING AN ARMY MUSEUM AS SET FORTH IN AR 870-5 WILL BE COMPLIED WITH.

I. USACDC CBR AGENCY. THE USACDC CBR AGENCY WILL BE ASSIGNED TO THE USAMLCS EFFECTIVE 1 MAR 73. INFORMATION PERTAINING TO THIS ACTION WILL BE PROVIDED BY SEPARATE CORRESPONDENCE.

J. J. FUNDING. ALL COSTS RESULTING FROM THE CLOSING OF THE

PRIORITY

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USACMLCS WILL BE PROGRAMED IN FY 73. ADDITIONAL FUNDS REQUIRED TO

COVER THE COSTS FOR TERMINAL LEAVE PAYMENTS, SEPARATION ALLOWANCES, PCS MOVEMENTS, AND RELOCATION OF SCHOOL EQUIPMENT AND IMPEDIMENTA WILL BE IDENTIFIED BY KEY ACCOUNT AND SUBMITTED BY SEPARATE COVER TO THIS HQ FOR FUNDING. FUNDS WILL ALSO BE IDENTIFIED TO MISSION AND BASE OPERATIONS RQMTS. BASE OPERATIONS RQMTS WILL BE FURTHER IDENTIFIED BY KEY ACCOUNTS. ALL ACTION RELATED TO FUNDING WILL COMMENCE IMMEDIATELY AND BE CONCLUDED NO LATER THAN 24 JUN 73. FY 74 FUNDS WILL NOT BE PROGRAMED FOR MISSION ACCOMPLISHMENT AND/OR RELOCATION OF THE USACMLCS. POC AT THIS HQ IS MR. TOM SINAL, AUTOVON 680-4131.

X. REQUEST THIS HQ, ATTN: ATIT-PRS, BE PROVIDED NLT 23 FEB 73 WITH A MILESTONE SCHEDULE OF EVENTS TO ACCOMPLISH THE DISESTABLISHMENT OF THE USACMLCS AND TRANSFER THE CHEMICAL COURSES IN ACCORDANCE WITH THE GUIDANCE FURNISHED IN SUB PARAGRAPHS B THROUGH J, ABOVE.

Z. THE COMDT-S OF USAOCSS AND USAMMCS WILL SUBMIT TO THIS HQ, ATTN ATIT-PRS, ASAP, APPROPRIATE PROJECTS FOR MODIFICATION OF FACILITIES AS NECESSARY TO ACCOMPLISH THE ADDITIONAL MISSIONS REFERRED TO IN PARAGRAPH 2C(1) AND (2), ABOVE.

4. CHEMICAL AGENTS. GUIDANCE FOR THE DISPOSTION OF CHEMICAL AGENTS LOCATED AT FT MCCLELLAN IS CONTAINED IN REF C. POC AT DA

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IS LTC J. E. ADAMS, OXFORD 59001.

5. THE COMDT USACDSS WILL PROVIDE THIS HQ NLT 16 APR 73, IAW CDN REG 350-13, THE FOLLOWING PROGRAMS OF INSTRUCTION (POI) FOR APPROVAL:

A. REVISED ORDNANCE OFFICER ADVANCED COURSE TO INCLUDE EXPANDED SCOPE OF CBR INSTRUCTION.

B. CHEMICAL OFFICER MOS COURSE REFERRED TO IN PARAGRAPH 3C, REF A.

6. LESSONS LEARNED. IT IS ANTICIPATED THAT SIGNIFICANT BENEFITS CAN BE DERIVED FROM "LESSONS LEARNED" DURING THE DISESTABLISHMENT OF THE USACMLCS AND THE TRANSFER OF CHEMICAL COURSES. THESE LESSONS SHOULD AID AND IMPROVE THE EFFICIENCY OF SIMILAR SCHOOL ACTIONS PROPOSED AND/OR PROGRAMED FOR THE FUTURE. TO ASSIST IN THIS ENDEAVOR, REQUEST ADDRESSEES PROVIDE THIS HQ, ATTN: ATIT-PRS, WITH INFORMATION OF THE NATURE OF "LESSONS LEARNED" DURING THE PREPARATION FOR AND THE ACTUAL DISESTABLISHMENT OF THE USACMLCS AND RELOCATION OF THE COURSES. MATTERS PERTAINING TO PERSONNEL, INTELLIGENCE, OPERATIONS, ORGANIZATION, TRAINING, LOGISTICS, COMMUNICATIONS AND EQUIPMENT AS WELL AS ANY PROBLEMS OCCURRING WITHIN THESE AREAS ARE CONSIDERED APPROPRIATE TOPICS.

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7. AFTER ACTION REPORT. THE COMDT USACMLCS, IN COORDINATION WITH

REMAINING ADDRESSEES, WILL PROVIDE THIS HQ, ATTN: ATIT-PRS WITH AN AFTER ACTION REPORT NLT 30 DAYS AFTER ALL OF THE COURSES HAVE BEEN RELOCATED AND THE USACMLCS IS DISESTABLISHED. USING1 MAR 73 AS THE BASE POINT, THE AFTER ACTION REPORT WILL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

A. PERSONNEL INCREASES AND DECREASES AT EACH OF THE INSTALLATIONS AFFECTED.

B. ONE-TIME AND INCREASED/DECREASED RECURRING COSTS RESULTING FROM EACH SPECIFIC ACTION AND EACH ACTIVITY AND INSTALLATION AFFECTED.

C. ANNUAL SAVINGS RESULTING FROM EACH ACTION.

D. IMPACT ON LOSING INSTALLATION TO INCLUDE COMMUNITY, ENVIRONMENT, FACILITIES, FAMILY HOUSING, ETC.

E. IMPACT ON GAINING INSTALLATION TO INCLUDE COMMUNITY, ENVIRONMENT, FACILITIES, FAMILY HOUSING, ETC.

F. EACH OF THE ITEMS LISTED IN A THROUGH E, ABOVE, WILL BE IDENTIFIED AS TO THE SPECIFIC ACTION, INSTALLATION(S) AND DATES AFFECTED. ACTIONS AFFECTING FUNDS WILL BE IDENTIFIED TO INCLUDE ACTIVITY ACCOUNT AND ELEMENT OF EXPENSE AFFECTED.

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* U N C L A S S I F I E D *
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8. THIS HQ WILL INITIATE ACTION TO DA FOR DISCONTINUANCE OF UIC EFFECTIVE 24 JUN 73.

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* U N C L A S S I F I E D *
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RADIOLOGICAL DECONTAMINATION PLAN
US Army Chemical Center and School
Fort McClellan, Alabama 36201

ATSCM-HP 16 February 1973

OBJECTIVE: To achieve radiological clearance from DA and AEC authorities when departing Fort McClellan.

TARGET DATE: To complete all actions by 24 Jun 73. A clearance inspection is scheduled for 1 Jun 73 to allow time for corrective action.

EXECUTION: Release of the attached DA Form 2701, Job Order Request, and DF (Incl 1 & 2) will initiate execution of the plan. These are open-ended and provide for support based principally upon the attached Decontamination Task List (Incl 3). Personnel support will be required for most of the tasks, as well as equipment. Lettering for proposed signs is shown in Incl 4. Additional tasks not currently envisioned could be required, necessitating some flexibility in this plan. Health Physics Division will furnish someone to monitor and provide consultation for all operations.

REFERENCE: This plan was developed using advice from DA and AEC inspecting officials as set forth in Memorandum For Record, ATSCM-HP, dated 9 Feb 73, subject: Radiological Decontamination Guidance.

SUPPORT FORCES/TYPE OPERATIONS REQUIRED:

Post Engineer - concrete surface removal as required (sand blasting and air hammer); use of rock-crusher and dump truck; concrete break-up (low-dust requirement); pouring of new concrete; construction and installation of barrier structures (wooden); construction of shipping boxes for sources; soil removal and transfer to 55-gallon drums at remote site; installation of hardware on metal doors; torch welding and cutting (on location); utilities disconnect/disable; plug drains and provide alternate system (Bldg 3192); make and install permanent signs; inspect plumbing and repair; plow and disc field; move APC, air frame, radar set and 3/4-ton truck to salvage yard.

Center Transportation - assist in arrangements for shipments of radioactive materials to Aberdeen PG and of waste drums where directed.

Sch Bn, USACMLCS - provide for fork lift and wrecker when required; 4-wheel drive vehicles for remote site; details to assist during Post Engineer work as required; hammer and chisel concrete and tile removal; pick and shovel concrete pedestal removal; soil and concrete transfer; assist in packaging of waste in drums; alpha plate removal; move packaged sources and waste drums prior to shipment.

ORIGINAL

Radiological Decontamination Plan (cont)

NAVTRAU, USACMLCS - provide assistance for disposal of Navy-owned radiological training items.

USAEHA and USAEC - have agreed to provide survey assistance and final clearance.

APPROVED BY COMMANDANT:

JACK VANDERBLEEK
COL, CmlC
Commandant

APPROVED BY CENTER COMMANDER:

JOSIAH A. WALLACE, JR.
COL, FA
Commanding

4 Incl
as

CF:
Cdr, USAS/TC
Dep Cdr, USAS/TC
AJMGP:
Dir
C, Pers Svc Div
Safety Manager
AJMFE:
Dir
C, Work Coord Br
C, Bldg & Grd Br
Cdr, Co D, 46th Engr Bn (Const)
AJMGL:
Dir
C, Trans Div
C, Procurement Div
AJMGT:
Dir
C, Tng Div
Range Off
AJMGC
NAICO
USACMLCS:
Comdt
Asst Comdt
Alt Hlth Phys Off
DOI
Dir, Ofc of Log
Dir, Tech Gp
C, Rad Com
OAR
NTU
M/PBO
Cdr, Sch Bn
AEC (Mr. Paul Guinn)(info only)
AEHA (MAJ Gordon Lodde)(info only)

(Incl ~~1, 2 & 4 attached to action copy only~~
Inclosures distributed as appropriate

ATSCM-HP

Memorandum For Record 28 Feb 73

Subject: Decon Plan Modification - Alpha Field Pedestals

MAJ Saunders, C&B Comm Chief, who recently returned from Aberdeen and is working on the technical facilities requirements, said there is no existing alpha field at Aberdeen or Edgewood and we will need to take our concrete pedestals along with us. He is asking for an area 150x150 in the vicinity of "howitzer hill". (26 Feb)

The next day we found out that (1) the new howitzer hill exercise will not use live agent, and (2) although we told MAJ Saunders that the threaded portions are rusted on many of the pedestals and will not be reusable, he said to take them anyway and maybe we can think of some alternate means of attaching the plates after we get to Aberdeen. The site for the proposed alpha field is not yet determined.

CHARLES J. WICKSTROM
MAJ, CmlC
C, HP Div

Note: (APR 73) Ship. Wt. Est.

Density of concrete 2.35 g/cc

Each pedestal 4x4x8 in or 10x10x20 = 2000 cc

Net shipping weight 10.34 16 x 500 = 5000 lbs

ATSCM-HP 2 Mar 73

Memo For Record

SUBJECT: Decon-Activities

MAJ Taylor of 3d Army NBC Div, DCS Opns and Tng, phoned and wanted to know if CmlS was going to leave any sources. He also asked about the disposal action (local or not?) to be taken on sources to be discarded.

I told him we were not going to leave any of our sources, and that most of them would be taken along with us, probably in one escorted shipment, and that those we got rid of would be put into drums and disposed of by contacting Edgewood, probably resulting in burial in Kentucky.

MAJ Taylor said he will remain at Ft McPherson and be in the NBC Surety Div of FORSCOM when it takes over.

CHARLES J. WICKSTROM
MAJ, CmlC
C, Health Physics Div

ATSCM-HP

2 Mar 73

MEMO FOR RECORD

SUBJECT: DECON PLAN FOLLOW-UP

A meeting took place 0900 hrs 2 Mar to assign tasks within Engineer capabilities on post. Present were Mr. Holladay, Bldgs and Grounds, Mr. Jones, Work Coord Branch, LT John Jordan, Opns Officer, 46th Engrs(D Co), and SSG Truffa and MAJ Wickstrom of Health Physics. Telephone call to CPT Szell, Commanding the 46th Engr unit, was made 1 Mar, and resulted in the setting up of the meeting. Meeting took place at USACMLCS.

The work order #2553 will be approved this morning at DFAE. The tasks where DFAE support is shown on the Task List attached to the work order are assigned as follows:

TASK NO.	ASGD TO	TASK NO.	ASGD TO
1	Post Engr	16	46th
2	46th Engr	21	46th
3	46th	23	46th
4	46th	24	46th
5	46th	26	46th
6	Post	33	46th
7	46th	41	46th
8	46th for	44	Post
9	Post	46	46th
10	Post	53	Post
11	46th	55	46th(A Co Detachment to assist)
12	Post		
13	46th	20	46th(Reassigned from Sch Bn)
14	Post		

The 46th Engrs was designated as the principal point of contact for liaison in accomplishment of the Decon Plan: LT Jordan or SFC Seach, ext 4341, and direct coordination was specified.

To launch work on those of the above tasks requiring work soon, three Monday 5 Mar arrangements were made as follows:

(1) Mr Holladay will send someone to work on the Bldg 3192 exterior door, to disable the panic bar and install an exterior locking device.(task 1)

(2) Mr Holladay will arrange for plumbing and building repair representatives to come Mon afternoon for tasks 10 and 14 decisions.

(3) LT Jordan will come Mon morning with about 3 men to measure for tasks 2,3,4,5,7,8,11,23, between 0830 and 0900(will call first).

Also, Post Engr will begin work on tasks 6 and 12, the signs, and inform the 46th Engrs when they are done.

CHARLES J. WICKSTROM
MAJ, CmlC
C, Health Physics Division

cf Asst Comdt
D/46th Opns Officer
Mr. Holladay

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ROUTINE * UNCLASSIFIED E F T O *

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PI 00617 065 092015

USACMLES

RTTEZYUW RUEOPOA9867 0642351-EEEE--RUCLSWA.

ZNY EEEEE

R 052314Z MAR 73

FM CORCONARC FT MONROE VA //ATLOO-M4T-EG//

TO RUCLHTA/CDRUSATHREE FT MCPHERSON GA //AJAGL-SM-M//

INFO RUCLDEA/CDR FT GORDON GA //AJGSD//

RUCLSWA/COR FT MCCLELLAN AL //AJMCL-M//

BT

UNCLAS E F T O

SUBJ: STAFF VISIT TO FT MCPHERSON, FT GORDON AND FT MCCLELLAN

(S: 8MAR 73)

A. AR 700-52.

B. AR 725-1

C. CON REG 700-63.

D. FONECON, MR LEO ADAMCZYC, THIRD US ARMY AND MAJ STEVENS,

HQ CONARC, 1 MAR 73.

1. THE CONARC RADIOLOGICAL CONTROL OFFICER LISTED IN PARA 1A

BELOW WILL CONDUCT A STAFF VISIT TO THE INSTL LISTED IN PARA 1B

THROUGH 1C BELOW ON DUTIES INDICATED (REF D):

A. MAJ JOHN W. STEVENS, 532-32-3813, SECURITY CLEARANCE

TOP SECRET.

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ROUTINE * UNCLASSIFIED E F T O *

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ROUTINE ********** UNCLASSIFIED E F T O **********

B. HQ THIRD US ARMY AND FT MCPERSON, 19 AND 20 MAR 73.

PAGE 2 RUEOZOA4086 UNCLAS E F T O

C. FT MCCLELLAN AND US ARMY CML CEN AND SCH 20 AND 21 MAR 73.

D. FT GORDON 21 AND 22MAR 73.

2. PURPOSE OF STAFF VISIT IS TO DETERMINE COMPLIANCE WITH ATOMIC ENERGY COMMISSION LICENSES, DA REGULATIONS, AUTHORIZATIONS AND PERMITS FOR RADIOACTIVE MATERIEL.

A. A. CONTROL OF RADIOACTIVE MAT AND RADIOLOGICAL SAFETY PROCEDURES ARE PRIMARY AREAS OF INTEREST INCL, AS APPLICABLE:

(1) RADIOISOTOPE INVENTORY AND LEAK TEST REPORTING (RCS AMC-132) (CON REG 700-63).

(2) DISPOSAL OF UNWANTED RADIOACTIVE MAT (AR 755-15).

(3) IMPLEMENTATION OF STEADFAST PLAN, AND ACTIVATION OF FORSCOM RADIOACTIVE MAT CONTROL POINT.

(4) TRANSFER OF RADIOACTIVE MAT PENDING DISESTABLISHMENT OF US ARMY CHEMICAL CEN AND SCH.

3. REPRESENTATION FROM HQ THIRD US ARMY IS ENCOURAGED, BUT NOT REQUIRED, DURING STAFF VISITS TO FT GORDON AND FT MCCLELLAN.

4. BILLETING, TRANS AND FINAL ITINERARY WILL BE ARRANGED TELEPHONICALLY. REQ NAME AND TELEPHONE NUMBER OF INSTL ESCORT OFFICER BE PROVIDED MAJ STEVENS 13731 OR 3703 NLT 9 MARCH 1973.

ROUTINE ********** UNCLASSIFIED E F T O **********

ROUTINE ********** UNCLASSIFIED E F T O **********

BT

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3 cy received from Mr. Daniel 7 MAR

CF: 1. Routing File USACMLCS

→ 2. HP Div — Close-Out Files

3. HP Div — Staff Visit File

ROUTINE ********** UNCLASSIFIED E F T O **********

HP Staff Visits File Copy

#218

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ROUTINE * UNCLASSIFIED E F T O *

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USACMLCS

3-42

RTTEZYUW RUEOPOA8867 0642351-EEEE--RUCLBWA.

ZNY EEEEE

R 052314Z MAR 73

FM CDRCONARC FT MONROE VA //ATLOG-MAT-EQ//

TO RUCLHTA/CDRUSATHREE FT MCPHERSON GA //AJAGL-SM-M//

INFO RUCLDIA/CDR FT GORDON GA //AJGSD//

RUCLBWA/CDR FT MCCLELLAN AL //AJMCL-H//

ACTION DTO/Pho

INFO

INFO

INFO

INFO

BT

UNCLAS E F T O

SUBJ: STAFF VISIT TO FT MCPHERSON, FT GORDON AND FT MCCLELLAN

(S: 8MAR 73)

1 - Health Physics
1 - Security
1 - Secy
1 - Cir + File)

A. AR 700-52.

B. AR 725-1

C. CON REG 700-63.

D. FONECON, MR LEO ADAMCZYC, THIRD US ARMY AND MAJ STEVENS, HQ CONARC, 1 MAR 73.

1. THE CONARC RADIOLOGICAL CONTROL OFFICER LISTED IN PARA 1A BELOW WILL CONDUCT A STAFF VISIT TO THE INSTL LISTED IN PARA 1B THROUGH 1C BELOW ON DUTIES INDICATED (REF D):

A. MAJ JOHN W. STEVENS, 532-32-3813, SECURITY CLEARANCE TOP SECRET.

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ROUTINE * UNCLASSIFIED E F T O *

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ROUTINE ********** UNCLASSIFIED E F T O **********

9. HQ THIRD US ARMY AND FT MCPERSON, 19 AND 20 MAR 73.

PAGE 2 RUEOPO4A067 UNCLAS E F T O

C. FT MCCLELLAN AND US ARMY CML CEN AND SCH 20 AND 21 MAR 73.

D. FT GORDON 21 AND 22MAR 73.

2. PURPOSE OF STAFF VISIT IS TO DETERMINE COMPLIANCE WITH ATOMIC ENERGY COMMISSION LICENSES, DA REGULATIONS, AUTHORIZATIONS AND PERMITS FOR RADIOACTIVE MATERIEL.

A. A. CONTROL OF RADIOACTIVE MAT AND RADIOLOGICAL SAFETY PROCEDURES ARE PRIMARY AREAS OF INTEREST INCL, AS APPLICABLE:

(1) RADIOISOTOPE INVENTORY AND LEAK TEST REPORTING (RCS AMC-192) (CON REG 700-63).

(2) DISPOSAL OF UNWANTED RADIOACTIVE MAT (AR 755-15).

(3) IMPLEMENTATION OF STEADFAST PLAN, AND ACTIVATION OF FORSCOM RADIOACTIVE MAT CONTROL POINT.

(4) TRANSFER OF RADIOACTIVE MAT PENDING DISESTABLISHMENT OF US ARMY CHEMICAL CEN AND SCH.

3. REPRESENTATION FROM HQ THIRD US ARMY IS ENCOURAGED, BUT NOT REQUIRED, DURING STAFF VISITS TO FT GORDON AND FT MCCLELLAN.

A. BILLETING, TRANS AND FINAL ITINERARY WILL BE ARRANGED TELEPHONICALLY. REQ NAME AND TELEPHONE NUMBER OF INSTL ESCORT OFFICER BE PROVIDED MAJ STEVENS 13731 OR 3703 NLT 8 MARCH 1973.

ROUTINE ********** UNCLASSIFIED E F T O **********

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ROUTINE * UNCLASSIFIED E F T O *

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RTTEZYUW RUEOPCA8867 0542351-EEEE--RUCLSWA.

ZNY EEEEE

R 0523142 MAR 73

FM CONCONARC FT MONROE VA //ATLOG-MAT-EQ//

TO RUCLHTA/CDRUSATHREE FT MCPHERSON GA //AJAGL-SM-H//

INFO RUCLDIA/CDR FT GORDON GA //AJGSO//

RUCLSWA/CDR FT MCCLELLAN AL //AJMCL-H//

BT

UNCLAS E F T O

SUBJ: STAFF VISIT TO FT MCPHERSON, FT GORDON AND FT MCCLELLAN

(S: 8WAR 731

A. AR 700-52.

B. AR 725-1

C. CON REG 700-63.

D. TELECON, MR LEO ADAMCZYC, THIRD US ARMY AND MAJ STEVENS.

HQ CONARC, 1 MAR 73.

1. THE CONARC RADIOLOGICAL CONTROL OFFICER LISTED IN PARA 1A BELOW WILL CONDUCT A STAFF VISIT TO THE INSTL LISTED IN PARA 1B THROUGH 1C BELOW ON DUTIES INDICATED (REF D):

A. MAJ JOHN W. STEVENS, 532-32-3813, SECURITY CLEARANCE TOP SECRET.

/- HP

/- Cent File

/- LTC Ryan

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ROUTINE * UNCLASSIFIED E F T O *

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ROUTINE * UNCLASSIFIED E F T O *
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ROUTINE * UNCLASSIFIED E F T O *
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ROUTINE ********** * UNCLAS E F T O * **********

S. HQ THIRD US ARMY AND FT MCPHERSON, 19 AND 20 MAR 73.

PAGE 2 RUEOPOA4867 UNCLAS E F T O

C. FT MCCLELLAN AND US ARMY CML CEN AND SCH 20 AND 21 MAR 73.

D. FT GORDON 21 AND 22MAR 73.

2. PURPOSE OF STAFF VISIT IS TO DETERMINE COMPLIANCE WITH ATOMIC ENERGY COMMISSION LICENSES, DA REGULATIONS, AUTHORIZATIONS AND PERMITS FOR RADIOACTIVE MATERIEL.

A. A. CONTROL OF RADIOACTIVE MAT AND RADIOLOGICAL SAFETY PROCEDURES ARE PRIMARY AREAS OF INTEREST INCL, AS APPLICABLE:

(1) RADIOISOTOPE INVENTORY AND LEAK TEST REPORTING (RCS AMC-132) (COM REC 700-53).

(2) DISPOSAL OF UNWANTED RADIOACTIVE MAT (AR 755-15).

(3) IMPLEMENTATION OF DISASTER PLAN, AND ACTIVATION OF FORSCOM RADIOACTIVE MAT CONTROL POINT.

(4) TRANSFER OF RADIOACTIVE MAT PENDING DISESTABLISHMENT OF US ARMY CHEMICAL CEN AND SCH.

3. REPRESENTATION FROM HQ THIRD US ARMY IS ENCOURAGED, BUT NOT REQUIRED, DURING STAFF VISITS TO FT GORDON AND FT MCCLELLAN.

4. BILLETING, TRANS AND FINAL ITINERARY WILL BE ARRANGED TELEPHONICALLY. REQ NAME AND TELEPHONE NUMBER OF INSTL ESCORT OFFICER BE PROVIDED MAJ STEVENS 3732 OR 7703 NLT 8 MARCH 1973.

LAST PAGE

BT

#4867

ROUTINE ********** * UNCLASSIFIED E F T O * **********

ATSCM-HP

Inventory List - Equipment Release Dates

THRU Asst Commandant
TO Dir, Office of Logistics

C, Health Physics Div

8 Mar 73
MAJ Wickstrom/cw/3937

1. In response to DF:ATSCM-AO(para 4)dated 1 Mar 73, Subject: Personnel Staffing and Requirements for Transfer of USACMLCS Functions, an annotated copy of Hand Receipt #20 is attached(Incl 1).

2. Many items have release dates later than 1 May, which conflicts with the guidance in the 1 Mar DF. One reason for this is that DA and AEC clearance inspections are scheduled in early June, and some equipment is required during the inspections and to support decontamination actions in the event a reinspection is required. The Office of Logistics has concurred with the Health Physics Disestablishment Task List(Incl 2) and Radiological Decontamination Plan(Incl 3), both of which call for radiological actions extending into the May-June time frame. Acceleration of the timetables in Incl 2 and 3 does not appear realistic at this time, given the required radiological instruction schedule(See Incl 4, Phase-Down Timetable). Fortunately the volume of Health Physics Division items is small.

3. For optimum supply control, I recommend that the Health Physics Division items(Hand Receipt #20) be sent to Aberdeen in just two shipments: one accompanying the radioactive source shipment(about 28 May), and one after final radiological clearance has been granted(about 15 Jun).

Charles J. Wickstrom

CHARLES J. WICKSTROM
MAJ, CmlC
C, Health Physics Division

4 Incl
as

12 MAR - Talked this over with LTC Hodges. No big problems — let him know as soon as possible on use of source shipment vehicle to take our items also (or not), so Ofc Log can program if necessary. No sole-purpose HP shipment is planned. Special HR from Post to HPD may be required vic. of 15 JUN. We are his first response to his DF!

HAND RECEIPT

For use of this form, see AR 735-35; the proponent agency is the office of the Deputy Chief of Staff for Logistics.

FROM: PBO 1D901 USACMLC

Fill in the following wh

CATALOG NO. | CI

Following last item, state in each balance column the type of action *(e.g. issue, turn-in, inventory, etc.)* producing this balance, date of action, and signature.

HAND RECEIPT #20

STOCK NO.	ITEM DESCRIPTION	T' (a)	C' (t)	1	2	3	RELEASE DATE	DEST.	NOTES
6665-NSN	Ser #4182 Air Sampler staplex Hi volume Mdl TFIA Vac	1		1	1	1	15 Jun	APG	Reqd until radl (ce
6660-892-2314	Ser #43 Anemometer ML-497/PM 0 to 8 & 0 to 40	1		1	1	1	23 Apr	APG	
7125-641-5436	Cabinet storage 2 doors w/lock and shelves	2		2	2	2			Station Prop - turn over in place
7125-NSN	Cabinet storage "ASE" counter H 42x36x18" PAINT SHED	1		1	1	1			Station Prop - turn over in place
6665-752-7790	TM 11-6665-204-12 12 Dec 63 Calibrator Radiac TS 784A/PD	20		20	20	20	12 Mar	APG	Ship in May(DA perm) (radioactive items)
	Ser #'s 011A3698, 026A4043, 029A3911, 031A3896, 055A3952, 058A3900, 059A4174, 060A4035, 062A4122, 063A3930, 064A3931, 065A3664, 066A4181, 067A4050, 072A4023, 075A4150, 076A4180, 070A4049, 083A4167, 151A4255	/		/	/	/			
7110-NSN	Chair Auditorium w/tablet arm metal	60		60	60	60			Station Prop - turn over in p ce
6665-542-1177	TB 11-6665-215-12/1 24 Dec 63 Charger Radiac Detector PP-1578/PD	6		6	6	3	28 May	APG	Reqd until sources go
	Ser #'s 2042, 2074, ~~2593~~, 3422, ~~3557~~, 7742	/		/	/	/			
7910-530-6260	Ser #1909 w/attachments Cleaner Vacuum upright w/blower outlet	1		1	1	1	15 Jun	APG	Reqd until radl clnce
7910-550-9111	Ser #36K036 Cleaner Vacuum vertical tank blower outlet	1		1	1	1	28 May	APG	Ship w/sources(contam)
6665-NSN	Ser #168 Condenser R-Meter Mdl 570 Victoreen or equal	1		1	1	1	12 Mar	APG	
8120-NSN	3 ton Container steel lined lead radiactive material	5		5	5	2	10 Apr	Turn In(salvage)	(Incl 3, #28)

'T - Total allowance for Hand Receipts. (a) Authorized per item for Hand Receipt Annexes.

'C - Current operating allowance for Hand Receipts. (t) Total authorized for Hand Receipt Annexes.

DA FORM 2062

STOCK NO.	ITEM DESCRIPTION	T' (a)	C' (t)	1	2	3	RELEASE DATE	DEST.	NOTES
8110-NSN	Cask lead 8"	1		1	0	0			
8110-NSN	Cask container f/cobalt 60	1		1	1	0			
8120-NSN	Container steel lined lead 2½ ton lead wall	1		1	1	1			Turned in - not yet posted to HR
3419-NSN	Ser #3107 1½ gal tank Decontaminator Ultrasonic cleaner rad dec w/	1		1	0	0			
7110=270-9840	Desk flattop double ped 60x34x30½"	4		4	4	4			Station Prop - turn over in place
7110-270-9838	Desk typewriter pullout left ped 60x34x30½"	1		1	1	1			Station Prop - turn over in place
7110-274-4914	Desk typewriter pullout right ped 60x34x30½"	1		1	1	1			Station Prop - turn over in place
7110-292-7460	File visible index cabinet 9 slides pocket type	2		2	2	0			
7110-286-3796	Filing cabinet cap size 5 dwrs w/para lock w/o base	3		3	3	3			Station Prop - turn over in place
5120-NSN	Remote Handling tool complete w/10 ft handle	1		1	1	1	12 Mar	APG	
5120-51D-0051	Remote tool handling set 10' handle assy	2		2	2	2	12 Mar	APG	
5120-NSN	Handling tool RHA 60/103 w/dual grip jaw RHJ	1		1	1	1	28 May	APG	Reqd until sources go
4210-NSN	Ladder Platform type weight stop 6'	1		1	1	1	15 Jun	APG	Reqd until radl ce
4240-368-6095	TM 3-4240-204-25P 17 Apr 70 Mask Protective special purpose M9A1 Med left	8		8	8	8	14 May	APG	Reqd for chipping opns
6625-66F-0007	Ser #14797 Meter Beta Gamma "Cutie Pie"	1		1	1	1	12 Mar	APG	
6625-NSN	Ser #'s (48679, (48757) Meter Survey Gamma Radiation Dose rate Mdl 611?	3		2	2	2	28 May 15 Jun	(lea)APG (lea)APG	Ship with sources Reqd for rad clnce
6625-66E-0007	Monitor personal radiation prima ~~IT~~ #05-200 Ser #'s 571, 573, 574, 578, 579, 581	6		6	6	6	28 May	APG	Reqd until sources go
4310-NSN	Pump air & vacuum cenco press o-vac 115V 60cy	1		1	1	0			

'T - Total allowance for Hand Receipts. (a) Authorized per item for Hand Receipt Annexes.
'C - Current operating allowance for Hand Receipts. (t) Total authorized for Hand Receipt Annexes.

101-18

HAND RECEIPT

For use of this form, see AR 735-35; the proponent agency is the office of the Deputy Chief of Staff for Logistics. AR 710-2

FROM: PBO 1D901 USA(

Fill in the following w

CATALOG NO.

Following last item, state in each balance column the type of action *(e.g. issue, turn-in, inventory, etc.)* producing this balance, date of action, and signature.

STOCK NO.	ITEM DESCRIPTION	T' (a)	C' (t)	1	2	3	RELEASE DATE	DEST.	NOTES
6665-543-1435	TM 11-6665-209-15 2 Sep 60 Radiac Set AN/PDR 27J Ser #7206	1		1	1	1	28 May	APG	Reqd until sources go
6665-975-7222	TM 11-6665-209-15 2 Sep 60 Radiac Set AN/PDR 27P Ser #'s 1517, 1579	2		2	2	2	15 Jun	APG	Reqd until radl clnce
6665-526-8648	TM 11-6665-206-12P 27 Oct 59 Radiac Set AN/PDR 39 Ser #'s 6582, LSD49	2		2	0	0			
6665-965-1520	TM 11-6665-216-15 Ser #'s 1248, 1249 Radiacmeter IM 170/PDR 60	2		2	2	2	28 May	APG	Reqd until sources go
6665-243-8199	TM 11-6665-214-10 27 Nov 62 Radiacmeter IM-9E & 9E/PD	28		28	28	28	28 May	APG	Reqd until sources go
5130-NSN	Scaler All Purpose Ser #'s PC6411 & ~~LCH 33A101~~ Tomalin 2	1		1	1	1	15 Jun	APG	Reqd until radl clnce
5130-NSN	Scaler Hammer Model N-221 w/equipment	1		1	1	1	15 Jun	APG	Reqd until radl clnce
6645-240-7162	TM 9-6645-200-12P 10 Feb 59 Stop Watch type B Ser #966810	1		1	1	0			
6645-NSN	Meter Remote Sensor radiation CD-V-711	2		2	0	0			
6665-NSN	Ser #1007 Survey Meter radector & remote chamber	1		1	1	1	28 May	APG	Reqd until sources go
6665-NSN	Ser #'s (599) 620 Survey Meter Beta Gamma Mdl E-510	2		2	2	2	15 Jun	APG	Reqd until radl clnce
6625-NSN	(6) ~~Survey Meter Geiger~~ Beta-Gamma floor monitor	1		1	1	1	15 Jun	APG	Reqd until radl clnce
7110-266-7162	Table Office Steel OG 60x34x30½" 2 drawers	1		1	1	1			Station Prop - turn over in place
7110-582-0982	Table Office Lin top 36x24x30½"	1		1	1	1			Station Prop - turn over in place
7110-753-6356	Table Office steel gray 36x24x30½"	1		1	1	1			Station Prop - turn over in place

'T - Total allowance for Hand Receipts. (a) Authorized per Item for Hand Receipt Annexes.

'C - Current operating allowance for Hand Receipts. (t) Total authorized for Hand Receipt Annexes.

DA FORM 2062

STOCK No.	ITEM DESCRIPTION	T' (a)	C' (t)	1	2	3	RELEASE DATE	DEST.	NOTES
3930-NSN	Truck stainless steel 4x1" shelves 400 lbs	2		2	2	2	12 Mar(lea)	Turn In	(excess)
3920-223-0596	Truck hand 2 wheel barrel type wd frame	1		1	1	1	28 May(lea)	APG	Reqd until sources go
7430-267-3456	Ser #435538 Typewriter Nonptbl elec 15" Mdl C-812	1		1	1	1	15 Jun	APG	Reqd until radl clnce
7430-663-9742	Ser #2551289 Typewriter Nonptbl elec elite 20" Mdl C-113	1		1	1	0			Station Prop - turn over in place
8415-823-[illegible]6	Smock Cotton Drill White	3		3	3	3	15 Jun	APG	Reqd until radl [illegible]e
6665-NSN	range 0-200rad mdl 06-884 Dosimeters Fast Neutron Direct reading equiv	12		/	12	12	10 May	APG	Reqd until n-source goes
6665-NSN	Ser #2452 Charger Deluxe transistoried w/1 std 1.V DCell	1			1	1	10 May	APG	Reqd until n-source goes
6640-66H-0030	Handling Tool Tongs carrying 5 ft long	1			1	1	28 May	APG	Reqd until sources go
7110-817-0646	Filing Cabinet shelf legal size	0		[illegible]	[illegible]	2			Station Prop - turn over in place
7110-262-6663	Table office w/1 drawer 60x34x30½"	1		[illegible]	[illegible]	1			Station Prop - turn over in place
6645-NSN	Meter CDV-711 Mdl #2 Ser #119	1		[illegible]	[illegible]	1	12 Mar	Turn In	(excess)

TRAINING AIDS

HAND RECEIPT/ANNEX NO.
For use of this form, see AR 735-35; the proponent agency is the office of the Deputy Chief of Staff for Logistics.

FROM: PBO 1D901 USAC

Following last item, state in each balance column the type of action *(e.g. issue, turn-in, inventory, etc.)* producing this balance, date of action, and signature.

Fill in the following

CATALOG No.

STOCK No.	ITEM DESCRIPTION	T' (a)	C' (t)	1	2	3	RELEASE DATE	DEST.	NOTES
TAD 102	Chalkboard w/easel	1		1	1	1	12 Mar	Turn In	(excess)
TAD 2.1	Lectern classroom	1		1	1	1	12 Mar	Turn In	(excess)
NSN	Mock-up actulator approx 36"x52"	1		1	0	[illegible]			

HAND RECEIPT/ANNEX NO.

For use of this form, see AR 735-35; the proponent agency is the office of the Deputy Chief of Staff for Logistics.

FROM:

TO:

Hand Receipt File No. 20

Following last item, state in each balance column the type of action *(e.g. issue, turn-in, inventory, etc.)* producing this balance, date of action, and signature.

Fill in the following when this form is used as Hand Receipt Annex.

CATALOG NO. | CURR OF ALW | ITEM

STOCK No.	ITEM DESCRIPTION	T[1] (a)	C[1] (t)	BALANCE 1	2	3	4	5	6	7	8	9	10	11	12
NSN	Laboratory bench, 43"x48"x158", light wood top with four metal pedestals (in Room 217)			1		THE TWO ITEMS SHOWN ON THIS PAGE ARE NOT PART OF HAND RECEIPT #20 PROPER. THEY HAVE BEEN ADDED HERE TO INDICATE THAT A REQUIREMENT TO SHIP THEM TO ABERDEEN EXISTS. THEY BELONG TO HEALTH PHYSICS AND ARE IN A SIMILAR CATEGORY TO THE LAB BENCHES BEING SHIPPED FOR THE CHEM LAB AND SCALER LAB.									
NSN	Laboratory bench, 36"x42"x149", all hardwood, with nine drawers (in Bldg 3192)			1											

[1]T - Total allowance for Hand Receipts. (a) Authorized per item for Hand Receipt Annexes.
[1]C - Current operating allowance for Hand Receipts. (t) Total authorized for Hand Receipt Annexes.

PAGE NO.

NO. OF PAGES

DA FORM 1 JAN 58 2062

HEALTH PHYSICS DIVISION (HPD)

TASK	DATE START	DATE COMPLETE	STAFF RESPONSIBILITY	USAS/TC ASSISTANCE REQUIRED NO	USAS/TC ASSISTANCE REQUIRED YES (AGENCY)
NOTIFY higher HQ RPO's and AEC of radiological close-out at Ft McCl & request transfer of 2 lic to APG	11 JAN		HPD		x routine commo support
OBTAIN decontamination limit guidance	11 JAN	25 JAN	HPD, USAEHA	X	
COMPLETE decon plan	12 JAN	10 FEB	HPD, OFC of LOG		x Post Engr
ISSUE phase-down sched for file #'s that use isotopes		20 JAN	HPD	x	
DECON hot cell, tng areas, waste yard	10 FEB	31 MAY	HPD, Ofc of Log		x Post Engr, Ctr Alta Trn
OBTAIN 55 gal drums for rad waste(50)		15 FEB	HPD, Ofc of Log		x Pur & Con Off
BUILD boxes for shipping radl material(30)	15 FEB	5 MAR	HPD, Ofc of Log		x Post Engr
PACK all radl sources for disposal of transfer(approx803)	5 MAR	5 MAY	HPD	x	
OBTAIN disposition instructions from EA	5 MAY	~~25 MAY~~ 5 JUN	HPD, Edg Ars		x routine commo support
~~DISPOSE of alpha plates (ship to ORNL)~~		~~10 JUN~~	HPD, Ofc of Log		x Transp
DISPOSE of Navy-owned sources ship to licensed Navy activity	1 APR	~~10 MAY~~ 15 JUN	HPD, NTU, Ofc of Log		x Transp
SHIP all other radl sources (total # is 803)	5 JUN	~~31 MAY~~ 25 JUN	HPD, Ofc of Log		x Transp
FINALIZE ADP exposure records at FtMcCl		24 30 JUN	HPD		x MISO , MEDDAC
FINALIZE other rad records and transfer to records holding area		24 30 JUN	HPD; Admin		x Rec Mgmt Off
DISPOSE of radl waste generated by clean-up decon (includes requesting instr, disposal)	1 JUN	24 30 JUN	HPD, Ofc of Log		x Transp
CLEARANCE by on-site inspection/survey		1 30 JUN	HPD, USAEHA		x Engr, Safety Off
ESTABLISH HPD capability at APG		1 JUL	HPD, higher HQ, AEC new HP Officer needed	x	

10 JAN 73

4) 2nd

PHASE-DOWN TIMETABLE

Pad Tng Area / Sources	Last Used by Radl Committee Class	Radl Committee Date	Naval Training Unit Class	Naval Training Unit Date	Action After Last Use
1. Lab T (and Isotope Lab)	2 CLP	23 Feb	No further use		1 MAR - Begin preparing all removable items for shipment, incl. benches and hood. Use lab for storage of packed items prior to shipment.
2. Bromine Field	32 COAC 3 ATL	28 Mar 19 Apr	4 SDPO	19 Apr	23 APR - Begin decon and clean-up, pack 11F3A 23 MAY - Dump tanks
3. Alpha Field Alpha plates only			4 SDPO	24 Apr	25 APR - Begin alpha plate and concrete abutment removal(500).
Alpha plates plus Cesium source	3 ATL	19 Apr	5 EOD(RS)	5 Apr	
4. Lab W Cesium sources(2 or 3)	3 CSS 9 CBRE 4 COBC 3 ATL 7 CBRO	Late Mar Late Mar Early Apr 18 Apr 25 Apr	4 SDPO 4 RS(N)	18 Apr 24 Apr	27 APR - Begin preparing all removable equipment for shipment, incl. benches. Use lab for storage of packed items. Pack Cesium sources.
AN/UDM-6 plus Cesium	15 TE	19 Apr			
AN/UDM-6 plus Cesium plus Calcium bags			5 EOD(RS)	4 Apr	
MX-7338's only	6 COA	Early Apr			

THE ABOVE TIMETABLE WILL BE ALTERED IF CONARC DOES NOT APPROVE OUR REQUEST FOR CANCELLATION OF ALL CLASSES THAT WOULD CLOSE AFTER 1 MAY. FOR INSTANCE:

- 2 NCO(BASIC) would use Alpha field and Lab W up to near closing 15-MAY (20 Apr; last use is prior to 25 Apr)
- 4 CSS would require Cesium sources(Lab W) in mid-MAY
- 7 COA would require MX-7338's(Lab W) in mid-MAY
- 7 CER would require MX-7338's(Lab W) in mid-MAY(closing 25 MAY)

Updated 8 Mar 73

HEALTH PHYSICS DIVISION (HPD)

	TASK	DATE START	DATE COMPLETE	STAFF RESPONSIBILITY	USAS/TC ASSISTANCE REQUIRED NO	USAS/TC ASSISTANCE REQUIRED YES (AGENCY)
1	NOTIFY higher HQ RPO's and AEC of radiological close-out at Ft McCl & request transfer of 2 lic to APG	11 JAN	√	HPD		x routine commo support
2	OBTAIN decontamination limit guidance	11 JAN	25 JAN √	HPD, USAEHA	X	
3	COMPLETE decon plan	12 JAN	10 FEB √	HPD, OFC of LOG		x Post Engr
4	ISSUE phase-down sched for file #'s that use isotopes		20 JAN √	HPD	x	
5	DECON hot cell, tng areas, waste yard	10 FEB	31 MAY	HPD, Ofc of Log		x Post Engr, Ctr Alfa Tm
6	OBTAIN 55 gal drums for rad waste(50)		15 FEB √	HPD, Ofc of Log		x Pur & Con Off
7	BUILD boxes for shipping radl material(30)	15 FEB	5 MAR	HPD, Ofc of Log		x Post Engr
8	PACK all radl sources for disposal of transfer(approx803)	5 MAR	5 MAY	HPD	x	
9	OBTAIN disposition instructions from EA	5 MAY	25 MAY-5-JUN-	HPD, Edg Ars		x routine commo support
10	~~DISPOSE of alpha plates(ship to ORNL)~~		~~10 JUN~~	HPD, Ofc of Log		x Transp
11	DISPOSE of Navy-owned sources ship to licensed Navy activity	1 APR	10 MAY 15-JUN-	HPD,NTU,Ofc of Log		x Transp
12	SHIP all other radl sources (total # is 803)	5 JUN	31 MAY 25 JUN	HPD, Ofc of Log		x Transp
13	FINALIZE ADP exposure records at FtMcCl		24 30 JUN	HPD		x MISO , MEDDAC
14	FINALIZE other rad records and transfer to records holding area		24 30 JUN	HPD; Admin		x Rec Mgmt Off
15	DISPOSE of radl waste generated by clean-up decon (includes requesting instr, disposal)	1 JUN	24 30 JUN	HPD, Ofc of Log		x Transp
16	CLEARANCE by on-site inspection/survey		1 30 JUN	HPD, USAEHA		x Engr, Safety Off
17	ESTABLISH HPD capability at APG		1 JUL	HPD, higher HQ, AEC new HP Officer needed	x	

10 JAN 73 | Updated 7 MAR 73 |

****
ROUTINE * U N C L A S S I F I E D *
****
PT 00441 O73 003213

RTTUZYUW RUEDPOA5708 0722306-UUUU--RUCLBWA.

3-43

ZNR UUUUU

P 1322292 MAR 73

FM CORCONARC FT MONROE VA //ATLOG-MAT-EQ//

TO RUCLHTA/CDRUSATHREE FT MCPHERSON GA //AJA9L-SH-M//

INFO RUCLDIA/CDR FT GORDON GA //AJGSD//

RUCLBWA/CDR FT MCCLELLAN AL //AJMCL-H//

1- Health
1- Security
1- Secy
1- Civ + Tech

BT

UNCLAS

SUBJ: STAFF VISIT TO FT MCPHERSON, FT GORDON AND FT MCCLELLAN

A. COMARC ATLOG-MAT-EQ 052314Z MAR 73 (U)

1. CHANGE DATES LISTED IN PARA 1, REF MSG, AS INDICATED:

A. FT MCCLELLAN, 19 MAR TO 22 MAR 73.

B. FT GORDON, 22 MAR 73 ONLY.

C. FT MCPHERSON AND HQ, THIRD US ARMY, 23 MAR 73.

2. STAFF VISIT TO FT MCCLELLAN WILL BE COMBINED WITH CONARC LOGISTICAL REVIEW TEAM VISIT, 19 MAR THROUGH 22 MAR 73. RADIOLOGICAL MATTERS WILL BE HANDLED SEPARATELY BY LOCAL COORDINATION WITH INSTALLATION RPO.

BT

#5708

****
ROUTINE * U N C L A S S I F I E D *
****

ROUTING AND TRANSMITTAL SLIP

1 TO: ~~ASST COMDT~~ 27 Mar	INITIALS: S	ACTION: CIRCULATE
	DATE	COORDINATION
2 COMDT	INITIALS	FILE
	DATE	INFORMATION: X
3 return to HEALTH PHYSICS	INITIALS	NOTE AND RETURN
	DATE	PER CONVERSATION
4	INITIALS	SEE ME
	DATE	SIGNATURE

REMARKS: THIS JUST ARRIVED.

There is one surprise* here — AEHA has not previously indicated they want us to get a DA PERMIT or AEC LICENSE for the CONTAMINATION!

* see para 1 of ABSTRACT + para 9 g, p 7. MAJ Wickstrom foresees no real problem with this, just an unexpected twist.

EMS

Do NOT use this form as a RECORD of approvals, concurrences, disapprovals, clearances, and similar actions

FROM: CHARLES J. WICKSTROM
MAJOR, CMLC
C, HEALTH PHYSICS DIV

DATE: 27MAR

PHONE: 3937

OPTIONAL FORM 41
AUGUST 1967
GSA FPMR (41CFR) 100-11.206

* GPO : 1969 OF—352-829 5041-101

ENG-117-73

JOB ORDER REQUEST *(Repairs and Utilities)*
For use of this form see DA Pam 420-6; the proponent agency is Office of the Chief of Engineers.

1. SERIAL NUMBER: 2553

SECTION I

TO: POST ENGINEER *(In triplicate)*

2. DATE: 16 Feb 73

3. SITE OF WORK *(Room and building number or other designation)*
Bldg 3180, 3181, 3182, 3192 and adjacent fenced area.

4. THE FOLLOWING SERVICES ARE REQUESTED. ACCOMPLISHMENT IS CONSIDERED NECESSARY AND IN THE BEST INTERESTS OF THE GOVERNMENT *(Describe in detail. Attach sketch.)*
This is a general open-ended request to cover all DFAE support for the Radiological Decontamination Plan (attached). Further details will be provided by phone within three (3) days notice (except in event of emergency).

5. STATEMENT OF WHY WORK IS NECESSARY
Departure of USACMLCS from Fort McClellan requires that radiological areas must be decontaminated. The plan has conceptual AEHA and AEC approval.

6. NAME, ORGANIZATION AND TELEPHONE NUMBER OF PERSON TO CALL FOR ADDITIONAL INFORMATION
MAJ Wickstrom/3937
C, Health Phy Div, USACMLCS

7. SIGNATURE OF REQUESTOR

8. TYPED NAME, ORGANIZATION AND TELEPHONE NO. OF REQUESTOR: GEORGE A. NUGGES, JR.; Director of Logistics, USACMLCS

SECTION II

TO: INSTALLATION COMMANDER *(Original only)*

9. DATE

10. RECOMMENDED ACTION
☑ APPROVAL
☐ DISAPPROVAL

11. ESTIMATED COST
$

12. ESTIMATED COMPLETION DATE

13. JOB ORDER NUMBER: I-2553(73)
I-2670(73)

14. ACTIVITY CODE: M1CC0F
K6LB09-F-A
K6PB0PX6TE

15. REMARKS

for E. C. Jones
SIGNATURE OF POST ENGINEER

SECTION III

TO: POST ENGINEER

16. DATE

17. ACCOMPLISHMENT OF WORK
☐ APPROVED ☐ DISAPPROVED

SIGNATURE OF INSTALLATION COMMANDER

SECTION IV

TO: REQUESTING OFFICER
Attention is invited to Section III.

18. DATE

DA FORM 1 JUL 63 2701

REPLACES DA FORM 5-27, 1 AUG 61, EXISTING SUPPLIES OF WHICH WILL BE ISSUED AND USED UNTIL 1 JUL 64, UNLESS SOONER EXHAUSTED.

DISPOSITION ORM

For use of this form, see AR 340-15; the proponent agency is The Adjutant General's Office.

REFERENCE OR OFFICE SYMBOL	SUBJECT
ATSCH-HP	Special Support Request (Non-POI - Personnel, Vehicles, Equipment)

TO: CO, Trp Comd, USACMLCS
ATTN: S-3

FROM: C, Health Phy Div USACMLCS

DATE: 16 Feb 73 EMT 1

MAJ Wickstrom/kh/3937

1. Request the following special support be provided as indicated below:

a. Type of support required:

(1) Vehicle by type See attached Decontamination Task List
w/Driver Yes ; w/o Driver No

(2) Personnel See attached Decon Task List (details to be 4-man unless otherwise specified.

(3) Special equipment See attached Decon Task List.

(4) Other (specify) See attached Decon Task List.

b. Purpose Radiological decontamination

c. Date and time support required 0800 on dates required

d. Estimate of length of time required See attached Decon Task List

e. Report to whom? MAJ Wickstrom or SSG Truffa

f. Report where? Bldg 3181, Room 217

g. Requesting users name and phone ext MAJ Wickstrom/3937

h. Special instructions This is a general open-ended request to cover all School Bn support for the Radiological Decontamination Plan. Further details will be provided by phone with 3-days notice (except in event of emergency).

2. Requests for special support are required to reach S-3, Troop Command in duplicate 48 hours in advance. Requests may be handwritten, but must be signed by the department director or separate office chief. Emergency requests may be telephoned to S-3, Troop Command with a follow-up written request.

CHARLES J. WICKSTROM
~~MAJ, CmlC~~
Chief, Health Physics Division

Department Director/Office Chief

DA FORM 1 FEB 62 2496 REPLACES DD FORM 96, EXISTING SUPPLIES OF WHICH WILL BE ISSUED AND USED UNTIL 1 FEB 63 UNLESS SOONER EXHAUSTED.

DECONTAMINATION TASK LIST

Area		Task	Support Required By	DATE Beg	End
Bldg 3192 (& liquid rad waste system)	1.	Install locking device (key type) on N. ext door.	DFAE	now	20 Mar
	2.	Make barrier to separate hot cell from bldg maintenance service area:	DFAE	now	13 Mar
	3.	Install barrier.	DFAE		13 Mar
	4.	Make "false-wall" barrier to close off hot cell controls from classroom.	DFAE	now	20 Mar
	5.	Install "false-wall".	DFAE	20 Mar	30 Mar
	6.	Make exterior warning signs for buried "hot" tanks and piping.	DFAE	now	13 Mar
	7.	Emplace exterior signs permanently.	DFAE		13 Mar
	8.	Install hasp and staple on metal interior door to classroom,on hot cell side.	DFAE	15 Mar	20 Mar
	9.	Disconnect/disable utilities to bldg except those affecting classroom and maintenance service area and liquid waste pumps (gas, steam, water & electricity).	DFAE	2 Apr	10 Apr
	10.	Install alternate drainage system or solve water accumulation problem.	DFAE	now	9 Mar
	11.	Fill the 5 "hot" drains with waterproof plugs (suggest these be "temporary").	DFAE		9 Mar
	12.	Make interior warning signs for doors to classroom and hot cell, barrier and false wall, and exterior North and West doors.	DFAE	now	6 Apr
	13.	Install interior/exterior signs above and remove existing "HOT CELL FACILITY" sign, and West door signs.	DFAE		9 Apr
	14.	Inspect and repair plumbing in liquid waste control pit.	DFAE	now	30 Apr
	15.	Set up liquid waste valves & pumps for minimum maintenance.	None		30 May
	16.	Spot weld hot cell 17-ton door shut.	DFAE		10 May
	17.	Give keys to bldg to DFAE, RPO, Tng Off as appropriate.	None		24 Jun
	18.	Furnish set of written instructions to Mr. Daniel (RPO) and Mr. Holladay (Eng-Bldgs & Grounds).	None		24 Jun

Decontamination Task List (cont)

Area	Task		Support Required By	DATE Beg	End
Bldg 3182 (Rad Lab W and museum)	19.	Resurvey and mark additional spots using Broken Arrow instruments	Post NAIC Team	now	27 Apr
	20.	Chip up contaminated spots using cold chisel and hammer (tile & concrete surface) with wet rag dust cover.	School Bn	30 Apr	11 May
	21.	Scrape and file down metal door frame in museum (to be vacant 31 Mar), or if necessary cut away lower frame and chip concrete below it. Chip concrete in musuem, as in above item.	School Bn (possibly DFAE)	2 Apr	13 Apr
	22.	Ship out Navy sources stored in Lab W. (Resurvey and decon if required.)	NAVTRAU School Bn (detail if decon is required 17-25 May)	16 May	23 May
Bldg 3180 (& raised pad)	23.	Break up raised concrete slab down to level of surrounding concrete surface, further if necessary to remove contamination. Use air hammer/wet mop cover technique (low-dust requirement), wear respirators. Transfer concrete to 55-gal waste drums. Wrecker required to move and wipe test 3-ton pig. Slab has 211 sq ft and is 10" thick. Plan to finish in one day to avoid chance of rain which might spread contamination. Bring waterproof pad cover in case of rain.	DFAE(break-up, cover, respirators) School Bn (wrecker, transfer detail, mops & buckets)	now	25 Mar
	24.	Cut metal sleeve of exterior well off and fill with concrete (approx 7" x 8') OR remove sleeve when breaking up adjoining concrete pad, and fill well with concrete. Well must not accumulate rain water.	DFAE	25 Mar	6 Apr
	25.	Move all sources out of bldg and survey for fixed and removable contamination. If more than one day is needed, move sources to the 3181 vault.	Tech Gp	28 Mar	2 Apr
	26.	Decon 3180 by surface removal (hammer and chisel, air hammer, sand-blasting) as required). Demolish bldg if necessary. Fill interior well with concrete (approx 36" x 8'.).	DFAE(standby air hammer, sandblaster, to pour concrete) School Bn(hammer & chisel detail)	2 Apr	1 May

Decontamination Task List (cont)

Area	Task		Support Required By	DATE Beg	End
Bldg 3180 (& raised pad) (cont)	27.	Prepare 1-pg summary for RPO's close-out file	None		2 May
	28.	Turn in 3-ton pig (salvage).	School Bn (wrecker & 2½-ton truck)	25 Mar	10 Apr
	29.	Request instructions for disposal of waste generated by decon operations.	None		22 Apr
Rad Waste Storage Area (fenced, behind Bldg 3182)	30.	Load drums of waste onto trucks (commercial).	School Bn (fork lift)	22 May	24 May
	31.	Pack all loose contaminated items into drums.	School Bn (fork lift) (2-man detail)	14 May	21 May
	32.	Return locker to Mr. Mosher (DIO), dispose of contents as appropriate.	School Bn(2½-ton truck, 2-man detail)		21 May
	33.	Survey fenced area after waste is removed and decon by soil/concrete break-up and removal if necessary to reduce to limits.	School Bn (2½-ton truck, transfer detail, mops, buckets, all on standby) DFAE(air hammer on standby)	24 May	30 May
	34.	Dispose of any new waste generated per instructions received. Then remove gate lock.	School Bn(truck & detail)		31 May
Bldg 3181 (Main School Bldg)	35.	Remove waste from last Lab T exercise for disposal.	Tech Gp		1 Mar
	36.	Survey Lab T and Isotope Lab before dismantling.	Tech Gp	23 Feb	28 Feb
	37.	Survey hood filter when hood is dismantled.	Tech Gp	30 Apr	18 May
	38.	Remove for disposal sources not to make the trip. Pack all sources which are going to be shipped.	Tech Gp	30 Apr	11 May
	39.	Make escorted shipment of all sources going to Aberdeen PG. Leave with Mr. Wright.	Tech Gp	14 May	18 May
	40.	Survey 3181 vault for fixed and removable contamination	Tech Gp	21 May	23 May
	41.	Decontaminate vault by surface removal (hammer & chisel air hammer, with wet rag cover) as required.	Tech Gp(keys) School Bn (hammer & chisel detail, mop & buckets, all on standby) DFAE(air hammer standby)	22 May	30 May

Decontamination Task List (cont)

Area	Task		Support Required BY	DATE Beg	DATE End
Bldg 3181 (cont)	42.	Dispose of any new waste generated in accordance with instructions.	School Bn (standby)		31 May
Bromine Field	43.	Dump to sanitary sewerage solution from last Bromine Field exercise.	None		23 May
	44.	Inspect and repair plumbing as necessary for use of pad as wash rack.	DFAE	23 May	24 Jun
	45.	Set valving for minimum maintenance.	None		23 May
	46.	Ship 11F3A device to appropriate new location. Clear field of nonpermanent items. Move airframe, APC, radar set, 3/4-ton truck to salvage yard.	DFAE (crane, low-boy) School Bn (transfer detail)	24 Apr	31 May
	47.	Furnish set of instructions to DFAE (Bldgs & Grounds) with info copy to RPO's Close-out file.	None		30 May
	48.	Remove locks on all 3 gates to field.	None		23 May
Alpha Field	49.	Remove all plates by unscrewing and check pedestals for contamination.	School Bn (4-man detail)	25 Apr	27 Apr
	50.	Wipe plates to check for contamination.	None	27 Apr	1 May
	51.	Dig up all pedestals.	School Bn (pick & shovel detail)	30 Apr	1 May
	52.	Survey unplowed field.	None		7 May
	53.	Plow and disc field to 6" depth.	DFAE	8 May	11 May
	54.	Survey plowed field.	None		14 May
	55.	Transport uncontaminated pedestals to rock crusher and crush using 3/4" screen, leave for ordinary fill.	DFAE(crusher, dump truck) School Bn (transfer detail)	1 May	2 May
	56.	Furnish 1-pg summary for RPO's close-out folder.	None		15 May
	57.	Remove gate lock.	None		15 May
Rideout Field	58.	Furnish 1-pg summary for RPO's close-out folder. Also include documentation received from MAJ Anderson.	None		15 Mar

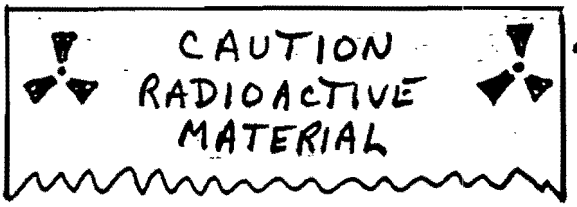
Decontamination Task List (cont)

Area	Task		Support Required By	DATE Beg	DATE End
Iron Mountain (Rattlesnake Gulch)	59.	Decon site by soil removal until there are no spots above limits. Put filled drums in waste storage yard.	School Bn (2 jeeps w/¼-ton trailers, detail to load and move drums, pick & shovel)	now	25 Mar
	60.	Prepare a 1-pg summary for RPO's close-out folder. Also include the report from Health Physics file.	None		30 Mar
Old Radium Vault(Bldg 812½)	61.	Prepare 1-pg summary for RPO's close-out folder.	None		15 Mar

SIGNS:

All signs IAW Ft McClellan Reg 420-5, and AR 385-30 para 3-1Q, 3-4, 3-5, FIG 3-1.

All 8 signs will be lettered at the TOP as follows:



← radiation trefoil magenta on yellow background

← letters in black on yellow background

Below this, on EACH sign, will be lettered explanatory material, shown below

SIGN #1
SIGN #2
} EXTERIOR SIGNS. LETTER ON BOTH SIDES.

BURIED RADIATION HAZARD
Tanks and connecting pipes contaminated with Cobalt-60 40 mR/hr in Feb 73 three to eleven feet below surface between signs. No digging.

LOCATIONS:
One by 3192 driveway near building (on post)
One by Waste Valve pit on 3192 side (on post)

(Two posts required)

SIGN #3 EXTERIOR SIGN. ONE SIDED.

RADIATION HAZARD
Portions of interior of this half of building contaminated with Cobalt-60. Enter this door only with permission from Ft. McClellan Radiological Protection Officer phone 4723.

LOCATION:
Affix to North door, 3192 (Metal door)

Encl 4

SIGN #4 INTERIOR SIGN. ONE SIDED.

WARNING

Do not remove or penetrate this barrier, as this would allow access to the hot cell portion of building, which contains radioactive contamination.

LOCATION:

Affix to "false-wall" barrier to be placed in 3192. (Wood barrier)

SIGN #5 INTERIOR SIGN. ONE SIDED.

RADIATION HAZARD

Interior of hot cell is contaminated with Cobalt-60 65 mR/hr maximum in Feb 73. Do not attempt to enter.

LOCATION:

Affix to hot cell 17-ton door, Bldg 3192. (concrete & steel door)

SIGN #6 INTERIOR SIGN. ONE SIDED.

RADIATION HAZARD

Hot cell behind this barrier and some overhead ducts are contaminated with Cobalt-60 65 mR/hr maximum in Feb 73. Do not cross this barrier or work overhead without a radiation meter and approval from Ft McClellan Radiological Protection Officer phone 4723.

LOCATION:

Affix to barrier to be placed in hot cell end of building 3192. (Wood barrier)

SIGN # 7 INTERIOR SIGN. ONE SIDED.

WARNING
This door is locked from the other side to prevent access to radioactively contaminated areas within the building. Do not attempt to enter.

LOCATION :
Affix to door between classroom and hot cell, on classroom side. (3192)
(Metal louvered door)

SIGN #8 EXTERIOR SIGN. ONE SIDED.

IN CASE OF EMERGENCY
During Duty Hours Call:
Ft McClellan Safety Office
phone 4723
After Duty Hours Call:
Staff Duty Officer
phone 3821
THIS IS BUILDING 3192

LOCATION :
Affix to West door, 3192.
(Metal door)

RADIATION SPECIAL STUDY NO. 43-041-73
EVALUATION OF RADIOACTIVE CONTAMINATION
US ARMY CHEMICAL CENTER AND SCHOOL
FORT McCLELLAN, ALABAMA 36201
5 - 7 FEBRUARY 1973

US ARMY
ENVIRONMENTAL HYGIENE AGENCY
ABERDEEN PROVING GROUND, MD 21010

DEPARTMENT OF THE ARMY
U.S. ARMY ENVIRONMENTAL HYGIENE AGENCY
ABERDEEN PROVING GROUND, MD 21010

USAEHA-RH

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EVALUATION OF RADIOACTIVE CONTAMINATION
US ARMY CHEMICAL CENTER AND SCHOOL
FORT McCLELLAN, ALABAMA 36201
5 - 7 FEBRUARY 1973

ABSTRACT

This radiation special study was made to assist in determining decontamination procedures and establish radioactive contamination limits. A review of the recommendations indicated that there is a requirement to:

a. Provide the Post Radiological Protection Officer with all documentation and radiation survey reports of all buildings and other areas where radioactive materials were used, stored or buried.

b. Provide appropriate protection for all workers to include personnel monitoring devices, as required.

c. Dispose of all unwanted radioactive or contaminated material in accordance with AR 755-15 and TM 3-261.

d. Transport all radioactive materials in accordance with AR 55-55 and TM 55-315.

e. Provide necessary radiation warning signs as required by AR 385-30.

f. Obtain an Atomic Energy Commission license or Department of the Army authorization to cover the Cobalt-60 contamination in the hot cell and the underground liquid waste tanks and other areas which can not be decontaminated to acceptable levels.

DEPARTMENT OF THE ARMY
U. S. ARMY ENVIRONMENTAL HYGIENE AGENCY
ABERDEEN PROVING GROUND, MD 21010

USAEHA-RH

RADIATION SPECIAL STUDY NO. 43-041-73
EVALUATION OF RADIOACTIVE CONTAMINATION
US ARMY CHEMICAL CENTER AND SCHOOL
FORT McCLELLAN, ALABAMA 36201
5 - 7 FEBRUARY 1973

1. REFERENCES.

a. AR 40-5, Preventive Medicine, 13 March 1969.

b. NCRP Report 8, Control and Removal of Radioactive Contamination in Laboratories (NBS Handbook 48), 15 December 1951.

c. NCRP Report 10, Radiological Monitoring Methods and Instruments (NBS Handbook 51), 7 April 1952.

d. NCRP Report 30, Safe Handling of Radioactive Materials (NBS Handbook 92), 9 March 1964.

e. USAEC Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for ~~Byproduct,~~ Source, or Special Nuclear Material, 22 April 1970.

f. TWX, R162010Z, January 1973, subject: Radiological Decontamination Limit Guidance.

g. Letter, USAEHA-RH, this Agency, 30 January 1973, subject: Liaison Visit USACMLCS, Ft McClellan, Alabama.

2. PURPOSE. At the request of the Commander, US Army School/Training Center (USASTC), Ft McClellan, this special study was made to assist in determining decontamination procedures and establish radioactive contamination limits.

3. BACKGROUND. An entrance interview was held with the Commandant of US Army Chemical Center and School (USACMLCS) and selected members of his staff. An exit briefing was held with the Deputy Post Commander, the Assistant Commandant of USACMLCS and selected staff members.

4. RADIOACTIVE-CONTAMINATION GUIDE. The following radioactive contamination guides have been taken from reference 1e above and should be used in accomplishing the decontamination operation and survey of premises and equipment prior to abandonment or release for unrestricted use.

SURFACE CONTAMINATION GUIDANCE

Radionuclides*	Total †	Removable
Natural ^{235}U, ^{238}U, Th-Natural, ^{232}Th, and associated decay (daughter) products	Max 25,000 dpm α/100 cm^2 Av 5,000 dpm α/100 cm^2	1000 dpm α/100 cm^2
Other radionuclides which decay by alpha emission or by spontaneous fission	Max 2,500 dpm α/100 cm^2 Av 500 dpm α/100 cm^2	100 dpm α/100 cm^2
Beta-gamma emitting radionuclide with decay modes other than alpha emission or spontaneous fission	Max 1.0 mrad/hr at 1 cm †† Av 0.2 mrad/hr at 1 cm ††	1000 dpm β-γ/100 cm^2

* When surface contamination by both alpha and beta-gamma emitting radionuclides exists, the limits established for alpha and beta-gamma emitting radionuclides shall apply independently.

† Measurements of total contamination shall not be averaged over more than 10 square meters. For objects of less surface area, the average shall be derived for each such object.

†† Measured through not more than 7 milligrams per square centimeters of total absorber.

5. INSTRUMENTATION.

a. Eberline, Model 520, portable beta-gamma survey instrument with HP-177B GM probe.

b. Eberline, Model 520, portable beta-gamma survey instrument with HP-180-A GM probe.

c. Teletecter, Model 6112, with 30 mg/cm^2 beta window.

d. Eberline, Model PRM-5-3, survey meter with FIDLER probe, components of Broken Arrow Response Kit.

e. All instruments were calibrated or checked daily with a certified Cobalt-60 source.

6. FINDINGS AND PROCEDURES. Radiation surveys were made of all buildings and other areas which had been identified by the Radiological Protection Officer (RPO) at USACMLCS as to where radioactive materials had been used or stored. Also surveys were made of two old radioactive material burial grounds.

a. Building 3181, Rooms 35, 36 and Isotope Laboratory Storage Vault

(1) Only a visual survey was made, because these areas were still in use.

(2) After all radioactive materials are removed, survey the area and decontaminate to the levels given in paragraph 4 above, if required.

(3) Prior to removal of fume hood decontaminate to the levels given in paragraph 4, above, if required, and dispose of the absolute filter as radioactive waste.

b. Building 3182, Museum (Classroom V), Rad Laboratory W, Hallway, and Instrument Repair

(1) A survey was made of the entire building. Specific areas of contamination are identified on Schematic, Appendix A. No removable/transferable contamination was identified by wipe tests; therefore, the contamination is fixed.

(2) Decontaminate to the levels given in paragraph 4 above, dispose of waste as radioactive waste. See Appendix B for decontamination procedures.

c. Building 3180, Radioactive Material Storage Vault

(1) Only a visual survey was made, because the building was still being used as a radioactive material storage vault.

(2) Decontaminate to the levels given in paragraph 4 above, dispose of waste as radioactive waste. See Appendix B for decontamination procedures. If required, demolish building and dispose of all materials as radioactive waste.

d. Concrete Pad Around Building 3180

(1) Break up concrete pad and remove entirely. Dispose of as radioactive waste.

(2) Decontaminate the area surrounding the concrete pad to the levels given in paragraph 4 above. See Appendix B for decontamination procedures.

e. Radioactive Waste Storage Well Near Building 3180

(1) Cut off steel cylinder level with the concrete surface and fill with concrete. Do not attempt to decontaminate.

(2) Dispose of cover and other material as radioactive waste.

f. Alpha Field

(1) Remove all uranium plates. Either retain for transfer to Aberdeen Proving Ground or dispose of as radioactive waste.

(2) Survey all concrete pedestals, if not above levels given in paragraph 4 above, then dispose of the pedestals in the normal manner. If contaminated, decontaminate to the levels given in paragraph 4 above, or dispose of pedestals as radioactive waste.

(3) After removal of all uranium plates and concrete pedestals plow soil to 6 inch depth and reseed after final survey.

g. Fenced Area Behind Building 3182

(1) Dispose of all stored radioactive material and all other radioactive contaminated items as radioactive waste.

(2) Remove all soil that is contaminated to concentrations greater than 2×10^{-3} μCi/gm and dispose of soil as radioactive waste. See Appendix C for concentrations of soil/core samples.

(3) Decontaminate all areas to the levels given in paragraph 4 above.

h. Bromine Field

(1) Allow to decay to within acceptable levels given in paragraph 4 above. Survey prior to release for unrestricted use.

(2) Dispose of all liquid waste via sanitary sewage insuring that the concentration does not exceed 4×10^{-5} μCi/ml. (Normally the liquid waste is held about 30 days to allow for physical decay prior to release to the sanitary sewer.)

(3) It is not necessary to remove hold-up tanks.

i. Rideout Field

(1) Approximately 10 percent of the actuators were surveyed with no evidence of radioactive contamination.

(2) A survey of the old burial grounds indicated that all levels were within the levels given in paragraph 4 above. See Appendix C for concentration of soil/core samples.

j. Iron Mountain (Rattlesnake Gulch)

(1) Several hot-spots were identified in the old burial grounds. One being 2.5 mR/hr at 1 cm above the surface.

(2) Survey entire area and decontaminate to the levels given in paragraph 4 above.

(3) Dispose of all contaminated soil as radioactive waste.

k. Building T-812½ (Former Radium Storage Vault). A survey of the building indicated that all radiation levels were within the limits given in paragraph 4 above.

l. Building 3192 (Hot Cell Facility)

(1) A survey was conducted inside and outside the hot cell. See Appendixes A and C for radiation levels.

(2) Seal off the hot cell and electrically disconnect all electrical power to the hot cell.

(3) Do not attempt to decontaminate the hot cell.

(4) Construct a temporary wall across the front of the hot cell to prevent use of hot cell manipulators.

(5) Install drain plugs in all five drains.

(6) Provide an alternate means for removing noncontaminated water from the building.

(7) Erect appropriate warning signs.

(8) The Post RPO shall control access to maintenance area of building.

m. Drain System From Building 3192 (Hot Liquid Waste System)

(1) The maximum exposure rate at the bottom of the 100 gallon liquid waste tank was 40 mR/hr.

(2) Do not remove the underground 100 gallon and 1500 gallon liquid waste tanks.

(3) Erect appropriate warning signs.

(4) Inform the Post RPO and Post Engineers on required maintenance.

7. DISCUSSION.

a. The following principles should be employed during radioactive decontamination:

(1) Locate and identify the magnitude of the radioactive contamination using a G-M survey instrument having a total absorption of not more than 7 mg/cm^2.

(2) Mark all contaminated areas prior to decontamination.

(3) Work from the outside toward the center of the contaminated area.

(4) Use protective clothing to include respirators as required. The respiratory protective equipment provided should be commensurate with the airborne hazard.

(5) Handle run-off solutions and equipment as radioactively contaminated until a radiation survey indicates otherwise.

(6) Conduct periodic surveys during decontamination operations to control the spread of radioactive contamination. Monitor all workmen for possible contamination prior to leaving the work area.

(7) Use wet methods whenever possible to minimize the radioactive contamination from becoming airborne and spreading to other areas.

(8) Start with the least severe decontamination procedure first.

b. The results of laboratory analysis identified the radioactive contamination as Cobalt-60.

c. Generally, surfaces that have been contaminated with Cobalt-60 can be decontaminated with a detergent or a complexing solution followed by treatment with mineral acids then followed by soap and water.

8. CONCLUSION. The survey revealed levels of radioactive contamination to be above acceptable limits in specific locations for which recommendations are made.

9. RECOMMENDATIONS.

a. Provide the Post RPO with all documentation and radiation surveys of all buildings and other areas where radioactive materials were used, stored or buried.

b. Provide appropriate protection for all workers to include personnel monitoring devices as required by AR 40-14, 29 September 1966.

c. Dispose of all unwanted radioactive material in accordance with AR 755-15, 4 November 1966 and TM 3-261, 20 May 1966.

d. Transport all radioactive materials in accordance with AR 55-55, 12 November 1970 and TM 55-315, 14 January 1971.

e. Provide necessary warning signs as required by AR 385-30, 18 November 1971 and Military Standard 1458.

f. Use the decontamination procedures that are outlined in NCRP Report 8; TM 3-220, 22 November 1967; and Appendix B.

g. Obtain an Atomic Energy Commission license or a Department of the Army authorization to cover the Cobalt-60 contamination in the hot cell and the underground liquid waste tanks and other areas which cannot be decontaminated to the levels given in paragraph 4 above.

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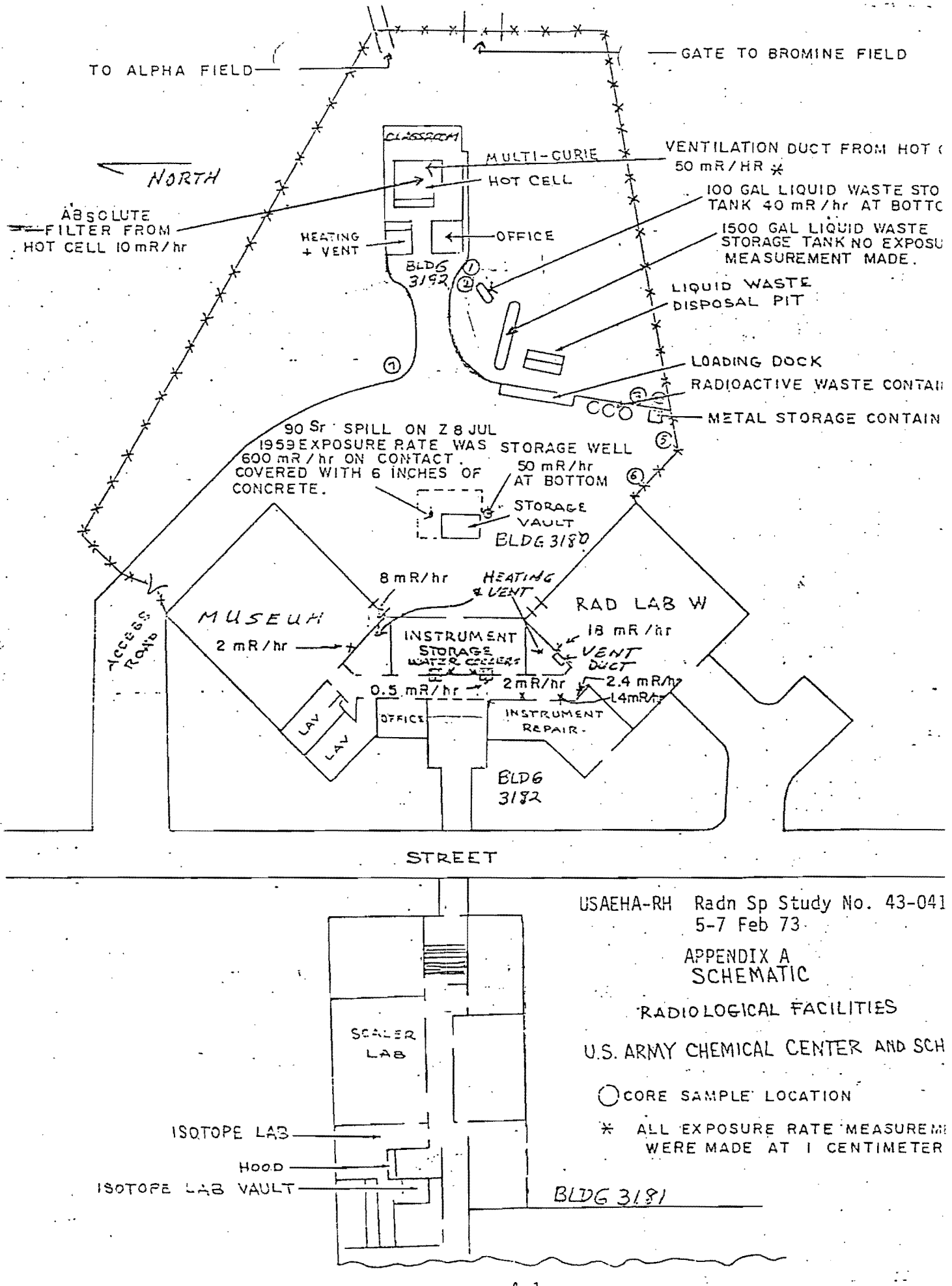

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APPENDIX A
SCHEMATIC

RADIOLOGICAL FACILITIES

U.S. ARMY CHEMICAL CENTER AND SCH

○ CORE SAMPLE LOCATION

* ALL EXPOSURE RATE MEASUREM WERE MADE AT 1 CENTIMETER

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APPENDIX B

DECONTAMINATION PROCEDURES

Procedures, equipment, and additives	Techniques and surfaces	Advantages	Limitations
1. Vacuuming, using appropriate-capacity industrial-type vacuum cleaner plus suitable exhaust filter. No additives	Conventional procedure. Applies to almost any surface covered by dry loose contaminant	Retains residue and filters exhaust, reducing aerosols. Often the first step	Applicable only to dry loose contaminant. Face masks advisable. Slow rate, therefore requires increased manpower and equipment for large areas
2. Hosing, using hose and nozzle. No additives	Progress from low- to high-contamination areas taking advantage of available drainage. Applies to building and floor materials	Inexpensive procedure for gross decontamination. Minimum protective clothing	Consumes large volumes of water. Runoff must be controlled
3. Hosing—hand scrubbing—hosing, using hose and nozzle plus floor brushes and mop buckets. Additives: detergents and complexing agents	Hose, progressing from low- to high-contamination areas taking advantage of available drainage, then hand scrub with solution containing 1% additive, and follow with hose flush. Applies to building materials	Effective procedure on dirty and greasy surfaces. Additives easily stored, nontoxic, noncorrosive, minimum protective clothing	Rate slower than (2). More manpower than (2). Additives use up storage space and not always available
4. Hot-liquid-jet cleaning—hand scrubbing—hosing, using steam injector, lance, floor brushes and hose, boots and face shields. Additives: detergents and complexing agents	Educt solution (containing 20% additive) with injector and scrub simultaneously, then follow with hose flush. Applies to building and floor materials	Same as (3) except for reduction in runoff	Requires special equipment and steam source. Otherwise same as (3). Steam introduces personnel hazard. Moderate protective clothing required

5. Steam cleaning, using hose and steam lance, boots and face shields. Additives: detergents and complexing agents	Additives introduced into flow system to produce 1% solution at lance, proceed as in (2). Applies to building and floor materials; major equipment	Reduced runoff, low manpower, otherwise same as (3)	Requires steam source. Rate lower than (2). Additives use up storage space and not always available. Steam introduces personnel hazard. Moderate protective clothing required
6. Stripping—hosing, using drum pump or spray pot, air and liquid hose, lance, hose and nozzle, protective hoods with air lines, boots and rubber gloves. Additives: Sodium, calcium, or potassium hydroxide containing thickening agents such as starch	Spray 10 to 20% caustic solution containing thickening agent 24 hr in advance of hose flush, proceed as in (2). Applies to painted surfaces	Highly effective, removes paint down to base surface. Faster than sandblasting	Requires special equipment and maximum protective clothing. Hazardous to personnel. Storage and availability problems. Will not remove rust. Cannot be used on aluminum and magnesium surfaces
7. Paint stripping and hosing, using same equipment as (6) and (8). Additive: cresylic acid	Same as (6) and (8) except standing time not established. Applies to painted surfaces	Same as (6) and (8). Removes certain paints not affected by caustics. Can be used on aluminum and magnesium surfaces	Additive more expensive than caustic, otherwise same as (6)
8. Paint stripping—steam cleaning, using equipment same as (6) except steam hose and lance replace firehose. Additives same as (6)	Spray caustic 24 hr in advance of steam cleaning. Applies to painted surfaces	Reduced runoff. Otherwise same as (6)	Same as (6)
9. Degreasing—hand scrubbing —rinsing, using spray rig or hand applicators, scrub brushes and water hose or steam line. Additives: emulsifying type degreasers	Apply degreaser, scrub and rinse (before compound dries) with water detergent solution or steam. Applies to machinery, vehicles, etc.	Removes heavy grease, oil, and dirt deposits not affected by detergents	Rate slower than (2). More manpower than (2). Additives use up storage space and not always available

Procedures, equipment, and additives	Techniques and surfaces	Advantages	Limitations
10. Dipping—rinsing, using crane or hoist, dip tank and rinse tank, or hosing or steaming facility. Additives: Same as (6), (7), and (9)	Immerse in suitable additive until grease or paint has been removed and rinse. Applies to portable gear such as pumps, engines, etc.	May be handled remotely, otherwise same as (6), (7), (8), and (9). Solutions usually reusable over many applications	Requires heavy equipment and therefore increased manpower. Limits size of objects decontaminated
11. Rust removing—rinsing, using swabs, scrub brushes, and water hose or steam line. Additives: inhibited hydrochloric acid	Coat rust areas with remover, scrub and rinse. Applies to rusty surfaces	Replaces need for more expensive sandblasting in certain instances	Hazardous, slow, not so thorough as sandblasting. Requires maximum protective clothing
12. Sandblasting, using sandblasting machine, air and sand hose, blast hoods with air lines. Additives: Water may be introduced to reduce aerosols	A standard industrial procedure. Applies to building material such as metal, wood, stone, concrete, etc. Painted and/or rusty surfaces	Effective, removes rust as well as paint	Extremely slow, expensive, creates aerosol hazard. Maximum protective clothing
13. Vacuum blasting using vacuum blasting machine. Additives: special abrasive shot	Conventional procedure. Applies to building material such as metal, wood, stone, concrete, etc. Painted and/or rusty surfaces	Vacuums residue, reducing aerosols, otherwise same as (2). Recycles and reuses abrasive	Slow, awkward for areas other than horizontal. Face masks advisable. Auxiliary exhaust filters required
14. Floor refinishing, using floor resurfacing machines. No additives	Planes off layer of material through action of rotary cutting tools. Applies to wood, concrete, brick, etc.	Only means short of demolition in some cases	Requires follow-up method to retrieve residue. Slow. Surface destructive. Aerosol hazard. Face masks required

APPENDIX C

RESULTS OF WATER, WIPE TESTS, AND CORE SAMPLES
EXPRESSED IN TERMS OF COBALT-60

Sample	Sample Location	Exposure Rate at 1 cm*	Results
Water	Bottom of Filter Element	0.2 mR/hr	4.8×10^{-5} µCi/ml
Wipe	Tray in Hot Cell		4,776 dpm/100 cm^2
Wipe	Mirror in Hot Cell		2,386 dpm/100 cm^2
Wipe	Floor of Hot Cell		2,043 dpm/100 cm^2
Wipe	Storage Well Plug in Hot Cell		386 dpm/100 cm^2
Wipe	Horizontal Surface of Crane in Hot Cell		160,257 dpm/100 cm^2
Wipe	Bearings of Crane in Hot Cell		19,271 dpm/100 cm^2
Wipe	Light Fixtures in Hot Cell		12,286 dpm/100 cm^2
Wipe	Left and Right Movement Motor in Hot Cell		558,433 dpm/100 cm^2
Wipe	Electrical Junction Box Above Manipulators in Hot Cell		55,357 dpm/100 cm^2
Wipe	Electrical Box Over Tray Table in Hot Cell		220,195 dpm/100 cm^2
Wipe	Drain Under Shield Door for Hot Cell		28,357 dpm/100 cm^2
Wipe	Ledge Above Hot Cell Shield Door		771 dpm/100 cm^2
Wipe	Exhaust Duct, First Bend on Top of Hot Cell		50,391 dpm/100 cm^2
Wipe	Top of Hot Cell		1,510 dpm/100 cm^2
Wipe	Duct, Central Entrance on Top of Hot Cell		3,757 dpm/100 cm^2
Wipe	Around Exhaust Filter of Hot Cell		44,124 dpm/100 cm^2
Wipe	Top of Hot Cell Shield Door		73,724 dpm/100 cm^2
Wipe	Air Vent of Instrument Repair Lab, 1st Vent North of Lab Door, Bldg 3182		90 dpm/100 cm^2
Wipe	Lab W Floor Under Large Vent	2.5 mR/hr	100 dpm/100 cm^2
Wipe	Floor of Old Radium Storage Vault	0.05 mR/hr	228 dpm/100 cm^2

Sample	Sample Location	Exposure Rate at 1 cm*	Results
Core 1† (Composite)	6 inches SW of Concrete Strip to Bldg 3192 over Drain Pipe to Underground 100 gallon Waste Tank	2 mR/hr	3.3×10^{-6} µCi/gm
Core 2 (Composite)	30 inches NE of Air Vent of Underground 100 gallon Waste Tank	3 mR/hr	5.6×10^{-4} µCi/gm
Core 3 (Composite)	3 inches Directly Behind Metal Storage Container	1.5 mR/hr	1.7×10^{-4} µCi/gm
Core 4	6 inches Right Center Side of Metal Storage Container	1.5 mR/hr	
(Depth 2 in)			2.3×10^{-4} µCi/gm
(Depth 4 in)			1.2×10^{-5} µCi/gm
(Depth 6 in)			1.4×10^{-6} µCi/gm
(Depth 8 in)			1.2×10^{-6} µCi/gm
Core 5	Near Bend in S Side of Fence Between Metal Storage Container and Bldg 3182	0.7 mR/hr	
(Depth 2 in)			5.3×10^{-4} µCi/gm
(Depth 4 in)			7.3×10^{-6} µCi/gm
(Depth 6 in)			1.6×10^{-6} µCi/gm
(Depth 8 in)			1.9×10^{-6} µCi/gm
Core 6	Near Fence Support on S Side Near Bldg 3182	1 mR/hr	
(Depth 2 in)			2.9×10^{-4} µCi/gm
(Depth 4 in)			4.6×10^{-6} µCi/gm
(Depth 6 in)			1.6×10^{-6} µCi/gm
Core 7	3 inches From Concrete Pad, 60 inches From Curb on NW Side of Access Road	0.6 mR/hr	
(Depth 2 in)			2.4×10^{-5} µCi/gm
(Depth 4 in)			6.0×10^{-7} µCi/gm
(Depth 6 in)			1.0×10^{-6} µCi/gm
(Depth 8 in)			1.3×10^{-6} µCi/gm
Core	Old Burial Grounds Rideout Field	0.05 mR/hr	
(Depth 2 in)			6×10^{-7} µCi/gm
(Depth 4 in)			6×10^{-7} µCi/gm
(Depth 6 in)			6×10^{-7} µCi/gm
(Depth 8 in)			6×10^{-7} µCi/gm

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Sample	Sample Location	Exposure Rate at 1 cm*	Results
Core	Rideout Field	0.1 mR/hr	
(Depth 2 in)			1.9×10^{-4} µCi/gm
(Depth 4 in)			6×10^{-7} µCi/gm
(Depth 6 in)			6×10^{-7} µCi/gm
(Depth 8 in)			6×10^{-7} µCi/gm
Core	Rideout Field	0.15 mR/hr	
(Depth 2 in)			2.3×10^{-4} µCi/gm
(Depth 4 in)			2.6×10^{-4} µCi/gm
(Depth 6 in)			6×10^{-7} µCi/gm
(Depth 8 in)			6×10^{-7} µCi/gm

* Exposure rates are those at an accessible surface closest to the sample location.

† Location of core samples (1 thru 7) taken within fenced area behind Building 3182 are identified in Appendix A.

MEMO FOR RECORD

27 Mar 73

SUBJ: Post Close-Out Documentation Contribution

At 1048 hrs today CPT Moore, working for LTC Ryan, was given 6 pages from the USAEHA Report recently received, to give to DPTSEC (LTC Drake's Directorate) for a man named (as I recall) Mr Jones, for close-out plan documentation (Operation EXIT GREEN DRAGON presumably).

Pages furnished: title page
1, 2, 5, C-2, C-3

This report was just received yesterday.

C.J. WICKSTROM
MAJ, CmlC
C, HP Div

ATSCM-SY (29 Mar 73) 1st Ind
SUBJECT: OPLAN EXIT GREEN DRAGON

US Army Chemical Center and School, Fort McClellan, Alabama 36201 4 Apr 73

TO: SEE DISTRIBUTION

1. Your attention is invited to the inclosed letters from MG Warren K. Bennett and COL Josiah A. Wallace, Jr., conveying their appreciation for our support in preparation of OPLAN EXIT GREEN DRAGON.

2. I take pleasure in forwarding these laudatory comments, and I extend my sincere appreciation for your outstanding efforts in preparation of the OPLAN. Your continued support in implementing OPLAN EXIT GREEN DRAGON is solicited and will be greatly appreciated.

Jack Vanderbleek

JACK VANDERBLEEK
Colonel, CmlC
Commandant

1 Incl
nc

DISTRIBUTION:
B

"The Bennett Letter"

2

DEPARTMENT OF THE ARMY
HEADQUARTERS, US ARMY SCHOOL / TRAINING CENTER
FORT MC CLELLAN, ALABAMA 36201

AJMCO

29 MAR 1973

Commandant
US Army Chemical School
Fort McClellan, Alabama 36201

I recently received the inclosed letter from Major General Warren K. Bennett in which he commented on the amount of time and effort that was put into the preparation of OPLAN EXIT GREEN DRAGON. Please express my appreciation to your staff for the excellent job that was done and pass on the laudatory comments from Major General Bennett.

1 Incl
as

JOSIAH A. WALLACE, JR.
Colonel, FA
Commanding

DEPARTMENT OF THE A..
HEADQUARTERS, THIRD UNITED STA(, ARMY
FORT MC PHERSON, GEORGIA 30330

19 MAR 1973

AJAGT-F-F

SUBJECT: OPLAN EXIT GREEN DRAGON

Commander
US Army School/Training Center
Fort McClellan, Alabama 36201

1. A review of OPLAN EXIT GREEN DRAGON for disestablishment of the Chemical School and relocation/disposition of personnel and equipment indicates that much time and effort were expended in preparing an outstanding plan.

2. Paragraph 4g, Annex C of the OPLAN should be amended to add the following: "All excess PCS stock fund type items should be reported to Headquarters, Third US Army, ATTN: AJAGL-M, for screening prior to turn-in to the station stock fund account."

3. An analysis should be made of the active and inactive chemical training areas/ranges and a request should be submitted to this headquarters, ATTN: AJAGT-N to obtain final clearance of these areas/ranges.

FOR THE COMMANDER:

Warren K. Bennett

WARREN K. BENNETT
Major General, USA
Chief of Staff

DEPARTMENT OF THE ARMY
U. S. ARMY ENVIRONMENTAL HYGIENE AGENCY
ABERDEEN PROVING GROUND, MARYLAND 21010

USAEHA-RH

4 APR 1973

SUBJECT: Radiation Special Study No. 43-041-73

Commandant
USACMLCS
Fort McClellan, AL 36201

1. Reference is made to Radiation Special Study No. 43-041-73, Evaluation of Radioactive Contamination, US Army Chemical Center and School, Fort McClellan, Alabama 36201, 5-7 February 1973.

2. The following are the results of radioactive analysis of water samples submitted by MAJ Wickstrom, Health Physics Office, USACMLCS:

a. Holding Tank Water - 3.6×10^{-5} µCi/ml ^{60}Co.

b. Tap Water - less than MDA-6.2×10^{-8} µCi/ml.

3. Reference is made to recommendation 9g. of Radiation Special Study No. 43-041-73. The decision as to whether an Atomic Energy Commission license or a Department of the Army authorization is required is the responsibility of DCSLOG in accordance with AR 700-52.

4. The transfer of radioactive material from Fort McClellan to Aberdeen Proving Ground shall be in accordance with paragraph 13, AR 700-52 and shipment shall be in accordance with AR 55-55 and TM 55-315.

FOR THE COMMANDER:

WILLIAM W. YOUNG
Colonel, MSC
Director, Radiation and
Environmental Sciences

CF:
DASG-HE
HQDA(DALO-MAI)
Cdr, Third USA, ATTN: Surgeon
Cdr, CONARC, ATTN: Surgeon
Cdr, CONARC, ATTN: ATLOG-MAT-EQ
Cdr, MEDDAC, Ft McClellan
Cdr, USASTC

MEMO FOR RECORD 13 APR 73

SUBJECT: Radiological Environmental Sampling Program

REFERENCE: DF to Members of Radiation Safety Committee, dated 27 Mar 73, subject: as above

1. Reference set 6 April as the final date for action on motion to suspend the routine sampling program and substitute a program of selective sampling.

2. As of this date, three replies have been received, as follows:

MAHOR Hall ... 29 Mar ... Yes
LTC Foster ... 30 Mar ... Yes
Mr Daniel ... 2 Apr ... No

Other replies are assumbed to be Yes by conditions of DF.

3. In view of the above, the motion has carried and this will be announced at the next regular Radiation Safety Committee meeting (currently planned for early May).

4. The program of selective sampling goes into effect at once, replacing the former routine program of mandatory sampling.

CHARLES J. WICKSTROM
MAJ, CmlC
Secretary, Radiation Safety Committee

DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is The Adjutant General's Office.

REFERENCE OR OFFICE SYMBOL	SUBJECT
ATSCM-HP	Radiological Environmental Sampling Program

TO SEE DISTRIBUTION

FROM Secretary, Rad Saf Com DATE 27 Mar 73 CMT
MAJ Wickstrom/kh/393

1. Your consideration is requested of a proposal by Chief, Health Physics Division, USACMLCS, regarding the Radiological Environmental Sampling Program.

2. The Radiological Environmental Sampling Program is designed to insure that radiation sources used in instruction do not result in unintended contamination of sampled areas. With only two (2) men assigned to Health Physics Division, the magnitude of the effort required for this routine program is not compatible with timely accomplishment of currently planned phase-down efforts, which include a massive decontamination program. All areas must be free of hazards to receive certification in June; therefore, Chief of Health Physics Division proposes a program of selective sampling rather than the rigid schedule used previously.

3. Leak testing of sources will continue and will be unaffected by this action. Thi action does not present a lowered safety standard, but rather a more flexible means c monitoring the existing high standard. Phase-down of instruction will enable us to maintain an equivalent level of environmental protection while expending less effort.

4. The Third Army and CONARC Radiological Control Officers, during a visit last week said the Radiation Safety Committee has the authority to take this action.

5. The motion is: "That the USACMLCS Radiological Environmental Sampling Program be suspended for 2d Quarter, CY 73, in favor of a program of selective sampling as directed by Chief, Health Physics Division, leading to radiological clearance certification."

6. Please phone 3937 or 3618 by 6 April to register a "NO" vote. No reply will be taken as a "YES" vote.

Barthel F. Inuffa III, 556
for CHARLES J. WICKSTROM
MAJ, CmlC
Secretary, Radiation Safety Committee

DISTRIBUTION:

Asst Comdt	Med Off, NAH
DOI	NAVTRAU
Dir of Res Inst	Rad Com Representative
Dir, Ofc of Log	Center Safety Director
C, Tech Gp	

RADIOACTIVE MATERIALS MOVEMENT

[X] SHIPMENT [ ] RECEIPT

For use of this form, see AR 55-55; the proponent agency is Office of the Deputy Chief of Staff for Logistics.

(See instructions on reverse.)

DETAILS OF SHIPMENT

1. TO: (Include ZIP Code)
Commandant
USA Missile Munitions Center & School
ATTN: ETSMM-D
Redstone Arsenal, AL 35809

2. FROM: (Include ZIP Code)
Commandant
USA Chemical Center & School
ATTN: ATSCM-MM, Ft McClellan, AL 36201

3. SHIPMENT NUMBER

4. SECURITY CLASSIFICATION: Unclassified

5. MODE OF SHIPMENT (i.e., Railway Express): Military Truck (Convoy)

6. COMMODITY DESCRIPTION

7. RADIOACTIVITY: All in mR/hr

CONTAINERS a	NUMBER OF ITEMS b	NOMENCLATURE c	QUANTITY, ISOTOPE AND FORM d	LEVEL b. AT SURFACE	LEVEL b. AT ONE METER
Ser ## 6758	1	AN/PDR-27(MX7338#K3169)	5mCi Kr-85 Normal	1.7	.1
6753	1		K3159	1.7	.1
7523	1		K3156	2.1	.1
7698	1		K3162	1.6	.1
6630	1		K3161	1.7	.1
7272	1		K3155	2.2	.1
7070	1		K3165	2.1	.1
7054	1		K3158	2.3	.1

SHIPMENT
THE ABOVE DESCRIBED ARTICLES ARE PROPERLY CLASSIFIED, PACKAGED, MARKED, AND LABELED. THE ARTICLES ARE IN PROPER CONDITION FOR TRANSPORTATION AND THE SPREADABLE ACTIVITY AND DOSE RATES ARE WITHIN THE SPECIFIED LIMITS, AS PRESCRIBED BY APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION AND DEPARTMENT OF THE ARMY.

8. REMARKS				
6663	1	K3154	2.1	.1
7095	1	K3167	1.8	.1
6817	1	K3168	2.1	.1
6764	1	K3157	2.3	.1
6726	1	K3150	1.3	.1

CONT ON REVERSE SIDE

9. SPECIAL PRECAUTIONS

10. SIGNATURE OF RADIATION PROTECTION OFFICER (Shipping Organization): CHARLES J WICKSTROM, MAJ — DATE: 16 Apr 73

11. SIGNATURE OF TRANSPORTATION OFFICER (Shipping Organization): Grand master — GRADE AND TITLE — DATE: 4/16/73

12. ORGANIZATION

DA FORM 2791-R, 1 Oct 70 REPLACES DA FORM 2791, 1 JUN 64, WHICH IS OBSOLETE.
(Paper size, 8" x 10½"; image size, 7-4/10" x 10")

Front

Figure 3-7. DA Form 2791-R.

RADIOACTIVE MATERIALS MOVEMENT
☒ SHIPMENT ☐ RECEIPT
For use of this form, see AR 55-55; the proponent agency is Office of the Deputy Chief of Staff for Logistics.
(See instructions on reverse.)

DETAILS OF SHIPMENT

1. TO: (Include ZIP Code)
Commandant
USA Missile Munitions Center & School
ATTN: ETSMM-D
Redstone Arsenal, AL 35809

2. FROM: (Include ZIP Code)
Commandant
USA Chemical Center & School
ATTN: ATSCM-MM, Ft McClellan, AL 36201

3. SHIPMENT NUMBER

4. SECURITY CLASSIFICATION: Unclassified

5. MODE OF SHIPMENT (i.e., Railway Express): Military Truck (Convoy)

6. COMMODITY DESCRIPTION

7. RADIOACTIVITY: All in mR/hr

a. CONTAINERS	b. NUMBER OF ITEMS	c. NOMENCLATURE	d. QUANTITY, ISOTOPE AND FORM	e. LEVEL AT SURFACE	e. LEVEL AT ONE METER
Ser ## 6758	1	AN/PDR-27(MX7338/PDR)	K3169) 5mCi Kr-85 Normal	1.7	.1
6753	1		K3159	1.7	.1
7523	1		K3156	2.1	.1
7698	1		K3162	1.6	.1
6630	1		K3161	1.7	.1
7272	1		K3155	2.2	.1
7070	1		K3165	2.1	.1
7054	1		K3158	2.3	.1

SHIPMENT
THE ABOVE DESCRIBED ARTICLES ARE PROPERLY CLASSIFIED, PACKAGED, MARKED, AND LABELED. THE ARTICLES ARE IN PROPER CONDITION FOR TRANSPORTATION AND THE SPREADABLE ACTIVITY AND DOSE RATES ARE WITHIN THE SPECIFIED LIMITS, AS PRESCRIBED BY APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION AND DEPARTMENT OF THE ARMY.

8. REMARKS

6663	1	K3154	2.1	.1
7095	1	K3167	1.8	.1
6817	1	K3168	2.1	.1
6764	1	K3157	2.3	.1
6726	1	K3150	1.3	.1

CONT ON REVERSE SIDE

9. SPECIAL PRECAUTIONS

10. SIGNATURE OF RADIATION PROTECTION OFFICER (Shipping Organization): CHARLES J WICKSTROM, MAJ — DATE: 16 Apr 73

11. SIGNATURE OF TRANSPORTATION OFFICER (Shipping Organization) — GRADE AND TITLE: Yard Master — DATE: 4/16/73

12. ORGANIZATION

DA FORM 2791-R, 1 Oct 70 REPLACES DA FORM 2791, 1 JUN 64, WHICH IS OBSOLETE.
(Paper size, 8" x 10½"; image size, 7-4/10" x 10")

Front

Figure 3-7. DA Form 2791-R.

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
200 STOVALL STREET
ALEXANDRIA, VA 22332

0423B
5100.00/1
Ser: 112

24 APR 1973

From: Commander, Naval Facilities Engineering Command
To: Commanding Officer, Naval Training Unit, Fort McClellan

Subj: Shipment of a Neutron Source; request for

1. Pursuant to previous discussions concerning the subject request, it is requested that the Americium-Beryllium neutron source (No. NRC-AmBe-1279, 2.52 Curies Americium-241, 6.5 x 10^6 neutrons/sec) be shipped to:

Dr. Abraham Schwebel, Radiological Safety Officer
National Bureau of Standards
Building 245, Room C-125
Gaithersburg, MD 20760

AEC Byproduct Material License No. 08-00566-05

2. Funding citation for this shipment is 17X3980.2339 022 73001 0 000023 2D CCCCCC OCOH36598C03.

G. M. CANS, JR.
By direction

Copy to:
NAVHUPWRU Fort Belvoir (Code 40)
NBS (Dr. A. Schwebel)

JOINT MESSAGEFORM

SECURITY CLASSIFICATION: UNCLASSIFIED

PAGE	DRAFTER OR RELEASER TIME	PRECEDENCE ACT	PRECEDENCE INFO	LMF	CLASS	CIC	FOR MESSAGE CENTER/COMMUNICATIONS CENTER ONLY	DATE – TIME	MONTH	YR
1 OF 16	261630Z	RR	RR		UUUU		0591, 0592, 0593	301659	APR	73

BOOK NO

MESSAGE HANDLING INSTRUCTIONS (3 SECTION MSG)

FROM: CDR USASTC FT MCCLELLAN //ATSCM-HP//

TO: CDRUSATHREE FT MCPHERSON GA //AJAGL-M-M//

CDRCONARC FT MONROE VA //ATLOG-MAT-EQ//

DA WASH DC //DALO-MAE//

CDR EA EDGEWOOD MD //SMUEA-PA-T//

CDR APG ABERDEEN PG MD //AMXBR-XM-HP//

CDR NAVFACENGCOM WASH DC //CODE 042//

CDR NAVELEX WASH DC //CODE 0516//

INFO : DA WASH DC //DALO-MAS-I//

CDR USAONE FT MEADE MD //AHABD-BAS//

CDR USAMC WASH DC //AMCSU-S//

CDR NAVSHIPSENGCTR HYATTSVILLE MD //CODE 6105//

CO NAVELEX-SE CHARLESTON SC //DIV HQ//

CDR LEX BGAD LEXINGTON KY //AMXLX-CO//

CDR EA EDGEWOOD MD //SMUEA-CO/SMUEA-SA/SMUEA-TS-MC//

CDR APG ABERDEEN PG MD //ATSOR-I/ATSOR-L/ATSOR-SO//

CDR APG ABERDEEN PG MD //STEAP-SA//

CDR APG ABERDEEN PG MD //USAEHA-RH//

USAEC HQ GERMANTOWN MD //DIR OF LICENSING//

6 5 4 3 2 1 0

DISTR:

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DRAFTER TYPED NAME, TITLE, OFFICE SYMBOL, PHONE & DATE:
CHARLES J. WICKSTROM, MAJ, C, HP Div;
USACMLCS, ATSCM-HP, 3937, 26 Apr 73

SPECIAL INSTRUCTIONS

RELEASE

TYPED NAME, TITLE, OFFICE SYMBOL AND PHONE

SIGNATURE

SECURITY CLASSIFICATION: UNCLASSIFIED

DATE TIME GROUP

JOINT MESSAGEFORM							SECURITY CLASSIFICATION: UNCLASSIFIED			
PAGE	DRAFTER OR RELEASER TIME	PRECEDENCE ACT	PRECEDENCE INFO	LMF	CLASS	CIC	FOR MESSAGE CENTER/COMMUNICATIONS CENTER ONLY	DATE – TIME	MONTH	YR
2 OF 16	261630Z	RR	RR		UUUU			301659	APR	73
BOOK NO	MESSAGE HANDLING INSTRUCTIONS									

FROM:

TO:

INFO :RUCLHTA/USAEC REGION II ATLANTA GA //DIR OF REGULATORY OPNS//

UNCLAS

AEC GERMANTOWN FOR MR. BORYER; AEC ATLANTA FOR MR. GUINN; ATSOR-I

PASS TO LTC ARMSTRONG

SUBJ: DISPOSITION OF RADIOACTIVE MATERIAL

A. MSG #0288 THIS HQ, 162011Z JAN 73, SUBJ: DISPOSAL/CLEANUP OF RADIOACTIVE MATERIAL(NOTAL)

B. MSG #0289 THIS HQ, 162010Z JAN 73, SUBJ: RADIOLOGICAL DECONTAMINATION LIMIT GUIDANCE(NOTAL)

C. RADIATION SPECIAL STUDY 43-041-73, USAEHA, SUBJ: EVALUATION OF RADIOACTIVE CONTAMINATION AT USACMLCS(NOTAL)

1. BY REF A, NOTIFICATION WAS GIVEN OF PLANNED DISESTABLISHMENT OF USA CHEMICAL CENTER AND SCHOOL (USACMLCS) AT FT MCCLELLAN AL, AS IT AFFECTED RADIOLOGICAL ACTIVITY. SHUT-DOWN DATE HAS SINCE BEEN SHIFTED FROM 30 JUN TO 24 JUN.

2. REF A INCLUDED REQUEST FOR PERMISSION TO SHIP TO AND STORE AT EDGEWOOD ARSENAL MD RADIOACTIVE MATERIALS CURRENTLY HELD BY

6 5 4 3 2 1 0

DISTR:

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DRAFTER TYPED NAME, TITLE, OFFICE SYMBOL, PHONE & DATE	SPECIAL INSTRUCTIONS
RELEASE: TYPED NAME, TITLE, OFFICE SYMBOL AND PHONE	
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JOINT MESSAGEFORM

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PAGE	DRAFTER OR RELEASER TIME	PRECEDENCE ACT	PRECEDENCE INFO	LMF	CLASS	CIC	FOR MESSAGE CENTER/COMMUNICATIONS CENTER ONLY	DATE – TIME	MONTH	YR
3 OF 16	261630Z	RR	RR		UUUU			301659	APR	73

BOOK NO

MESSAGE HANDLING INSTRUCTIONS

FROM:

TO:

USACMLCS, UTILIZING EDGEWOOD LICENSES BML-19-12056-02 AND SNM-9. NO REPLY HAS BEEN RECEIVED. THIS MSG FOLLOWS UP WITH MORE SPECIFIC DATA ON DISPOSITION ACTIONS.

3. BY REF B, USACMLCS REQUESTED GUIDANCE FOR RADIOLOGICAL DECONTAMINATION OF FT MCCLELLAN FACILITIES. USAEHA HAS RESPONDED WITH VISIT AND REF C. DECONTAMINATION IS PROCEEDING AS DIRECTED AND NO DIFFICULTIES ARE FORESEEN IN COMPLETION OF PHYSICAL WORK.

4. INSPECTION TO GRANT RADIOLOGICAL CLEARANCE IS CURRENTLY PLANNED BY USAEHA FOR WEEK OF 29 MAY-1 JUN. USAEC FOLLOW-UP VISIT BY REGIONAL REPRESENTATIVE IS PLANNED FOR WEEK OF 4 JUNE. BY THE TIME OF THESE VISITS, ALL RADIOACTIVE MATERIALS ARE TO HAVE BEEN SHIPPED OUT FROM USACMLCS.

5. SHIPMENT MODE FOR RADIOACTIVE SOURCES GOING FROM FT MCCLELLAN TO EA MD, AND ALSO THOSE ULTIMATELY GOING TO APG MD IAW PARA 16, IS PLANNED AS SINGLE SHIPMENT IN COMMERCIAL VAN-TYPE TRUCK, DEPARTING FT MCCLELLAN FOR EA MD IN LATE MAY. MILITARY CONVOY, ALTHOUGH IT WILL BE RETAINED AS A BACK-UP MODE, IS NOT

6 5 4 3 2 1 0

DISTR:

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DRAFTER TYPED NAME, TITLE, OFFICE SYMBOL, PHONE & DATE

SPECIAL INSTRUCTIONS

RELEASE

TYPED NAME, TITLE, OFFICE SYMBOL AND PHONE

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DATE TIME GROUP

JOINT MESSAGEFORM							SECURITY CLASSIFICATION: UNCLASSIFIED		
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							DATE – TIME	MONTH	YR
4 OF 16	2616303	RR	RR		UUUU		301659	APR	73
BOOK NO	MESSAGE HANDLING INSTRUCTIONS								

FROM:

TO:

FELT TO BE SUITABLE FOR THIS SHIPMENT DUE TO SPECIAL ROUTE CLEARANCE AND ESCORT RQMTS, AND DIFFICULTIES IN ADAPTING SHIPMENT TO AVAILABLE MILITARY VEHICLES. THERE WILL BE FOUR OTHER DISTINCT SHIPMENTS. THE ITEMS FOR REDSTONE ARS WILL GO WITHIN MILITARY CONVOY, WHILE THE WASTE DISPOSAL SHIPMENT IS EXPECTED TO BE COMMERCIAL, AS ARE BOTH NAVY ITEM SHIPMENTS. LOCAL SECOND DESTINATION FUNDS WILL BE UTILIZED FOR THE COMMERCIAL MOVES.

6. THE HEALTH PHYSICIST AT THE SHIPMENT DESTINATION AT EDGEWOOD ARS, WITH AEC LICENSES BML-19-12056-02 AND SNM-9, A MR. EARL WRIGHT, HAS BEEN COORDINATED WITH ON THIS TRANSFER AND HAS BEEN FURNISHED AN INCLUSIVE SOURCE LIST. HIS LICENSES HAVE THE CURIE CAPACITY TO ACCEPT THE PLANNED SOURCE TRANSFERS.

7. ALL SOURCES FOR WHICH APG MD BLDG 5218 IS THE DESIGNATED TERMINAL LOCATION SHOWN IN PARA 16 WILL BE RECEIVED FIRST AT EA MD BLDG 5685 INTO CUSTODY OF MR. EARL WRIGHT FOR INSPECTION AND FOR TEMPORARY STORAGE UNTIL THE BLDG 5218 FACILITY IS READY WITH VAULT.

6 5 4 3 2 1 0

DISTR:

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DRAFTER TYPED NAME, TITLE, OFFICE SYMBOL, PHONE & DATE	SPECIAL INSTRUCTIONS	
RELEASE: TYPED NAME, TITLE, OFFICE SYMBOL AND PHONE		
SIGNATURE	SECURITY CLASSIFICATION: UNCLASSIFIED	DATE TIME GROUP

JOINT MESSAGEFORM							SECURITY CLASSIFICATION: UNCLASSIFIED		
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							DATE – TIME	MONTH	YR
5 OF 16	261630Z	RR	RR		UUUU		301659	APR	73
BOOK NO	MESSAGE HANDLING INSTRUCTIONS								

FROM:

TO:

8. FOR DALO-MAE MR. FAGAN AND AEC DIV OF LIC MR. BORYER: THIS MSG CONSTITUTES OFFICIAL REQUEST FOR CANCELLATION IN ENTIRETY OF THE THREE AEC LICENSES HELD BY COMMANDANT OF USACMLCS, TO WIT BML-1-2861-1, BML-1-2861-2, AND SNM-344, EFFECTIVE 24 JUN, AND FOR APPROVAL OF TRANSFERS OF RADIOACTIVE MATERIAL ASSOCIATED WITH DISPLACEMENT OF USACMLCS TRAINING CAPABILITY TO OTHER LOCATIONS, AS SPECIFICALLY DELINEATED IN PARA 16 BELOW. APPROVAL OF PLANNED TRANSFERS IS NEEDED BY 9 MAY IN ORDER TO COMPLY WITH TRANSPORTATION LEAD TIMES TO ALLOW DISPATCH OF RADIOACTIVE MATERIALS BEFORE INSPECTION TEAM ARRIVES 29 MAY. REQUEST AUTHORITY TO OBTAIN TELEPHONIC APPROVAL FROM YOU OF THE TWO NAVY TRANSFERS ONCE ADDRESSEES ARE FURNISHED (PARA 16U, 16V). REQUEST AUTHORITY FOR TELEPHONIC REQUEST TO SMUEA-TS-MC: MR. DEAN ON DISPOSAL ACTION FOR PARA 16W ITEMS, TO ENABLE SHIPMENT OF ALL RADIOACTIVE WASTE BEFORE INSPECTION COMMENCES 29 MAY. REQUEST YOUR EARLIEST ACTION ON NEW AEC LICENSE APPLICATION COVERING RESIDUAL CONTAMINATION, REQD

6 5 4 3 2 1 0

DISTR:

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DRAFTER TYPED NAME, TITLE, OFFICE SYMBOL, PHONE & DATE	SPECIAL INSTRUCTIONS
RELEASER: TYPED NAME, TITLE, OFFICE SYMBOL AND PHONE	
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JOINT MESSAGEFORM

SECURITY CLASSIFICATION: UNCLASSIFIED

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BOOK NO

MESSAGE HANDLING INSTRUCTIONS

FROM:

TO:

BY REF C, WHICH IS BEING SUBMITTED THRU CHANNELS, TO ENABLE ACTION ON APPLICATION IN TIME TO INFORM INSPECTION TEAM OF OUTCOME DURING WEEK OF 29 MAY. THIS LICENSE WILL BE HELD BY CDR USASTC FT MCCLELLAN (AJMGP-S-S: MR. DANIEL, RPO). THE USE OF LICENSES BML-19-12056-02 AND SNM-9 IS ENVISIONED TO BE TEMPORARY UNTIL US ARMY ORD CEN & SCH (USAOC&S) CAN GET NEW AEC LICENSE APPLICATIONS APPROVED. ALTHOUGH SOME WORK REMAINS TO BE DONE ON USAOC&S FACILITIES, TRAINING REQUIREMENTS FOR USE OF RADIOACTIVE MATERIALS WILL BE ABOUT THE SAME AS THEY HAVE BEEN AT USACMLCS.

9. FOR ATLOG-MAT-EQ, MAJ STEVENS AND AJAGL-M-M, MR. ADAMCZYK: REQUEST THAT YOU COMMUNICATE ANY NONCONCURRENCES TO DALO-MAE SO THAT MR. FAGAN MAY TAKE ACTION ON REPLY BY THE 9 MAY SUSPENSE. FURTHER REQUEST YOU EXPEDITE PROCESSING OF AEC LICENSE APPLICATION FOR RESIDUAL CONTAMINATION.

10. FOR AMXBR-XM-HP, MR. WRIGHT: THIS CONFIRMS AND UPDATES LETTER DTD 22 FEB 73. LATE MAY SHIPMENT WILL BE UNESCORTED.

6 5 4 3 2 1 0

DISTR:

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DRAFTER TYPED NAME, TITLE, OFFICE SYMBOL, PHONE & DATE

SPECIAL INSTRUCTIONS

RELEASE

TYPED NAME, TITLE, OFFICE SYMBOL AND PHONE

SIGNATURE

SECURITY CLASSIFICATION: UNCLASSIFIED

DATE TIME GROUP

JOINT MESSAGEFORM

SECURITY CLASSIFICATION: UNCLASSIFIED

PAGE	DRAFTER OR RELEASER TIME	PRECEDENCE ACT	PRECEDENCE INFO	LMF	CLASS	CIC	FOR MESSAGE CENTER/COMMUNICATIONS CENTER ONLY	DATE – TIME	MONTH	YR
7 OF 16	261630Z	RR	RR		UUUU			301659	APR	73

BOOK NO

MESSAGE HANDLING INSTRUCTIONS

FROM:

TO:

REQUEST YOU RECEIVE AND STORE IN BLDG 5685 OUR SOURCES DESIGNATED TO BE HELD AT YOUR LOCATION IN PARA 16. WE PLAN TO UNCRATE AND LEAK TEST SOURCES WHEN OUR HEALTH PHYSICS PERSONNEL ARRIVE. WE WILL NOTIFY YOU BY AUTOVON 584-2710 WHEN SHIPMENT DEPARTS FT MCCLELLAN.

11. FOR SMUEA-PA-T, MR. SINCLITICO: REQUEST THAT ONE AN/UDM-1A SHIPPING CONTAINER, WEIGHT APPROX 800 POUNDS, BELONGING TO YOUR DIVISION, BE SHIPPED TO USACMLCS FT MCCLELLAN AL, ATTN: DIR, OFC OF LOG(ATSCM-OL), FOR USE IN CONNECTION WITH PARA 16U TRANSFER. REQUEST SHIPMENT ASAP, NLT 15 MAY. FUNDS HAVE BEEN ALLOCATED BY USACMLCS FOR SHIPMENT TO FT MCCLELLAN. ACCOUNTING CLASSIFICATION: 2132020 53-7230 P810000-2200 S01088 APC W6AB BVN01-732-73. REQUEST COPY OF OBLIGATING DOCUMENT BE FURNISHED USACMLCS AT ABOVE ADDRESS, ATTN: ATSCM-MB. YOU WILL BE INFORMED AS TO IDENTITY OF DESIGNATED NAVY RECEIVING ACTIVITY, WHICH WILL RETURN CONTAINER TO YOU AT THEIR EXPENSE. PREVIOUS CONTACTS

6 5 4 3 2 1 0

DISTR:

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DRAFTER TYPED NAME, TITLE, OFFICE SYMBOL, PHONE & DATE

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8 OF 16	261630Z	RR	RR		UUUU			301659	APR	73

BOOK NO

MESSAGE HANDLING INSTRUCTIONS

FROM:

TO:

HAVE BEEN BY PHONE WITH MR. DIXON AND MR. EDWARDS.

12. FOR SMUEA-TS-MC, MR. DEAN: SIXTY-TWO DRUMS HAVE BEEN FILLED BY DECONTAMINATION WORK AND SOURCE DISPOSAL ACTIONS AT THIS TIME, AND THE FIGURE SEVENTY-FIVE IN PARA 16W IS A PROJECTION. NO DRUM IS EXPECTED TO EXCEED YELLOW LABEL THREE CLASSIFICATION.

13. FOR USAEHA-RH, LTC BLACKBURN: PARA 4 CONFIRMS OUR FONECON OF 19 APR. REQUEST THAT INSPECTING TEAM CHIEF BE AFFORDED COPY OF THIS MSG.

14. FOR NAVY ADDRESSEES: YOUR ASSISTANCE IS REQUESTED IN HANDLING TRANSFERS OUTLINED IN PARA 16U AND 16V. IT IS ANTICIPATED THAT THE NAVAL TRAINING UNIT AT FT MCCLELLAN WILL BE DISESTABLISHED BY 1 JUL AND WILL NOT MOVE TO SAME LOCATION AS USACMLCS. COMMANDER, NTU FT MCCLELLAN CONCURS IN THIS REQUEST. THE 9 MAY SUSPENSE OF PARA 8 WILL APPLY. CDR NAVELEX IS EXPECTED TO TAKE ACTION ON PARA 16U; CDR NAVFACENGCOM IS EXPECTED TO TAKE ACTION ON PARA 16V. NAVELEX PLEASE NOTE PARA 11.

15. CONTACT FOR QUESTIONS CONCERNING THIS MESSAGE IS HEALTH

6 5 4 3 2 1 0

DISTR:

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9 OF 16	261630Z	RR	RR		UUUU			301659	APR 73

BOOK NO

MESSAGE HANDLING INSTRUCTIONS

FROM:

TO:

PHYSICS OFFICER, USACMLCS, AUTOVON 865-3937/3618, MAJ WICKSTROM OR SSG TRUFFA.

16. THIS FINAL PARA DELINEATES SPECIFIC TRANSFERS PLANNED, INCLUDING SOURCE DESCRIPTIONS, QUANTITIES, DESTINATIONS, AND LICENSES INVOLVED:

A. TWO EACH RADIOACTIVE SOURCE SET M3A1 FROM FT MCCLELLAN TO EA, MD, BLDG 5685. SOURCES WILL REMAIN UNDER AEC LIC BML-19-1826-2, ISSUED TO DA AT EA, MD. AR 725-1 APPLIES. SER D-39,748.

B. TWENTY EACH RADIAC CALIBRATOR TS-784A/PD FROM FT MCCLELLAN TO EA, MD, BLDG 5685. SOURCES WILL REMAIN UNDER AEC LIC BML 16-5033-1, ISSUED BY LBAD, KY. AR 725-1 APPLIES. SER 083A4167, 151A4255, 070A4049, 065A3664, 011A3698, 031A-3896, 058A3900, 029A3911, 063A3930, 064A3931, 055A3952,

6 5 4 3 2 1 0 072A4023, 060A4035, 026A4043, 067A4050, 062A4122, 075A4150, 059A4174, 076A4180, 066A4181.

C. EIGHTY-FIVE EACH RADIOACTIVE TEST SAMPLE MX7338/

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BOOK NO

MESSAGE HANDLING INSTRUCTIONS

FROM:

TO:

PDR-27, FROM FT MCCLELLAN TO US ARMY ORD CEN & SCHOOL (USAOC&S), PART AT APG, MD, BLDG 5218, REST AT EA, MD, BLDG 5685. SOURCES WILL REMAIN UNDER AEC LIC BML-19-1826-2, ISSUED TO DA AT EA, MD. SER K-3065 THRU K-3149 INCLUSIVE.

D. TWENTY EACH RADIOACTIVE TEST SAMPLE, MX7338/PDR-27, FROM FT MCCLELLAN TO REDSTONE ARS, AL, BLDG 3749. SOURCES WILL REMAIN UNDER AEC LIC BML-19-1826-2, ISSUED TO DA AT EA, MD. SER K-3150 THRU K-3169 INCLUSIVE.

E. SIX EACH SEALED SOURCE CS-137, ACTIVITY 93 TO 466 MILLICURIES EACH, TOTAL ACTIVITY 1490 MILLICURIES, FROM FT MCCLELLAN TO APG, MD, BLDG 5218. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-2, ISSUED TO BRL, APG, MD. SER 60251 THRU 60256 INCLUSIVE.

F. ONE EACH RADIAC CALIBRATOR AN/UDM-2, ACTIVITY 87 MILLICURIES OF SR-Y-90, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD, SER 0005.

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BOOK NO	MESSAGE HANDLING INSTRUCTIONS									

FROM:

TO:

G. SEVENTEEN EACH RADIAC CALIBRATOR AN/UDM-6, FROM FT MCCLELLAN TO USAOC&S, PART AT APG, MD, BLDG 5218, REST AT EA, MD, BLDG 5685. NINE EACH AN/UDM-6 WILL REMAIN UNDER AEC LIC SNM-954, ISSUED TO CDR, EA, MD, SER A-1113, A-1114, A-1115, A-1130, A-1131, A-1132, A-1133, A-1154, A-1155. REST FROM AEC LIC SNM-344, ISSUED TO USACMLCS, TO SNM-9, ISSUED TO BRL, APG, MD, SER A-0002, A-0013, A-0014, A-0015, A-0016, A-0019, A-0021, A-~~0022~~ A-0023.

H. TWO EACH CHECK SOURCE FOR GERMAN ARMY RADIAC INSTRUMENT FH40T, TWENTY-FIVE MICROCURIE CESIUM, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD, SER 1598, 2455.

I. FOUR HUNDRED FIFTY U-233 ALPHA SOURCE PLATES, ACTIVITY RANGE 200,000 DPM TO 1,900,000 DPM, TOTAL QUANTITY OF URANIUM IN ALL PLATES 25 MILLIGRAMS, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. FROM AEC LIC SNM-344, ISSUED TO USACMLCS, TO SNM-9 ISSUED TO BRL, APG, MD. SER A-1 THRU A-450 INCLUSIVE.

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12 OF 16	261630Z	RR	RR		UUUU			301659	APR 73
BOOK NO	MESSAGE HANDLING INSTRUCTIONS								

FROM:

TO:

J. NINE EACH CHECK SOURCE FOR AN/PDR-39, ONE-HALF MICRO-CURIE SR-Y-90 EACH, FROM FT MCCLELLAN TO APG, MD, BLDG 5218. SOURCE IS AN INTEGRAL INTERIOR PART OF THE INSTRUMENT. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD. SER 613, 623, 629, 630, 659, 673, 6582, LSD 49, LSD 319.

K. SIXTY EACH GAMMA SOURCES, COBALT-60, LOCALLY FABRI-CATED, DEPOSITED ON COPPER PLANCHET, STORED IN FORTY EACH THREE INCH BY TWO INCH TRAYS LABELLED COBALT-60, INDIVIDUAL SOURCE ACTIVITY UP TO ONE MICROCURIE, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD.

L. FORTY-FOUR BETA AND BETA-GAMMA SOURCES, LOCALLY FAB-RICATED, DEPOSITED ON COPPER PLANCHET, AND STORED IN FORTY-FOUR EACH THREE-INCH BY TWO-INCH TRAYS LABELLED UNKNOWN. INDIVIDUAL SOURCE ACTIVITY UP TO ONE MICROCURIE, MIXTURES OF UP TO FOUR OF THE FOLLOWING EIGHT ISOTOPES MAKING UP EACH

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BOOK NN	MESSAGE HANDLING INSTRUCTIONS								

FROM:

TO:

SOURCE, CA-45, CO-60, SC-46, CE-141, AU-198, CS-137, AG-110M, RB-86; FROM FT MCCLELLAN TO EA, MD, BLDG 5685. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD.

M. NINE HEAT-SEALED CLEAR PLASTIC BAGS CONTAINING AN ARTICLE OF EQUIPMENT OR A COPPER PLANCHET, ON WHICH IS DEPOSITED UP TO ONE MICROCURIE OF CALCIUM-45, FROM FT MCCLELLAN TO APG, MD, BLDG 5218. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS TO BML-19-12056-02, ISSUED TO BRL, APG, MD. SER 1, 4, 8, D, E, G, J, M, S.

N. FOURTEEN HEAT-SEALED CLEAR PLASTIC BAGS CONTAINING AN ARTICLE OF EQUIPMENT OR A COPPER PLANCHET, ON WHICH IS DEPOSITED UP TO ONE MICROCURIE OF SILVER-110 METASTABLE FROM FT MCCLELLAN TO APG, MD, BLDG 5218. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD. SER 2, 5, 7, B, C, H, I, K, N, Q, R, T, A2, B2.

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BOOK NO	MESSAGE HANDLING INSTRUCTIONS									

FROM:

TO:

O. SIX METAL DISK ICN COMMERCIAL CALIBRATION SOURCES FOR SCALERS, THREE EACH OF COBALT-60 AND CARBON-14; INDIVIDUAL SOURCE ACTIVITY LESS THAN ONE-TENTH MICROCURIE, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. THESE SOURCES ARE EXEMPT FROM AEC LICENSING REQUIREMENTS.

P. TWO METAL DISK US NUCLEAR CORP COMMERCIAL CALIBRATION SOURCES FOR SCALERS, COBALT-60, INDIVIDUAL SOURCE ACTIVITY LESS THAN ONE-HUNDREDTH MICROCURIE, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. THESE SOURCES ARE EXEMPT FROM AEC LICENSING REQUIREMENTS.

Q. FOUR METAL DISK COMMERCIAL CALIBRATION SOURCES FOR SCALERS, ONE OF WHICH BY US NUCLEAR CORP CONTAINS URANIUM-238 ACTIVITY 405 DPS, THE REST BY ICN CONTAINING NATURAL URANIUM WITH INDIVIDUAL SOURCE ACTIVITY LESS THAN ONE-TENTH MICROCURIE, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. THESE SOURCES ARE EXEMPT FROM SPECIFIC AEC LICENSING REQUIREMENTS, AND ARE HELD UNDER PARA 40.22 OF TITLE 10, CODE OF FEDERAL

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15 OF 16	2616308	RR	RR		UUUU			301659	APR 73
BOOK NO	MESSAGE HANDLING INSTRUCTIONS								

FROM:

TO:

REGULATIONS.

R. ELEVEN PLASTIC DISK OR TUBE GAMMA SPECTROSCOPY CALIBRATION SOURCES, FIVE DIFFERENT ISOTOPES, ACTIVITY LESS THAN ONE MICROCURIE EACH, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. THESE SOURCES ARE EXEMPT FROM AEC LICENSING REQUIREMENTS. ISOTOPES NA-22, CS-137, MN-54, BA-133, CO-60.

S. THREE GLASS VIAL LIQUID SCINTILLATION STANDARD SOURCES, CARBON-14, ACTIVITY RANGE TWO-HUNDREDTHS TO TWO-TENTHS MICROCURIE, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD.

T. ONE CALIBRATION SOURCE FOR LIQUID SCINTILLATION COUNTER, BECKMAN BETA-MATE-MODEL I, FORTY MICROCURIES CESIUM-137, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. THIS SOURCE IS AN INTEGRAL INTERNAL PART OF THE INSTRUMENT. SOURCE WILL REMAIN UNDER AEC LIC, NUMBER UNKNOWN, ISSUED TO BECKMAN CORPORATION.

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16 OF 16	261630Z	RR	RR		UUUU			301659	APR	73

BOOK NO

MESSAGE HANDLING INSTRUCTIONS

FROM:

TO:

U. ONE AN/UDM-1A RADIAC CALIBRATOR, NINETY-ONE CURIES CESIUM-137, FROM FT MCCLELLAN TO A NAVY ACTIVITY, CURRENTLY UNIDENTIFIED. THIS CALIBRATOR IS HELD UNDER AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, BUT IS NAVY PROPERTY. A NAVY ADDRESSEE, PROPERLY LICENSED TO RECEIVE THIS ITEM, IS REQUESTED IN TIME TO ALLOW FOR LATE MAY SHIPMENT. SER 10.

V. ONE AMERICIUM-BERYLLIUM NEUTRON SOURCE, ACTIVITY 2.5 CURIES AMERICIUM, SIX POINT FIVE MILLION NEUTRONS PER SECOND, FROM FT MCCLELLAN TO A NAVY ACTIVITY, CURRENTLY UNIDENTIFIED. THIS SOURCE IS HELD UNDER AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, BUT IS NAVY PROPERTY. A NAVY ADDRESSEE, PROPERLY LICENSED TO RECEIVE THIS ITEM, IS REQUESTED IN TIME TO ALLOW FOR LATE MAY SHIPMENT. SER MRC-AMBE-1279.

W. SEVENTY-FIVE EACH FIFTY-FIVE GALLON METAL DRUMS OF RADIOACTIVE WASTE TRANSPORT INDEX RANGE FROM POINT ONE TO THREE POINT THREE, FROM FT MCCLELLAN TO A WASTE DISPOSAL LOCATION, AS YET UNDESIGNATED.

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SPECIAL INSTRUCTIONS

RELEASE

TYPED NAME, TITLE, OFFICE SYMBOL AND PHONE

SIGNATURE

SECURITY CLASSIFICATION: UNCLASSIFIED

DATE TIME GROUP

MFR:

This message: (1) Follows up on previous message, (2) uses expanded addressee list as recommended by involved parties, (3) specifies actions and approvals needed from DA and AEC to accomplish deactivation in timely manner, (4) gives detailed data on specific source transfers, (5) acts as a sort of radiological progress report, (6) confirms a number of prior specified and unspecified telephonic arrangements, (7) is necessary, as opposed to a letter, due to USACMLCS deactivation time constraints, (8) could not be sent previously since several of the involved factors stated in the message became known only recently, (9) is lengthy, but all the data is required according to radiological advisors of higher headquarters.

CHARLES J. WICKSTROM, MAJ, CmlC, C, Health Physics Div, USACMLCS

COORDINATION: USACMLCS

Asst Comdt EMS 27 Apr

DOI

Ger Army LnO 30 Apr 73

Ofc of Log 30 Apr 73

M/PBO CF

Rad Comte 30 Apr 73

Tech Gp 30 Apr 73

NTU

Disest. Proj O CF

Alt Hlth PhysO 30 Apr 73

USAS/TC

DPCA: Safety Mgr 30 Apr 73 CF

DIO: Trans Div 27 Apr 73 CF

DCE: Dir OK

DCO: OK

APPROVED:

Comdt

Code N541/141
2 MAY 1973

FIRST ENDORSEMENT on NAVTPAU Fort McClellan ltr 00:bl 9673 Ser: 76 of 23 April 1973

From: Chief of Naval Technical Training
To: Commander, Naval Electronics Systems Command (Code 0516)
Via: Commanding Officer, Naval Electronics Systems Command, Southeast Division

Subj: Disestablishment of Radiac-Radiation Sources Allowance-inventory and request for disposition instructions thereto

1. Forwarded concurring with subject request.

A. F. Beaver

A. F. BEAVER
By direction

Copy to:
NAVTPAU Fort McClellan
NAVFACENGCOMHQ (042)
CHNDT USACMCS Ft. McClellan
NSC Charleston
NAVHUPWRU Fort Belvoir

COMMANDING OFFICER
NAVAL TRAINING UNIT
ARMY CHEMICAL CENTER & SCHOOL
FORT McCLELLAN, ALABAMA 36201

DD:blm
10170
Ser: 81
2 May 1973

AIR MAIL

From: Commanding Officer
To: Commanding Officer, Naval Training Equipment Center (44), Orlando, Florida 32813
Via: Chief of Naval Technical Training (541)

Subj: Disposition of Training Equipment; request for

Ref: (a) CNTECHTRA 230004Z JAN 73
(b) PHONECON CO NAVTRAU and Code 541 CNTECHTRA 27 APR 73
(c) NAVTRADEV P-530-2 of 1 JUL 71
(d) Index to Directory of Naval Training Devices - MAR 72
(e) CNTECHTRA ltr 7000 Code 542 of 23 APR 73
(f) TAMARS REPORT 10170-1 of 1 NOV 72

Encl: (1) List of Training Equipment

1. Reference (a) which proposes disestablishment of NAVTRAU Fort McClellan, AL 30 June 1973 brings about this training equipment disposition request. Reference (b) gives disposition guidance in addition to guidance contained in references (c) and (d). CO NAVTRAU requests disposition instructions for the items shown on enclosure (1); comments pertaining to certain items follow.

2. The Radiation Decontamination Trainer 11F3A, item 1 of enclosure (1), is in poor condition, for it needs new fittings, gaskets and hose. The mixing tank interior bears removeable radioactive contamination up to 7000 dpm per/100 cm^2 which is far in excess of the permissible 1000 dpm/100 cm^2. Removal of radioactive contamination would be impractical because plumbing at the base of the mixing tank would have to be disassembled prior to any decontamination effort. In addition, routing of the polyethylene tank liner would be required Even then, the efficacy of decontamination would be questionable, because some radioactive contamination may be fixed. No repair parts are available locally to overhaul the 11F3A. The 11F3A is noted as a category E no support (expendable equipment) item in reference (d). Considering such conditions, it is recommended that the 11F3A be surveyed, expended on property records and shipped as radioactive waste by the Commandant, U. S. Army Chemical Center and School citing Navy transportation funds. The 11F3A must be shipped by 18 May prior to an AEC inspection incident to return of the radiological decontamination pad to other use.

3. The overhead projector, item 4 enclosure (1) and the opaque projector, item 6 of enclosure (1) should be shipped 8 May 1973

to the Naval Unit, Lowry AFB for use in training Navy Disaster Preparedness Officers beginning 8 August 1973.

4. The Radiation Survey Trainer 11F9 is incomplete. Enclosure (shows 11F9 components on board. The Disaster Recovery Department at CB Center, Gulfport recently expressed an interest in the 11F9 held by NAVTRAU.

5. The items listed on enclosure (1) compare favorably with reference (f). Items 1 and 7 of enclosure (1) are not included on reference (f). CO NAVTRAU will send DD Forms 1342 (Property Record to the Naval Training Equipment Center, Orlando after disposition of items 1 and 7, enclosure (1), since their acquisition cost excee $500.

6. Appropriation data for shipment of training aids from NAVTRAU has been cited under reference (e). CO NAVTRAU plans to ship training aids after the Secretary of the Navy has disestablished NAVTRAU, Fort McClellan.

MERICE NELLES

Copy to:
NAVFACENGCOM (062)
CNTT (21, 33)
CNMDT, ACMLCS (Health Physics)
CO, CB Center, Gulfport (DRD)
CO, NSC Charleston (5)
CO, Naval Unit, Lowry AFB

1 MAY 1975

LIST OF TRAINING EQUIPMENT NAVTRAU FORT MCCLELLAN, ALA

ITEM NUMBER	NOMENCLATURE	FSN	I.D. NUMBER	QTY	CONDITION
1	11F3A Radiation Decontamination Trainer	N/A	62591653136	1	0-4
2.	Projector 16mm Bell&Howell AQ-2A, 2000 ft capacity	N/A	62591653109	1	0-2
3.	Slide projector-Kodak AV-305 Ektagraphic w/2 stack loader #B4 & 1 slide tray #581	N/A	N/A	1	0-2
4	Transpaque overhead projector 20/20	N/A	1763	1	0-2
5.	Tape recorder, Wollensack model 9521	N/A	95212293	1	0-2
6.	Opaque projector 1C/QPU-1A0	N/A	N81040	1	0-2
7.	Device X11F9 Training Set Radiation Survey model with following components: 1 main transmitter 281A-503, 1 antenna and antenna kit 281A-505, 2 hot spot transmitters 281A-502, 15 simulated radiac meters IM-125/PDR43B 281A-504, 1 manual 281A-L, 1 pkg simulated high explosive material 281A-4011, RF transmission line, 1 set coder disc blanks, extender card, external battery cable, and battery cable	6910-C00-0905	N/A	1	0-2 (incomplete)

Enclosure (1)

135

5-6 CMLCS

ROUTINE * U N C L A S S I F I E D *

PT G1034 123 202152

RTTUZYUW RUE4DW07236 1231918-UUUU--RUCLBWA.

ZNR UUUUU

R 031916Z MAY 73

FM DA WASHDC //DALO-MAS-I//

TO RUCLBWA/CDRUSASTC FT MC CLELLAN AL //ATSCM-HP//

INFO RUEDPDA/CDRCONARC FT MONROE VA //ATLOG-MAT-EQ//

BT

UNCLAS

SUBJ: DISPOSITION OF RADIOACTIVE MATERIAL

A. ATSCM-HP 301659Z APR 73

RE PARA 8 OF REF, USAEC ADVISED THAT:

A. TERMINATION OF AN AEC LICENSE CANNOT BE EFFECTED UNTIL MATERIAL POSSESSED UNDER LICENSE HAS BEEN TRANSFERRED OR DISPOSED OF.

B. NO PROBLEM ANTICIPATED WITH BML 01-02861-02 COVERING BROMINE 82 OR SNM 344 PROVIDED THERE IS NO RESIDUAL CONTAMINATION.

C. RE BML 01-02861-01. THIS LICENSE WILL REQUIRE AMENDMENT TO COVER RESIDUAL CONTAMINATION, WHO WILL BE LICENSEE AND PROGRAM FOR SURVEILLANCE AND INSPECTION. AN AMENDMENT SHOULD BE REQUESTED ONLY AFTER MATERIAL, OTHER THAN RESIDUAL CONTAMINATION, HAS BEEN TRANSFERRED.

D. USAEC APPROVAL IS NOT NEEDED TO TRANSFER THE MATERIAL UNDER

RECEIVED MAY 4 1973 FT. McCLELLAN, ALA.

2- HP

1- Cir & File

1- O/C & Log

ROUTINE * U N C L A S S I F I E D *

ROUTINE ********** * U N C L A S S I F I E D * **********

APG LICENSES BNL 19-12056-02 AND SNM-9 PROVIDED THESE LICENSES CAN

ACCOMMODATE THE MATERIAL.

E. USAEC APPROVAL, BY ITSELF, IS NOT NEEDED TO TRANSPORT THIS MATERIAL TO APG PROVIDED IT CONFORMS TO EXTANT AEC AND DOT REGULATIONS.

BT

#7236

NNNN

ROUTINE ********** * U N C L A S S I F I E D * **********

DEPARTMENT OF THE A[illegible]Y
HEADQUARTERS, US ARMY SCHOOL[illegible]AINING CENTER
Fort McClellan, Alabama 36201

AJMGP-A-A
LETTER ORDER NUMBER 05-36 4 May 1973

SUBJECT: Revocation

SEE DISTRIBUTION

TC 469. Following orders are changed as indicated.

Action: Revocation
So much of: LO 06-35 this Hq 8 June 1972
Pertaining to: Post Radiological Protection Officer
As reads: NA
How changed: NA
Authority: VOCO

FOR THE COMMANDER:

G. D. MUSARRA
2LT, AGC
Asst AG

DISTRIBUTION:
5-USACMLCS
2-2d Cml Bn
2-548th Sup & Svc Bn
2-CO MEDDAC
1-142d Ord Det (EOD)
5-DIO
1-ASB
1-DPCA
1-Safety Manager
1-Adjutant
2-CG TUSA ATTN: AJAGP-S
2-CG TUSA ATTN: AJAGL-D-S-S

RPO Change From MAJ Wickham to Mr. Daniel this date

Form AEC-313
8-64
10 CFR 30

UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Form approved
Budget Bureau No. 38-R0027

INSTRUCTIONS. - Complete Items 1 through 16 if this is an initial application or an application for renewal of a license. Information contained in previous applications filed with the Commission with respect to Items 8 through 15 may be incorporated by reference provided references are clear and specific. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail two copies to: U.S. Atomic Energy Commission, Washington, D.C., 20545, Attention: Isotopes Branch, Division of Materials Licensing. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30, and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20.

1. (a) NAME AND STREET ADDRESS OF APPLICANT. (Institution, firm, hospital, person, etc. Include ZIP Code.)

COMMANDER, US Army School/Training Center
Fort McClellan, Alabama 36201

ATTN: AJMGP-S-S

(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. (If different from 1 (a). Include ZIP Code.)

Material is residual contamination in three places at Fort McClellan, all within fenced area behind Building 3182.

2. DEPARTMENT TO USE BYPRODUCT MATERIAL

Material will not be used. The Fort McClellan Radiological Protection Officer will be the action officer.

3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.) Material formerly under BML-1-2861-1, which will be cancelled 24 Jun 73. THIS IS NOT A RENEWAL OR AMENDMENT APPLICATION.

4. INDIVIDUAL USER(S). (Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.)

NO USERS

5. RADIATION PROTECTION OFFICER. (Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.)

Mr. Charlie U. Daniel, Jr.

6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.)

Primarily Cobalt-60 (Presence verified by United States Army Enviromental Hygiene Agency (USAEHA)).
Some Cesium-137 (presence suspected)

(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)

Chemical form is not known. Physical form is small solid particles absorbed and adsorbed onto permanent metal and concrete surfaces in three places, all within the fenced area behind Building 3182. Contained within this area is Building 3192, formerly known and referred to as the Hot Cell Facility. Maximum dose rate is 65 mr/hr. Precise curiage unknown; estimated amount is 10 millicuries. See map attached to proposed Post Regulation, "Residual Radiological Contamination Safety Program", for locations of contamination.
Recent wipe tests show that, even after decontamination efforts considerable removable contamination exists within the Hot Cell portion of building 3192 (up to 550,000 dpm). This portion of the building has been walled off for safety reasons. Decontamination of USACMLCS at Fort McClellan has been carried out in accordance with U S Army Enviromental Hygiene Agency Report 45-011-73 and AEC Region II Director of Regulatory Operations guidance, both of which sources recommended leaving these three places contaminated due to time, money, and hazard difficulty in decon.

7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

Material is residual contamination and cannot be used in the normal sense of the word. No use of any type is planned.

(Continued on reverse side)

TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4. (Use supplemental sheets if necessary)

8. TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB (Circle answer)	FORMAL COURSE (Circle answer)
a. Principles and practices of radiation protection	Radiological Safety Course USACMLCS, Ft McClellan, AL	88 hrs	Yes No	(Yes) No
b. Radioactivity measurement standardization and monitoring techniques and instruments	same as above		Yes No	(Yes) No
c. Mathematics and calculations basic to the use and measurement of radioactivity	same as above		Yes No	(Yes) No
d. Biological effects of radiation	same as above		Yes No	(Yes) No

9. EXPERIENCE WITH RADIATION (Actual use of radioisotopes or equivalent experience)

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
SR-Y-90	25mCi (TS-784/PD)	USAIC, Fort Benning, GA	Jan 60-Mar 64	Calibration (RPO)
15,000 Ci assorted isotopes		USAS/TC, Fort McClellan, AL	Apr 64 - to date	Inspection (RPO and Alt RPO during this period)

10. RADIATION DETECTION INSTRUMENTS. (Use supplemental sheets if necessary.)

TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSITIVITY RANGE (mr/hr)	WINDOW THICKNESS (mg/cm²)	USE (Monitoring, surveying, measuring)
AN/PDR-27	1	beta-gamma	.01 mr/hr to ½ r/hr	3-4mg/cm²	monitoring

11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE.
Routine Army calibration (every 6 months at Directorate of Industrial Operations at Fort McClellan, AL)

12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film badges, specify method of calibrating and processing, or name of supplier.)
Film badges are available from Noble Army Hospital, Fort McClellan, but use of them is planned only for monitors or others who must work in close proximity to the hazard.

INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS IN DUPLICATE

13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, fire hazards, etc. Explanatory sketch of facility is attached. (Circle answer) Yes No Multi-Curie handling capability exists in Hot Cell but controls have been disconnected and cell has been walled off.

14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source. A safety program has been devised – see attached paper.

15. WASTE DISPOSAL. If a commercial waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved.
No wastes will be generated as a result of this license.

CERTIFICATE (This item must be completed by applicant)

16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

Date May 7 65

J. W. Wallace Jr.
Applicant named in item 1

By: JOSIAH A. WALLACE, JR.
Colonel, FA
Commanding
Title of certifying official

WARNING.—18 U. S. C., Section 1001; Act of June 25, 1948; 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

* U.S. GOVERNMENT PRINTING OFFICE : 1966 O—316-327

DEPARTMENT OF THE AR
EADQUARTERS, US ARMY SCHOOL/TRA IG CENTER
FORT MC CLELLAN, ALABAMA 36_01

4 May 1973

AJMGP-S-S

SUBJECT: Atomic Energy Commission License Application

THRU: Commanding General, Third US Army, ATTN: AJAGL-M-M
Fort McPherson, Georgia 30330
Commanding General, US Continental Army Command,
ATTN: ATLOG-MAT-EQ, Fort Monroe, Virginia 23351

TO: HQDA (DALO-MAE) WASH DC 20310

1. References:

a. Title 10, Code of Federal Regulations, Part 30.

b. AR 700-52, Licensing and Control of Scurces of Ionizing Radiation.

c. AEC Byproduct Material License 01-02861-01, with Amendments 1 through 17.

2. Request that inclosed new license application be approved and an AEC License issued.

FOR THE COMMANDER:

Larry D. Lillard

LARRY D. LILLARD
Major, AGC
Adjutant General

2 Incl
1. Appl for AEC Lic
2. Proposed Reg

Mr Daniel submitted RIO change 3 May
Later, Post can submit request for exemption from RP Comm rqmt.

DEPARTMENT OF THE ARMY
Headquarters, US Army School/Training Center
Fort McClellan, Alabama 36201

FORT MCCLELLAN
REGULATION 385-___ (dated)

SAFETY

RESIDUAL RADIOLOGICAL CONTAMINATION SAFETY PROGRAM

1. Purpose: To prescribe the policies and procedures necessary to minimize the exposure of personnel to nuclear radiation contained in residual contamination and to insure periodic assessment of the residues.

2. Scope: This regulations is applicable to all personnel assigned or attached to Fort McClellan and have occasion to enter the area to the rear of building 3182.

3. Objective: To prescribe standards and procedures necessary to insure that both recurring and non-recurring access to the area at the rear of building 3182 is limited, that awareness of the hazardous conditions are insured, that required maintenance is performed, that periodic assessment by both on and off post agencies is accomplished, and that proper advice is available in the event of an emergency involving the controlled area. (See attached map at inclosure 1).

4. Organization and Responsibilities: The Fort McClellan Radiological Protection Officer, appointed in accordance with AR 40-14, will be responsible in the name of the Installation Commander, for insuring that all provisions of this regulation are implemented. No personnel, other than those who work under the supervision of the Radiological Protection Officer, are specifically tasked in connection with this regulation, except that all personnel at Fort

McClellan will abide by the decisions of the Radiological Protection Officer regarding matters involving the radioactive contamination, and will provide necessary support to the Radiological Protection Officer within their capabilities.

5. Radiation Safety Procedures:

a. The area located immediately behind building 3182 will continue to be fenced and will be a limited access area, with access controlled by the Fort McClellan Radiological Protection Officer. All personnel desiring entrance to this area will insure that the Radiological Protection Officer is informed of the details of their activities within the area and grants them permission to enter. This includes both recurring access, such as for maintenance of the area and building or classes conducted in building 3192, and non-recurring access, such as one-time tours. The Radiological Protection Officer will regularly schedule maintenance access to assure proper maintenance services.

b. The eight existing radiation warning signs will be maintained as erected and instructions will be fully complied with at all times. (See inclosure 2).

c. The control valves and switches for the liquid waste disposal apparatus will be operated only by personnel authorized by the Radiological Protection Officer. The access panels will be kept secured at all times.

d. Periodic monitoring will be conducted by the Radiological Protection Officer, at intervals at his discretion, with specific attention devoted to containment of the hazard and observation of its decay, and a record will be maintained of monitoring results.

e. Regularly scheduled visits by monitors of the U S Army Enviromental Hygiene Agency Laboratory for the Southeastern United States will be requested every six months by the Radiological Protection Officer. In the event a semi-annual visit is missed once, no special action need be taken. If two visits are missed the Radiological Protection Officer will perform wipe tests on each of the three areas of contamination; five on the hot cell environs and one each on the liquid waste disposal apparatus well by building 3180, with three others to be taken at points of the Radiological Protection Officer's discretion, for a total of 10 wipes. These wipes will be performed as directed in NBS Handbook 92, Chapter 5, and will be mailed in for analysis to the U S Army Enviromental Hygiene Agency using the procedure directed in AR 55-55, paragraph 3-13.

f. In the event of an emergency situation involving possible release or dispersion of the radioactive material, immediate contact will be made with the U S Army Enviromental Hygiene Agency authorities by the Radiological Protection Officer requesting advice, and assistance if necessary.

g. Film badges will be drawn from and returned for processing to Noble Army Hospital for use by monitors or others who must work in close proximity to the residual contamination. Post Enginner building maintenance will not fall in this category, except in special cases. The Radiological Protection Officer will make the decision as to who is to be film badged.

6. References:

a. AR 40-14, Control and Recording Procedures for Occupational Exposure to Ionizing Radiation, 29 Sep 66.

b. National Bureau of Standards Handbook 92, Safe Handling of Radioactive Materials, 9 Mar 64.

c. AR 55-55, Transportation of Radioactive and Fissile Materials Other Than Weapons, Nov 70.

FOR THE COMMANDER:

2 Incls
as

LARRY D. LILLARD
Major, AGC
Adjutant General

OFFICIAL:

G. B. ATWELL
CPT, AGC
Asst Adjutant General

DISTRIBUTION:
A

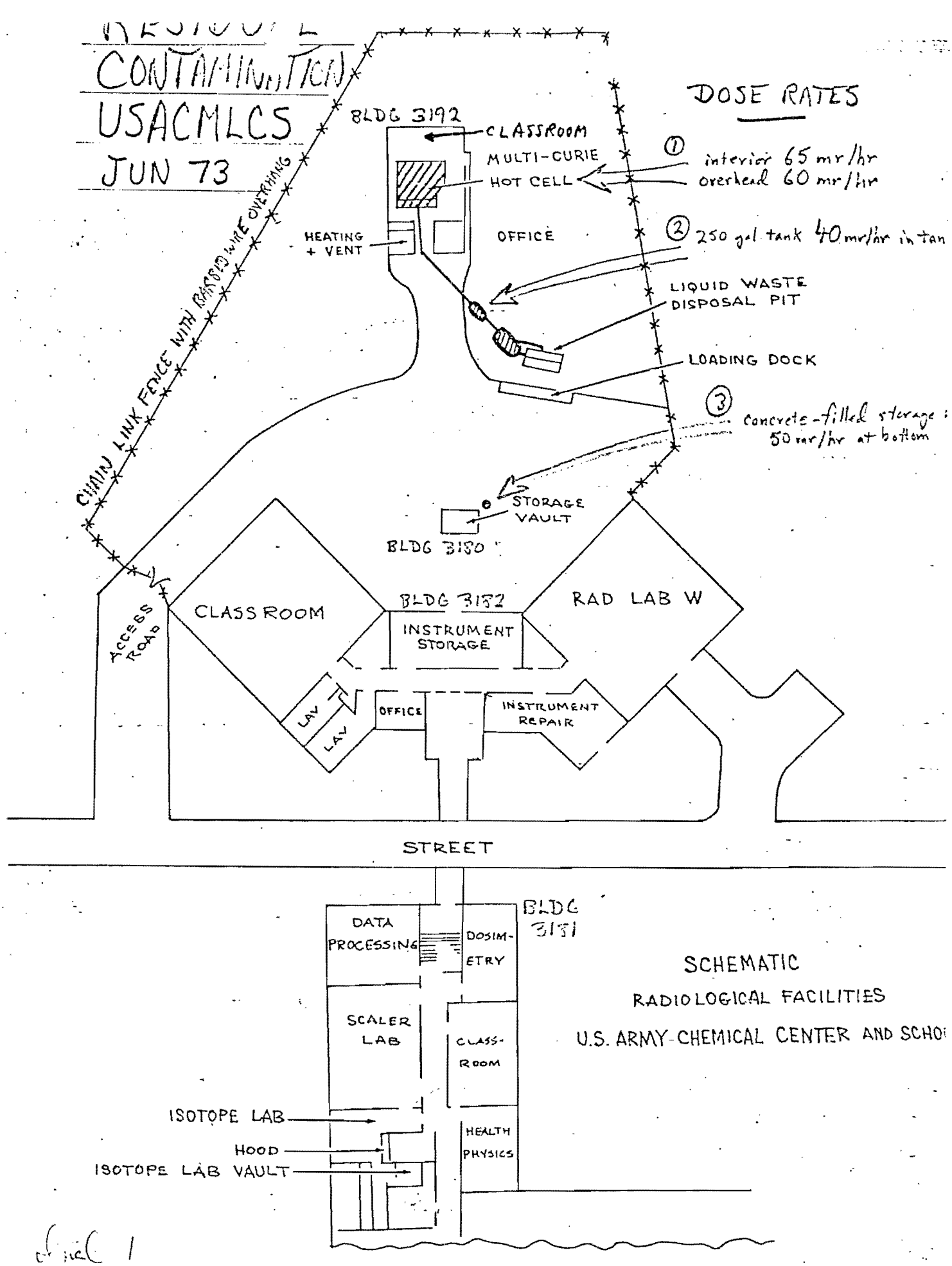
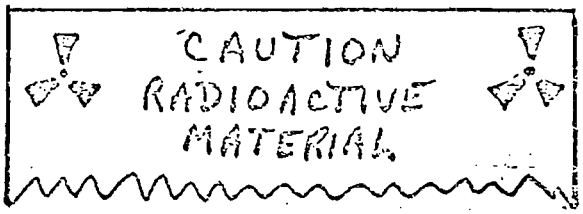

RESIDUAL
CONTAMINATION
USACMLCS
JUN 73
DOSE RATES
BLDG 3192
CLASSROOM
MULTI-CURIE
HOT CELL
HEATING + VENT
OFFICE
① interior 65 mr/hr
overhead 60 mr/hr
② 250 gal tank 40 mr/hr in tan
LIQUID WASTE DISPOSAL PIT
LOADING DOCK
③ Concrete-filled storage
50 mr/hr at bottom
CHAIN LINK FENCE WITH BARBED WIRE OVERHANG
STORAGE VAULT
BLDG 3150
ACCESS ROAD
CLASS ROOM
BLDG 3152
INSTRUMENT STORAGE
RAD LAB W
LAV
LAV
OFFICE
INSTRUMENT REPAIR
STREET
BLDG 3151
DATA PROCESSING
DOSIM-ETRY
SCALER LAB
CLASS-ROOM
ISOTOPE LAB
HOOD
ISOTOPE LAB VAULT
HEALTH PHYSICS
SCHEMATIC
RADIOLOGICAL FACILITIES
U.S. ARMY-CHEMICAL CENTER AND SCHO

Fig 1

SIGNS:

All signs IAW Ft McClellan Reg 420-5, and AR 385-30 para 3-1Q, 3-4, 3-5, FIG 3-1.

All 8 signs will be lettered at the TOP as follows:



← radiation trefoil magenta on yellow background

← letters in black on yellow background

Below this, on EACH sign, will be lettered explanatory material, shown be

SIGN #1
SIGN #2 } EXTERIOR SIGNS. LETTER ON BOTH SIDES.

BURIED RADIATION HAZARD
Tanks and connecting pipes contaminated with Cobalt-60 40 mR/hr in Feb 73 three to eleven feet below surface between signs. No digging.

LOCATIONS:
One by 3192 driveway near building (on pos
One by Waste Valve pit on 3192 side (on post

(Two posts required)

SIGN #3 EXTERIOR SIGN. ONE SIDED.

RADIATION HAZARD
Portions of interior of this half of building contaminated with Cobalt-60. Enter this door only with permission from Ft. McClellan Radiological Protection Officer phone 4723.

LOCATION:
Affix to North door, 31
(Metal door)

SIGN #4 INTERIOR SIGN. ONE SIDED

WARNING

Do not remove or penetrate this barrier, as this would allow access to the hot cell portion of building, which contains radioactive contamination.

LOCATION:

Affix to "fake-wall" barrier to be placed in 3192. (Wood barrier)

SIGN #5 INTERIOR SIGN. ONE SIDED.

RADIATION HAZARD

Interior of hot cell is contaminated with Cobalt-60 65 mR/hr maximum in Feb 73.

Do not attempt to enter.

LOCATION:

Affix to hot cell 17-ton door, Bldg 3192. (concrete & steel door)

SIGN #6 INTERIOR SIGN. ONE SIDED.

RADIATION HAZARD

Hot cell behind this barrier and some overhead ducts are contaminated with Cobalt-60 65 mR/hr maximum in Feb 73. Do not cross this barrier or work overhead without a radiation meter and approval from Ft McClellan Radiological Protection Officer phone 4723.

LOCATION:

Affix to barrier to be placed in hot cell end of building 3192. (Wood barrier)

WARNING
This door is locked from the other side to prevent access to radioactively contaminated areas within the building. Do not attempt to enter.

LOCATION:
Affix to door between classroom and hot cell, on classroom side. (3192)
(Metal louvered door)

SIGN #8 EXTERIOR SIGN. ONE SIDED.

IN CASE OF EMERGENCY
During Duty Hours Call:
McClellan Safety Office
phone 4723
After Duty Hours Call:
Staff Duty Officer
phone 3821

THIS IS BUILDING 3192

LOCATION:
Affix to West door, 3192.
(Metal door)

457

ROUTINE ********** • U N C L A S S I F I E D • **********

PT C1197 128 060939

RTTUZYUW RUCLSS442457 1271657-UUUU--RUCLBWA.

ZNR UUUUU

R 071657Z MAY 73

FM COMNAVELECSYSCOM WASH DC

TO RUCLBWA/CDR USASTC FORT MCCLELLAN AL

INFO RUCLBDL/NAVELECSYSCOMSEDIV CHARLESTON SC

RUEBPAA/NOL/WO SILVER SPRING MD

BT

UNCLAS //N02673//

SHIPMENT OF SER IC AN/UDM-1A RADIAC CALIBRATOR

A. YOUR 3016592 APR 73 (NOTAL)

I. IAW PARA 16U OF REF A USASTC MAY SHIP SUBJ EQUIP

TO: NEC921

RECEIVING OFFICER

NAVAL ORDNANCE LABORATORY

WHITE OAK

SILVER SPRING, MD 20910

M/F: DOH CASE, CODE 223

AEC LICENSE 19-00166-IC APPLIES.

2. REQ ADV ALCON SHIPDA.

BT

#2457

D 10/25

TLO:

(from Nelle Carnes)

USACMLCS ACTION:

① Copy to NAVTRAU LCDR Nelles and LT Adler informed.

② Phoned Mr. Dixon 584-3507 Read this message to him.

③ He said container went out Wed 9 May from Edgewood.

ROUTINE ********** • U N C L A S S I F I E D • **********

101312Z May 73

01 02 091630Z RR RR UUUU

NC MSC # 0246

CDR USASTC FT MCCLELLAN AL //ATSCH-HP//

DA WASH DC //DALO-MAS-I//

INFO: CDR CONARC FT MONROE VA //ATLOG-MAT-EQ//

CDR APG ABERDEEN PG MD //AMXBR-XM-HP/USAEHA-RH//

UNCLAS

Subj: Disposition of Radioactive Material

A. Msg ATSCH-HP 301659Z Apr 73, subject as above.

B. Msg 7236 DALO-MAS-I 031916Z May 73, subject as above (NOTAL).

1. US Army Chemical Center & School (USACMLCS) is proceeding with plans outlined in Ref A on the basis of the implied approval in Ref B. We have some questions and comments as follows:

a. Will there be any special AEC conditions or requirements for disestablishment of our facility?

b. Has article 5c of AEC interagency agreements 1003 and 3039, relating to our special nuclear material, been satisfied? That is, if Ref A, which was addressed to the lessee, commission, and agency, is not sufficient order in the sense of article 5c, what further paperwork is required? The form and procedure for the order are not spelled out in the agreements.

C. J. WICKSTROM, MAJ, ATSCH-HP/3937/9May73

LARRY D. LILLARD
Major, AGC
Adjutant General

UNCLASSIFIED

02 02 091630Z

c. We believe that a nuclear material transaction report, form AEC-741, is not required since our total quantity of special nuclear material is under one gram. Is this correct?

d. Ref para 1a and 1c of Ref B, USACMLCS will TWX DALO-MAS-I when all radioactive material other than residual contamination is gone. Request you hold our message on cancellations and application on residual contamination until receipt of this TWX, expected to be late May, and renew consideration of our submissions at that time.

e. Re para 1c of Ref B, application for new license for residual contamination, rather than amendment to existing license, was submitted to higher HQ on 4 May before receipt of Ref B. This action was taken IAW para 9g of USAERA radiation special study 43-041-73.

2. Request that AMXBR-XM-MP be made INFO addressee on reply.

LARRY D. LILLARD
Major, AGC
Adjutant General

UNCLASSIFIED

ATSCM-HP
SUBJECT: Disposition of Radioactive Material

MFR: This message has been advised both by the CONARC RPO, MAJ Stevens, in fonecon 7 May 73, and by Mr. Guinn of AEC-Atlanta, in fonecon 8 May 73. The purpose is to iron out some details that are not clear after receipt of DA's reply.

CHARLES J. WICKSTROM, MAJ, CmlC, C, Health Phy Div/9 May 73/kh/3937

COORD: USACMLCS

USAS/TC

Asst Comdt EMS 11 May

DPCA: Safety Mgr Initialled Other Copy c.

Ofc of Log Ref

Rad Com BLE

Disestablishment Project Officer RGM

APPROVED: Comdt

CF: Safety Mgr
USACMLCS Reading File & Comeback
AG Reading File
Orig +1 to Comm
Disest. Proj. Off. (USACMLCS)

5 GAO 3000
1103-279-08

MEMORANDUM

TRANSPORTATION COMPANY
Roadway Express In R492

TENDERED TO →

TRAFFIC CONTROL NO.
NXX15124A

STOP THIS CAR OR TRUCK AT

FOR

IMPORTANT
When the original of this bill of lading is surrendered to the initial carrier a memorandum copy thereof so certified must be forwarded to the consignee immediately.

CAR-TRUCK LGTH. FT., INS.† ORDERED	FURNISHED	MARKED CAPACITY† ORDERED	FURNISHED	DATE FURNISHED†	DATE B/L ISSUED
					16May73

†FURNISH THIS INFORMATION IN CASE OF CARLOAD OR TRUCKLOAD SHIPMENTS ONLY.

CAR INITIALS AND NO.
Trailer No. 35831
Truck No. 5711
TRUCK NO.

KIND
MV

FROM
Ft McClellan,Al
(SHIPPING POINT) →

RECEIVED BY THE TRANSPORTATION COMPANY NAMED ABOVE, SUBJECT TO CONDITIONS NAMED ON THE REVERSE OF THE ORIGINAL BILL OF LADING, THE PROPERTY HEREINAFTER DESCRIBED, IN APPARENT GOOD ORDER AND CONDITION (CONTENTS AND VALUE UNKNOWN), TO BE FORWARDED TO DESTINATION BY THE SAID COMPANY AND CONNECTING LINES, THERE TO BE DELIVERED IN LIKE GOOD ORDER AND CONDITION TO SAID CONSIGNEE.

FULL NAME OF SHIPPER
A31QLW Transportation Officer
Ft McClellan,Al 36201

CONSIGNEE (NAME AND MAILING ADDRESS)
Transportation Officer (A23TAQ)
U.S.Army Ordanace Center & School
Aberdeen Proving Ground,
Edgewood, Md. 21005

MARKS
MF: Bldg 5685 Attn: Mr.Earl Wright
Edgewood Arsenal,MD
"This is to certify that the above named artic
are properly classified,described,packaged,mark
and labeled,and are in proper condition for tra
according to applicable regs of DOT.

DESTINATION
Edgewood, Md DDD: 18 May 73 PM

(VIA (ROUTE SHIPMENT ONLY) WHEN SOME SUBSTANTIAL INTEREST OF THE GOVERNMENT IS SERVED THEREBY)
"THIS SHIPMENT MUST NOT BE TRIPLEASED EQUIPMENT"

CHARGES TO BE BILLED TO (DEPARTMENT OR ESTABLISHMENT, BUREAU OR SERVICE AND LOCATIO
FINANCE CENTER, TDIV
U.S. ARMY
INDIANAPOLIS, INDIANA 46249

SEAL NOS.
Roadway Exp 521984

APPLIED BY: Shipper at origin

FOR CARRIER'S USE ONLY
WAYBILL NO. | FREIGHT BILL NO.

APPROPRIATION CHARGEABLE 2132020 53-7230 P720000-2200
RSAB 301-038 BWN 45-375-73

CONTRACTORS WILL RETURN UNUSED OR CANCELED BILLS OF LADING TO GOVERNMENT OFFICE FROM WHICH RECEIVED.

PACKAGES NO.	KIND	DESCRIPTION OF ARTICLES (USE CARRIERS' CLASSIFICATION OR TARIFF DESCRIPTION IF POSSIBLE, OTHERWISE A CLEAR NONTECHNICAL DESCRIPTION)	NUMBERS ON PACKAGES	Actual WEIGHTS*
43	BX	Vou No, 3135-0063 NMFC 164900,Radioactive Materials LABELED CARGO YELLOW TYPE II & III TENDERED AS ONE TRUCK LOAD LOADING PERFORMED BY FtMcClellan,Al,UNLOADING PERFORMED BY _____. "DO NOT BREAK SEALS EXCEPT IN CASE OF EMERGENCY OR UPON PRIOR AUTHORITY OF THE CONSIGNOR OR CONSIGNEE. IF FOUND BROKEN OR IF BROKEN FOR EMERGENCY REASONS,APPLY CARRIER'S SEALS AS SOON AS POS AND IMMEDIATELY NOTIFY BOTH THE CONSIGNOR AND THE CONSIGNEE." "CARRIER WAS CONTACTED IN ADVANCE FOR REQUIRED SERVICES" "SIGNATURE SECURITY SERVICE REQUESTED. DATE: 17 May 73 SIG: _____ TA FOR TO TITLE: WARDELL SMITH,CPT,TC,T.O.	53	2053 AS 18,000 KIN

$496 or 18,000
est # 893.80

IF THIS SHIPMENT FULLY LOADS THE CAR OR TRUCK USED, CHECK ☐ YES

TARIFF OR SPECIAL RATE AUTHORITIES (C/L-T/L OR VOL. ONLY)
SMCRC 504D

CARRIER FURNISHED ☒ PICK UP– ☐ TRAP CAR–
SERVICE AT ORIGIN INITIALS OF SHIPPER'S AGENT MS

CERTIFICATE OF ISSUING OFFICER

I CERTIFY THAT THIS SHIPMENT IS MADE PURSUANT TO THE TERMS OF CO
OR PURCHASE ORDER NO. Msg, P152254Feb73, Subj, Disental of the USACALCS & DD 1149 FO, USACALCS, FtMcC
OR OTHER AUTHORITY FOR SHIPMENT. F.O.B. POINT NAMED IN CONTRACT Ft McClellan,Al.

NAME OF TRANSPORTATION COMPANY
ROADWAY EXPRESS INC. R492

DATE OF RECEIPT OF SHIPMENT 5/17/73

INITIAL CARRIER'S AGENT, BY SIGNATURE BELOW, CERTIFIES HE RECEIVED THE ORIGINAL BILL OF LADING.
☐ YES (INDICATE BY CHECK)

ISSUING OFFICE Trans. O. Ft McClellan,Al.

SIGNATURE OF AGENT [signature] PER 5/17/73

SIGNATURE OF ISSUING OFFICER _____ TA FOR
DATE 16May73 TITLE WARDELL SMITH,CPT,TC,T.O.

MEMORANDUM COPY

9

CARRIER FURNISHED ☐ DELIVERY– ☐ TF
SERVICE AT DESTINATION.

*SHOW ALSO CUBIC MEASUREMENTS FOR SHIPMENTS VIA AIR, TRUCK OR WATER CARRIER, IN CASES WHERE REQUIRED.

☆U. S. GOVERNMENT PRINTING OFFICE: 1971 — 427-4

REQUISITION AND INVOICE/SHIPPING DOCUMENT

SHEET NO.	NO. OF SHEETS	5. REQUISITION DATE	6. REQUISITION NUMBER
1	1		

1. FROM:
Property Officer, USACMLCS, Fort McClellan, Alabama 36201

7. DATE MATERIEL REQUIRED:

8. PRIORITY:

2. TO:
Mr. Earl Wright
Building 5685
Edgewood Arsenal, MD 21010

9. AUTHORITY OR PURPOSE: Message P1522542 Feb 73, subj: Disestablishment of the USACMLCS.

10. SIGNATURE: Ralph C. Smith

11a. VOUCHER NUMBER AND DATE: 3135-0063

3. SHIP TO - MARK FOR:

12. DATE SHIPPED: 17 May 1973

b.

13. MODE OF SHIPMENT: EXCLUSIVE VEHICLE(Motor) H-0,865,539

14. BILL OF LADING NUMBER:

15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO.: Roadway Express Inc.

4. APPROPRIATION SYMBOL AND SUBHEAD	OBJECT CLASS	EXPENDITURE ACCOUNT (From)	EXPENDITURE ACCOUNT (To)	CHARGEABLE ACTIVITY	BUREAU CONTROL ACTIVITY NO.	BUREAU CONTROL NO.	AMOUNT
*Second Destination							

ITEM NO. (a)	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIEL AND/OR SERVICES (b)	UNIT OF ISSUE (c)	QUANTITY REQUESTED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NOS. (g)	UNIT PRICE (h)	TOTAL COST (i)
1.	Radioactive sources used to support instructions. See attached inclosure.	ea	43	43				

"This is to certify that the above named articles are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

Charles J. Wickstrom
CHARLES J. WICKSTROM
MAJ, CmlC
C, Health Physics Division

PRIORITY SHIPMENT REQUESTED.
Ship not later than 25 May 73.

Jack Vanderbleek
JACK VANDERBLEEK
COL, CMLC
Commandant

*Ref DF, 23 Feb 1973, subject: Disestablishment of the USACMLCS, cost of movement of equipment by commercial carrier or contract, will be charged to Program 7.

16. TRANSPORTATION VIA MATS OR MSTS CHARGEABLE TO:

17. SPECIAL HANDLING:

18. RECAPITULATION OF SHIPMENT	ISSUED BY	TOTAL CONTAINERS	TYPE CONTAINER	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE
		43		Radioactive sources	2052.5	53.8
	CHECKED BY					
	PACKED BY					
		43		← TOTAL →	2052.5	53.8

19. RECEIPT				
	CONTAINERS RECEIVED EXCEPT AS NOTED	DATE	BY	SHEET TOTAL
	QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	BY	GRAND TOTAL
	POSTED	DATE	BY	20. RECEIVER'S VOUCHER NO

FORM 1 MAR 59 1149

51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

REPLACES EDITION OF 1 MAY 58 WHICH MAY BE USED

SPECIAL INSTRUCTIONS FOR MOTOR VEHICLE DRIVERS

DATE: 17 May 77

TO: (Carrier's Name and Trailer No. or)
ROADWAY – 35831

FROM: (Station issuing Instructions)
Fort McClellan, AL 36201

BILL OF LADING NUMBER
HC845539

PLACARDS (Specified by ICC Reg.)
Radioactive

THIS TRUCK IS LOADED WITH (Commodity Description)
Radioactive Materials, N. O. S.
Radioactive Materials, Small quantities

IN CASE OF FIRE

1. If any part of the truck outside of actual contents catches fire, take truck to a clear or uninhabited area, if practicable, and/or attempt to put fire out immediately with hand extinguishers or other available means. If practicable, ask someone to notify the fire department. Call to the attention of fire or police personnel at the scene of the fire the information on this form.

2. Fires may be fought until the flames reach the cargo, at which time firemen and other personnel should be withdrawn to a safe distance, as noted in 5 below.

3. If in convoy, other trucks proceed to safe distance.

4. Water may be used on this cargo [XX] Yes [ ] No
(See Other Specific Precautions below)

5. Firemen should not approach closer than 30 feet* from fire when the fire has reached the cargo, except for Group VI. *(See Other Specific Precautions below)*

6. Public should not approach closer than 300 feet* from fire.

7. As soon as practical, notify the nearest military installation.

IN CASE OF ACCIDENT

1. Set brake and block vehicle to prevent movement.

2. Post flags by day, and red electric lanterns or reflectors by night, warning traffic approaching from each direction.

3. Call for ambulance, if necessary.

4. Notify nearest police.

5. Notify nearest military installation if cargo is damaged.

NOTIFY: *(By phone or wire as soon as possible)*
MAJ Wickstrom 205-238-3937/3141
Mr. Earl Wright 301-671-2710/3096

IN CASE OF BREAKDOWN

1. Do not attempt to tow loaded vehicle.

2. Post flags by day and red electric lanterns or reflectors by night, warning traffic approaching from each direction.

GENERAL PRECAUTIONS

1. While operating over public roads, keep at least 300 feet from trucks loaded with explosives or other dangerous articles; a greater minimum distance must be maintained if required by state or municipal regulations.

2. Protect the public from the hazards of the cargo.

3. Do not allow smoking or use of matches or lighters in or near the vehicle.

4. Obey all state and local traffic regulations.

5. Do not exceed posted speed limits.

6. Stop at all railroad crossings

7. Use designated routes. Wherever possible, avoid congested residential or business areas.

8. Do not permit unauthorized persons to ride on vehicles.

9. At other than carrier rest stops or interchange points, select safe parking space at stopping locations designated by the carrier. Vehicles carrying explosives should not group together at these stopping locations.

10. Deliver shipment to receiving installation during normal working hours and only to persons authorized to accept it.

OTHER SPECIFIC PRECAUTIONS

Water may be used on a cargo fire, avoid high pressure water; if possible, use a "fog. If available in quantity, CO_2 is preferred.---Once fire reaches cargo, fire should be fought from up wind; all personnel should remain up wind and away from smoke.

These instructions must be transferred to each subsequent driver for turn-in at final destination. If more than 3 drivers are involved, the additional signatures should be made on an extra sheet and attached hereto.

SIGNATURE OF SHIPPER REPRESENTATIVE
Chas Wickstrom

SIGNATURE OF FIRST DRIVER
C-E Edwards

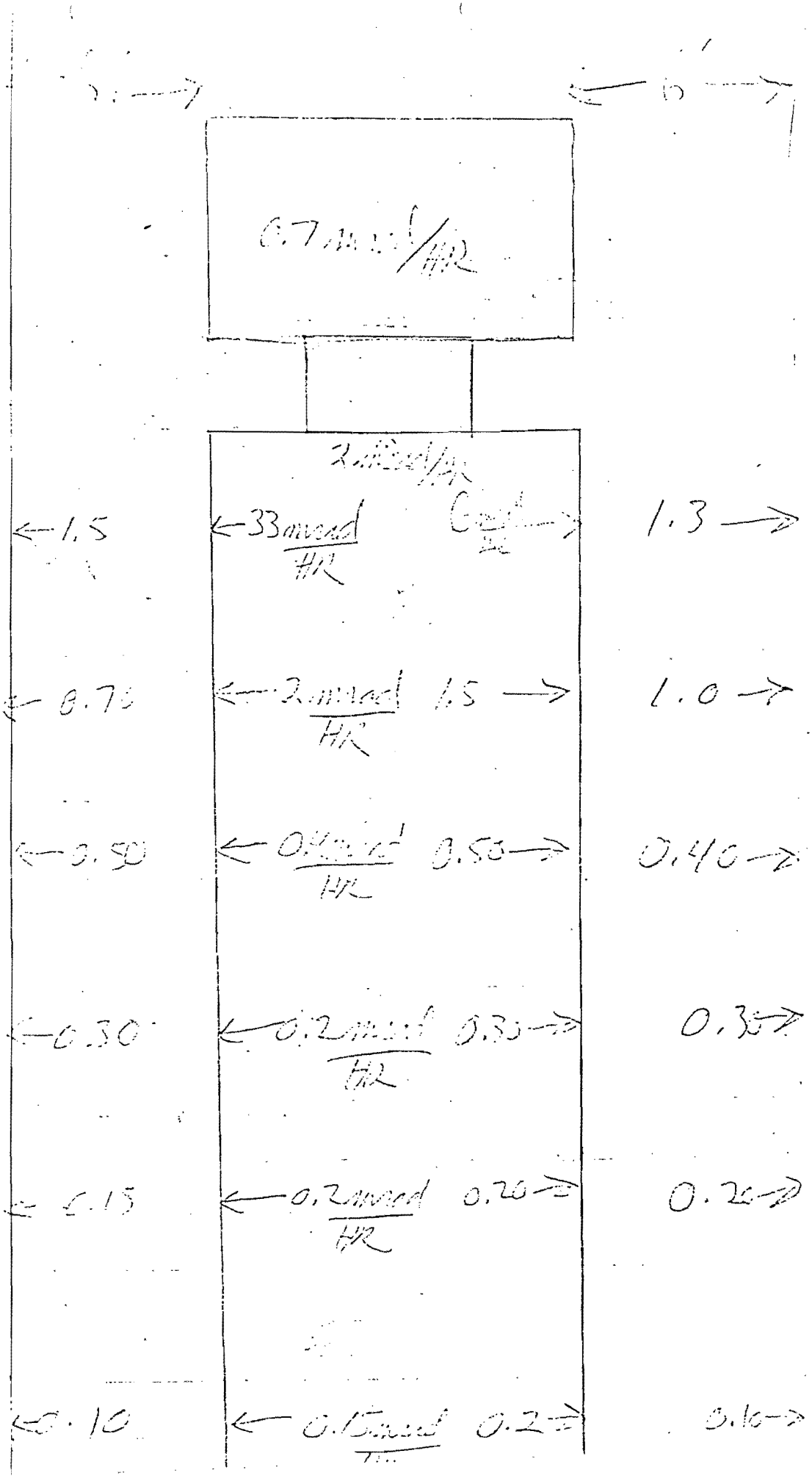
SIGNATURE OF SECOND DRIVER

SIGNATURE OF THIRD DRIVER

* *The distances shown are minimum; greater distances should be used whenever possible.*

DD FORM 1 JUN 66 836

REPLACES EDITION OF 1 MAR 64 WHICH WILL BE USED.


0.7 mm/HR
2 mm/HR
1.5
33 mm/HR
1.3
0.75
2 mm/HR
1.5
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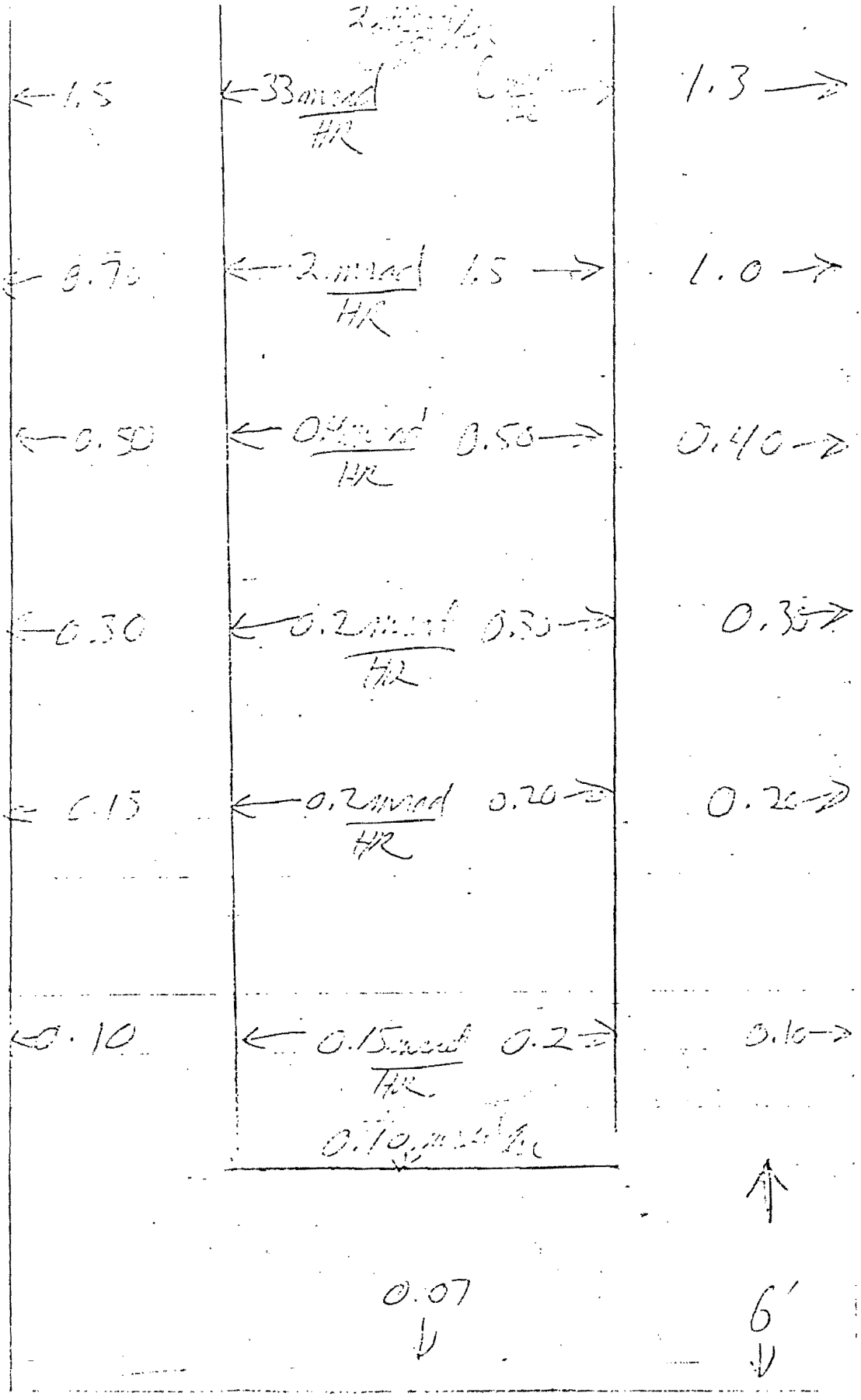

1.5
3.3 cm/hr
1.3
0.75
2.1 cm/hr
1.5
1.0
0.50
0.4 cm/hr
0.50
0.40
0.30
0.2 cm/hr
0.30
0.35
0.15
0.2 cm/hr
0.20
0.20
0.10
0.15 cm/hr
0.2
0.10
0.10 cm/hr
0.07
6'

52/96: Radiation

ATSCM-HP
Dir, Ofc of Log

Request for Radioactive Materials Shipment
C, Health Phy Div

9 May 73
SSG Truffa/kh/3937

1. Request your office make appropriate arrangements to obtain a "sole use" commercial van for the shipment of radioactive material in Inclosure 1 to the following address: Mr. Earl Wright, Bldg 5685, Edgewood Arsenal, MD 21010.

2. Although all the radioactive material is not "ready to go", this request is being submitted to allow the installation Transportation Office the lead time needed to effec a late May shipment. These materials must be moved out by 25 May 73.

3. The radioactive materials listed in Inclosure 1 are either in or will be in the configuration listed by the time shipment is made.

4. For safety reasons, the radioactive material will remain at USACMLCS, and the van sent here for loading.

5. Health Physics personnel will supervise the loading, monitoring and marking of the van as well as the safety briefing of the driver.

6. The driver will then be sent to Transportation for inspection, sealing of the vehicle and completion of the shipping documents.

7. Request Health Physics Div be notified of all arrangements in time to arrange for personnel and equipment support (at least 4 working days prior to shipment).

8. Request Health Physics Div be furnished 4 copies of all shipping documents.

9. Request Ofc of Log take steps to delete the items listed in Inclosure 1 from the appropriate hand receipt.

10. Five copies of DA Form 2791-R, Radioactive Materials Movement, are attached as Inclosure 2.

11. Funds allocated for this shipment should be identified as "close-out" costs.

CHARLES J. WICKSTROM
MAJ, CmlC
Chief, Health Physics Division

2 Incl
as

CF: M/P & B Ofc

RADIOACTIVE MATERIALS PACKAGED FOR SHIPMENT

Container	Contents	Wt (lbs)	Cube(CuFt)
1/43	Radiac Calibrator, TS784A/PD, SN083A4167	30.5	0.9
2/43	Radiac Calibrator, TS784A/PD, SN066A4181	29.25	0.9
3/43	Radiac Calibrator, TS784A/PD, SN026A4043	29.5	0.9
4/43	Radiac Calibrator, TS784A/PD, SN029A3911	29.0	0.9
5/43	Radiac Calibrator, TS784A/PD, SN075A4150	29.25	0.9
6/43	Radiac Calibrator, TS784A/PD, SN059A4174	29.75	0.9
7/43	Radiac Calibrator, TS784A/PD, SN062A4122	30.0	0.9
8/43	Radiac Calibrator, TS784A/PD, SN151A4255	29.75	0.9
9/43	Radiac Calibrator, TS784A/PD, SN058A3900	29.25	0.9
10/43	Radiac Calibrator, TS784A/PD, SN072A4023	29.0	0.9
11/43	Radiac Calibrator, TS784A/PD, SN064A3931	30.0	0.9
12/43	Radiac Calibrator, TS784A/PD, SN055A3952	29.5	0.9
13/43	Radiac Calibrator, TS784A/PD, SN067A4050	29.25	0.9
14/43	Radiac Calibrator, TS784A/PD, SN070A4049	29.75	0.9
15/43	Radiac Calibrator, TS784A/PD, SN076A4180	30.0	0.9
16/43	Radiac Calibrator, TS784A/PD, SN065A3664	28.75	0.9
17/43	Radiac Calibrator, TS784A/PD, SN060A4035	29.5	0.9
18/43	Radiac Calibrator, TS784A/PD, SN011A3698	29.25	0.9
19/43	Radiac Calibrator, TS784A/PD, SN031A3896	29.75	0.9
20/43	Radiac Calibrator, TS784A/PD, SN063A3930	29.5	0.9

Incl 1

Container	Contents	Wt (lbs)	Cube(CuFt)
21/43	2-25 UCI CS-137 check sources, SN1598, 2455--60-1UCI Co60 lab sources, SN none--44-1UCI lab sources for determination of unknowns using Ca45, Co60, Sc46, Ce141, Au198, Cs137, Ag110m, Rb86--Scaler calibration sources ICN Co60 .0736 UCI, ICN Co-60 .0738 UCI, ICN Co-60 .0754 UCI, ICN Sim P-32 .0517 UCI, ICN Sim P-32 .0510 UCI, ICN Sim P-32 .0602 UCI, ICN C-14 5.37×10^4 dpm, ICN C-14 5.19×10^4 dpm, ICN C-14 4.81×10^4 dpm--Picker x-ray Na22 SN25-1314, Cs137 SN25-1313, Mn54 SN25-1312, Ba133 SN25-1311, Co60 SN 25-1315, Cs137 SN25-1213 ser 185, Co60 SN25-1215 Ser 185, 4 ea Cs137 SN25-1194.--3 liquid scintillation standards ICN C-14 4.55×10^4 dpm, C-14 4.99×10^5 dpm/ml (10ml), C-14 4.17×10^5 dpm/ml (10ml)--	24.0	1.2
22/43	85-Radioactive test sample Mx7338/PDR27 SNK-3065-K3149 incl	13.0	0.6
23/43	Radiac Calibrator AN/UDM-2 SN0005	47.0	1.7
24/43	2-Radiac Calibrator AN/UDM 6, SNA0016, A0019	24.5	0.8
25/43	2-Radiac Calibrator AN/UDM 6, SNA1132, A1154	25.5	0.8
26/43	2-Radiac Calibrator AN/UDM 6, SNA0013, A1114	24.5	0.8
27/43	2-Radiac Calibrator AN/UDM 6, SNA1155, A1130	25.0	0.8
28/43	3-Radiac Calibrator AN/UDM 6, SNA0021, A0015, A1115	31.0	0.8
29/43	3-Radiac Calibrator AN/UDM 6, SNA0002, A0014, A0023	30.0	0.8
30/43	3-Radiac Calibrator AN/UDM 6, SNA1133, A1113, A1131	34.0	0.9
31/43	50-Alpha Plates U233, SN Between 1-450 incl	35.0	0.7
32/43	50-Alpha Plates U233, SN Between 1-450 incl	27.0	0.7
33/43	50-Alpha Plates U233, SN Between 1-450 incl	27.0	0.7
34/43	50-Alpha Plates U233, SN Between 1-450 incl	29.0	0.7
35/43	50-Alpha Plates U233, SN Between 1-450 incl	27.0	0.7

Container	Contents	Wt (lbs)	Cube(CUFt)
36/43	50-Alpha Plates U233, SN Between 1-450 incl	28.0	0.7
37/43	50-Alpha Plates U233, SN Between 1-450 incl	28.0	0.7
38/43	50-Alpha Plates U233, SN Between 1-450 incl	28.0	0.7
39/43	50-Alpha Plates U233, SN Between 1-450 incl	30.0	0.7
40/43	9-Heat Sealed Plastic bags w/article of equipment or copper disc contaminated 1UCI C Ca45, SN 1, 4, 8, D, E, G, J, M, S--14-Heat sealed plastic bags w/article of equipment or copper disc contaminated 1UCI Ag110m SN, 2, 5, 7, B, C, H, I, K, N, Q, R, T, A2, B2	55.0	2.9
41/43	1-Source Set M3A1, SN D-39	185	3.75
42/43	1-Source Set M3A1, SN 748	185	3.75
43/43	6-Cs137 Stainless Steel capsules, SN60251-60256 inclusive	500	10

RADIOACTIVE MATERIALS MOVEMENT
[X] SHIPMENT [ ] RECEIPT
For use of this form, see AR 55-55; the proponent agency is Office of the Deputy Chief of Staff for Logistics.
(See instructions on reverse.)

DETAILS OF SHIPMENT

1. TO: (Include ZIP Code)	2. FROM: (Include ZIP Code)
Mr. Earl Wright Bldg 5685 Edgewood Arsenal, MD 21010	Commandant USACHLCS ATTN: ATSCM-HP Fort McClellan, AL 36201

3. SHIPMENT NUMBER	4. SECURITY CLASSIFICATION	5. MODE OF SHIPMENT (i.e., Railway Express)
	UNCLASSIFIED	

6. COMMODITY DESCRIPTION	7. RADIOACTIVITY	All readings in mrad/hr

CONTAINERS a	NUMBER OF ITEMS b	NOMENCLATURE c	QUANTITY, ISOTOPE AND FORM d	8. LEVEL AT SURFACE	8. LEVEL AT ONE METER
1/43	1	T5784A/PD Radiac Calibrator Sr-Y90, normal	20 millicuries	20	0.25
2/43	1	T5784A/PD Radiac Calibrator Sr-Y90, normal	20 millicuries	25	0.27
3/43	1	T5784A/PD Radiac Calibrator Sr-Y90, normal	20 millicuries	22	0.25
4/43	1	T5784A/PD Radiac Calibrator Sr-Y90, normal	20 millicuries (See cont sheet)	23	0.26

SHIPMENT
THE ABOVE DESCRIBED ARTICLES ARE PROPERLY CLASSIFIED, PACKAGED, MARKED, AND LABELED. THE ARTICLES ARE IN PROPER CONDITION FOR TRANSPORTATION AND THE SPREADABLE ACTIVITY AND DOSE RATES ARE WITHIN THE SPECIFIED LIMITS, AS PRESCRIBED BY APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION AND DEPARTMENT OF THE ARMY.

10. REMARKS Containers 1-20 inclusive, 22, 41, 42, 43 are labelled w/yellow III labels. Containers 21,23, 40 are labelled with yellow II labels. Containers 24-39 inclusive are exempt from specification packaging and marking IAW para 173.391 of Tariff 25.

9. SPECIAL PRECAUTIONS

None

11. SIGNATURE OF REPRESENTATIVE OF SHIPPER (Shipping Organization)	NAME AND TITLE	DATE
CHARLES J. WICKSTROM, MAJ, CmlC, C, Health Phy Div		9 May 73

11. SIGNATURE OF TRANSPORTATION OFFICER (Shipping Organization)	NAME AND TITLE	DATE

12. ORGANIZATION

DA FORM 2791-R, 1 Oct 70 REPLACES DA FORM 2791, 1 JUN 55, WHICH IS OBSOLETE.
(Paper size, 8" x 10½", image size, 7-4/10" x 10")

Front

Figure 3-7. DA Form 2791-R.

DA Form 2791-R, Item 6 (cont)

Containers	# of Items	Nomenclature	Qty, Isotope & Form	Level at Surface	Level at 1 Meter
5/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, normal	15	0.20
6/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, normal	23	0.23
7/43	1	TS784A/PD Radiac Calibrator	20 MCI, Sr-Y90 normal	17	0.22
8/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	11	0.21
9/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	23	0.25
10/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	26	0.25
11/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	23	0.27
12/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	18	0.18
13/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	22	0.25
14/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	18	0.18
15/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	18	0.22
16/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	17	0.16
17/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	22	0.23
18/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	13	0.15
19/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	26	0.30
20/43	1	TS784A/PD Radiac Calibrator	20 millicuries, Sr-Y90, Normal	14	0.12

DA Form 2791-R, Item 6 (cont)

Containers	# of Items	Nomenclature	Qty, Isotope & Form	Level at Surface	Level at 1 Meter
21/43	129	Lab Sources & Calibration Standards	Ea 1 UCI or less, Cs137, Co60, Ca45, Sc46, Ce141, Au198, Rb86, Ag110m, Sim P-32(nat uranium) C-14, Na22, Mn54, Ba133, normal	1.6	0.07
22/43	85	Radioactive Test Sample Mx7338/ PDR27	5MCI ea, Kr85, normal	90	0.49
23/43	1	Radiac Calibrator, AN/UDM 2	87MCI, Sr-Y90, normal	2.6	0.16
24/43	2	Radiac Calibrator, AN/UDM 6	1 UCI ea, Pu239, normal	0.05	0.05
25/43	2	Radiac Calibrator, AN/UDM 6	1 UCI ea, Pu239, normal	0.05	0.05
26/43	2	Radiac Calibrator, AN/UDM 6	1 UCI ea, Pu239, normal	0.05	0.05
27/43	2	Radiac Calibrator, AN/UDM 6	1 UCI ea, Pu239, normal	0.05	0.05
28/43	3	Radiac Calibrator, AN/UDM 6	1 UCI ea, Pu239, normal	0.05	0.05
29/43	3	Radiac Calibrator, AN/UDM 6	1 UCI ea, Pu239, normal	0.05	0.05
30/43	3	Radiac Calibrator, AN/UDM 6	1 UCI ea, Pu239, normal	0.05	0.05
31/43	50	Alpha Plates	26.5UCI, U233, normal	0.05	0.05
32/43	50	Alpha Plates	26.5UCI, U233, normal	0.05	0.05
33/43	50	Alpha Plates	26.5UCI, U233, normal	0.05	0.05
34/43	50	Alpha Plates	26.5UCI, U233, normal	0.05	0.05
35/43	50	Alpha Plates	26.5UCI, U233, normal	0.05	0.05
36/43	50	Alpha Plates	26.5UCI, U233, normal	0.05	0.05

DA Form 2791-R, Item 6 (cont)

Containers	# of Items	Nomenclature	Qty, Isotope & Form	Level at Surface	Level at 1 Meter
37/43	50	Alpha Plates	26.5UCI, U233, normal	0.05	0.05
38/43	50	Alpha Plates	26.5UCI, U233, normal	0.05	0.05
39/43	50	Alpha Plates	26.5UCI, U233, normal	0.05	0.05
40/43	23	Contaminated equip/ copper buttons sealed in plastic bags	1 UCI ea, 9-Ca45, 14 Ag110m, normal	1.2	0.30
41/43	1	M3A1 Source Set (D-39)	100MCI, Co60, normal	100	3.5
42/43	1	M3A1 Source Set (748)	123MCI, Co60, normal	140	4.3
43/43	6	Cs137 Stainless Steel Capsules	2-100MCI, 2-200MCI, 2-500MCI, Cs137, special	11	0.15

AMXLX-ME-1-CH (11 May 73) 1st Ind
SUBJECT: Film Badge Service

DA, HQ, Lexington-Blue Grass Army Depot, Lexington, Kentucky 40507 16 May 73

TO: Commander, USA Chemical Center & School, Attn: C, Health Physics Office, Fort McClellan, Alabama 36201

1. Beta gamma film badge service furnished under address code "CH" is being decreased to 51 films (one is a control film) and neutron film badge service is being cancelled effective with wearing period "V", 3 June 1973 to 1 July 1973. Beta gamma film badge service will be cancelled effective 1 July 1973.

2. Film badge service of 501 beta gamma films (one is a control film) will be initiated to USAOCS, Aberdeen Proving Ground, Maryland effective with monthly wearing period "Z", 1 July 1973 to 5 August 1973. The film badge address code for this service will be "JAR". No holders will be provided since it is assumed the holders used at Fort McClellan will be transferred to Aberdeen.

FOR THE COMMANDER:

Philip Jackson

W. E. WHELAN
LTC, QMC
Director for Maintenance

Copy furnished:
Commander
US Army Ordnance Center & School
Attn: ATSOR-SO (SSG Truffa)
Aberdeen Proving Ground
Maryland 21005

DEPARTMENT OF THE ARMY
U S ARMY CHEMICAL CENTER AND SCHOOL
FORT MC CLELLAN, ALABAMA 36201

ATSCM-HP

11 MAY 1973

SUBJECT: Change to Film Badge Service

Commander
Lexington Blue Grass Army Depot
ATTN: AMXLX-ME-I
Lexington, Kentucky 40507

1. Due to disestablishment of the US Army Chemical Center and School, request you make the following changes to film badge service:

a. For period letter V, from 3 June 1973 through 30 June 1973, reduce beta, gamma film packets from the present 300 to 50 and cancel neutron film badge service.

b. Cancel present film badge service effective 24 June 1973.

2. Request establishment of a film badge account consisting of 500 beta, gamma film packets starting period letter Z from 1 July 1973 through 4 August 1973. Primary exposure will be to Cs137 sources.' Send the packets to the following address:

Commander
US Army Ordnance Center & School (USAOCS)
ATTN: ATSOR-SO (SSG Truffa)
Aberdeen Proving Ground, MD 21005

FOR THE COMMANDANT:

DAVID H. DODD
CPT, CmlC
Assistant Secretary

CF:
Cdr, USAOC&S

5-17

#777

ROUTINE ********** * U N C L A S S I F I E D * **********

PT 00198 138 201933

RTTUZYUW RUEADWD1834 1381920-UUUU--RUCLBWA.

ZNR UUUUU

R 181920Z MAY 73

FM DA WASH DC //DALO-MAS-I//

TO RUCLSWA/CDRUSASTC FT MCCLELLAN AL //ATSCM-HP//

INFO RUEOPOA/CDRCONARC FT MONROE VA //ATLOG-MAT-EQ//

RUEOGDA/CDRAPG ABERDEEN PG MD //AMXBR-XM-HP//

RUCLHTA/CDRUSA THREE FT MCPHERSON GA //AJAGL-M-M//

BT

UNCLAS

SUBJ: DISPOSITION OF RADIOACTIVE MATERIAL

A. MSG ATSCM-HP 101312Z MAY 73, SUBJ AS ABOVE.

1. RE PAR 1.A. OF REF NEGATIVE.

2. RE PAR 1.B. THIS HQ DOES NOT HAVE COPIES OF AGREEMENTS MENTIONED

SUGGEST CONTACT LOCAL AEC OFFICE.

3. RE PAR 1.C. AEC-741 REPORT NOT NEEDED FOR UNDER 1 GRAM.

4. RE PAR 1.D. APPLICATION NOT RECEIVED; HOWEVER, WE WILL HOLD AS

APPROPRIATE.

5. RE PAR 1.E. THIS IS OK.

BT

#1834

L H P

/- Filed

ROUTINE ********** * U N C L A S S I F I E D * **********

DEPARTMENT OF THE ARMY
US ARMY CHEMICAL CENTER AND SCHOOL
Fort McClellan, Alabama 36201

ATSCM-HP 18 May 1973

MINUTES OF RADIATION SAFETY COMMITTEE MEETING

1. GENERAL.

a. Date: 17 May 73

b. Time: 1300 hours

c. Place: Main Conference Room, USACMLCS

d. Members Present: COL Simonson, Asst Comdt, Chairman
LTC Roark, DOI & Res Instr Dept
LTC Hodges, Dir, Ofc of Log
LTC Foster, Tech Gp
MAJ Wickstrom, C, HPD, Secretary
MAJ Hall, Rad Com
LTJG Adler, NAVTRAU
Mr. Daniel, Center Safety Manager

e. Members Absent: MAJ Wagner, Radiologist, NAH

f. Visitors: None

g. Purpose: Regular Quarterly Meeting

h. Authority: USACMLCS Memo 385-2

2. OLD BUSINESS.

a. Minutes of the Radiation Safety Committee Meeting of 20 March 1973 were approved as written.

b. Secretary's Report:

(1) Work on decontamination is now 99% complete. There are a few spots that still need cleaning up. The Hot Cell is complete. There is still some documentation to be done, which will be passed on to Mr. Daniel. The Engineers are working on the remaining 1%. This is waste that is being placed in the last of the 75 waste drums. They will be sealed tomorrow, with possibly one or two left open for any last-minute decontamination waste.

(2) After the inspectors were here and the inspection report was disseminated to DA level, Mr. Fagan of DALO-MAS-I stated that we should submit a license to cover the residual contamination. This was about

10 millicuries. The residual waste is located in the Hot Cell, the waste disposal tanks, and in the storage well that is filled with concrete. The request was submitted on 4 May 1973, with Mr. Daniel as project officer in the name of the Post Commander.

(3) We have requested that our three existing licenses be cancelled 24 June 1973. However, a TWX from DA indicates that they will not consider cancelling them until we tell them that no radioactive material remains, which will be approximately 25 May 73, after all radioactive items are shipped. We will TWX DA at that time and ask them to reconsider our termination of licenses.

3. NEW BUSINESS.

a. ENS William Wright was unanimously approved as a CAT II RSP.

b. The Naval Training Unit, Center Safety Manager, and Technical Group, members of the Committee, stated they felt that the Secretary of the Committee and SSG Truffa have done an outstanding job in the radiological decontamination and other Health Physics actions in preparation for the disestablishment of the USACMLCS.

c. The Committee voted to disestablish itself as presently constituted effective with the closing of the USACMLCS, 24 June 1973.

4. Meeting was adjourned at 1315 hours, 17 May 1973.

KATHY J. HEATH
Recorder

CHARLES J. WICKSTROM
MAJ, CmlC
Secretary

RECOMMEND APPROVAL:

EUGENE M. SIMONSON
COL, CmlC
Chairman

APPROVED:

JACK VANDERBLEEK
COL, CmlC
Commandant

DISTRIBUTION:
Asst Comdt; DOI; DRI; C, HPD (3); C, Tech Gp; C, Rad Com; Dir, Ofc of Log; Radiologist, NAH; Cdr, Nav Tng U; Cen Saf Mgr.

TENDERED TO → BOWMAN TRANSPORTATION COMPANY B508 | 1NXX15125N

STOP THIS CAR OR TRUCK AT

FOR

CAR INITIALS AND NO. | KIND

TRUCK NO.

IMPORTANT

Regulations permit this original bill of lading to be surrendered to the initial carrier or sent immediately to the consignee. The shipping agency will furnish specific instructions with respect thereto.

CAR-TRUCK LGTH., FT., INS. ORDERED	CAR-TRUCK LGTH., FT., INS. FURNISHED	MARKED CAPACITY† ORDERED	MARKED CAPACITY† FURNISHED	DATE FURNISHED†	DATE B/L ISSUED
					18May73f

†FURNISH THIS INFORMATION IN CASE OF CARLOAD OR TRUCKLOAD SHIPMENTS ONLY.

IF EXTRA SERVICES ARE ORDERED SEE ADMINISTRATIVE DIRECTIONS NO.2 ON REVERSE

RECEIVED BY THE TRANSPORTATION COMPANY NAMED ABOVE, SUBJECT TO CONDITIONS NAMED ON THE REVERSE HEREOF, THE PROPERTY HEREINAFTER DESCRIBED, IN APPARENT GOOD ORDER AND CONDITION (CONTENTS AND VALUE UNKNOWN), TO BE FORWARDED TO DESTINATION BY THE SAID COMPANY AND CONNECTING LINES, THERE TO BE DELIVERED IN LIKE GOOD ORDER AND CONDITION TO SAID CONSIGNEE.

FROM Ft McClellan,Al

(SHIPPING POINT) →

FULL NAME OF SHIPPER A31QIU — Transportation Officer, Fort McClellan,Al 36201

CONSIGNEE (NAME AND MAILING ADDRESS)
Radiological Safety Officer
National Bureau of Standards
Gaithersburg, Md 20760

MARKS
MF: Dr Abraham Schwebel, Bldg 245
Room C125,

DESTINATION
Gaithersburg, Md. 20760 — DDD: 31 May 73

VIA (ROUTE SHIPMENT ONLY WHEN SOME SUBSTANTIAL INTEREST OF THE GOVERNMENT IS SERVED THEREBY)
c/o B & P Motor Express B029

CHARGES TO BE BILLED TO (DEPARTMENT OR ESTABLISHMENT, BUREAU OR SERVICE AND LOCATIO
FINANCE CENTER, TDTY Navy Regional Finance Ctr
M.S. AXXXY Washington DC 20390
17:DIAYAPOLIS/INDIANA/A6249

SEAL NOS.

APPLIED BY:

FOR CARRIER'S USE ONLY
WAYBILL NO. | FREIGHT BILL NO.

APPROPRIATION CHARGEABLE 17X3980.2339 022 73001 0 000023
2D 000000 000N36598003

CONTRACTORS WILL RETURN UNUSED OR CANCELED BILLS OF LADING TO GOVERNMENT OFFICE FROM WHICH RECEIVED.

PACKAGES NO.	PACKAGES KIND	DESCRIPTION OF ARTICLES (USE CARRIERS' CLASSIFICATION OR TARIFF DESCRIPTION IF POSSIBLE. OTHERWISE A CLEAR NONTECHNICAL DESCRIPTION)	NUMBERS ON PACKAGES	WEIGHTS*	FOR USE OF DESTINATION CARRIER ONLY CLASS	RATE	CHARGES DOLLARS	CHARGES CENTS
1	BX	TCN: N6259131358000 VOU No. 3135 1005						
		NMFC 164900, RADIOACTIVE NATERIAL						
1	CN	& (Contains Neutron Beam Irradiation Facility	27.8	570				
		(& Neutron Source(MRC-Am-BE-1279)						
2	PC	TOTALS - RADIOACTIVE LABELS						
		"THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED,DESCRIBED,PACKAGED,MARKED AND LABELED,AND ARE IN PROPER CONDITION FOR TRANS. ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION." for TC						
		MOVING LESS TRUCK LOAD Jannie J. Cochran						

IF THIS SHIPMENT FULLY LOADS THE CAR OR TRUCK USED, CHECK ☐ YES

TARIFF OR SPECIAL RATE AUTHORITIES (C/L-T/L OR VOL ONLY)
SM504D Class Rate LTL

CARRIER FURNISHED ☒ PICK UP— ☐ TRAP CAR— SERVICE AT ORIGIN. INITIALS OF SHIPPER'S AGENT WS

NAME OF TRANSPORTATION COMPANY → BOWMAN TRANSPORTATION COMPANY B508

DATE OF RECEIPT OF SHIPMENT 5/21/73

INITIAL CARRIER'S AGENT, BY SIGNATURE BELOW, CERTIFIES HE RECEIVED THE ORIGINAL BILL OF LADING. ☐ YES (INDICATE BY CHECK)

SIGNATURE OF AGENT William Cathey PER 5/21/73

CERTIFICATE OF ISSUING OFFICER

I CERTIFY THAT THIS SHIPMENT IS MADE PURSUANT TO THE TERMS OF CONTR OR PURCHASE ORDER NO. Ltr dtd 24Apr73fmComNaval Facltg Alexandria,Va Sub Shpmt of Neutron Source & Fr DTED 23May73,Sub Delivered to MAC Contract

Ft McClellan,Al

ISSUING OFFICE Trans. O. Ft McClellan,Al.

SIGNATURE OF ISSUING OFFICER Jannie D. Cochran TA FOR

DATE 18May73 TITLE WARDELL SMITH,CPT,TC,TO.

CONSIGNEE'S CERTIFICATE OF DELIVERY — CONSIGNEE MUST NOT PAY ANY CHARGES ON THIS SHIPMENT

I CERTIFY THAT I HAVE THIS DAY_____ (DATE OF DELIVERY) RECEIVED FROM _____ (NAME OF TRANSPORTATION COMPANY) AT_____ (ACTUAL POINT OF DELIVERY)

THE PROPERTY DESCRIBED IN THIS BILL OF LADING IN APPARENT GOOD ORDER AND CONDITION, EXCEPT AS NOTED ON REVERSE HEREOF. CARRIER FURNISHED ☐ DELIVERY— ☐ TRAP SERVICE AT DESTINATION.

_____ POUNDS * (GROSS WEIGHT IN BOTH WORDS AND FIGURES)

_____ (SIGNATURE OF CONSIGNEE OR AUTHORIZED AGENT)

*SHOW ALSO CUBIC MEASUREMENTS FOR SHIPMENTS VIA AIR, TRUCK OR WATER CARRIER, IN CASES WHERE REQUIRED.

MAIL CY DOC,GBL TO SK2 Covington,Naval Unit,Chem Sci(for fa)

SHIPPING CONTAINER TALLY → 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

REQUISITION AND INVOICE/SHIPPING DOCUMENT

SHEET NO.	NO. OF SHEETS	5. REQUISITION DATE	6. REQUISITION NUMBER
			N6259131358000

1. FROM:
Property Officer, USACMLCS, Fort McClellan, Alabama 36201

2. TO:
Dr. Abraham Schwebel, Radiological Safety Officer
National Bureau of Standards
Building 245, Room C-125
Gaithersburg, MD 20760

3. SHIP TO/MARK FOR

7. DATE MATERIEL REQUIRED

8. PRIORITY

9. AUTHORITY OR PURPOSE: Auth:Ltr dt 24Apr73,FmCom,Naval Facilities Eng Cmd, Alexandria,Va,Subj Shpmt of Neutron Sourc Message P152254Z Feb 73, subj: Disestablishment of the USACMLCS.

10. SIGNATURE: Ralph C. Smith

11a. VOUCHER NUMBER AND DATE: 3135-1005

12. DATE SHIPPED: 21 May 73

13. MODE OF SHIPMENT: Bozoman (LTL)

14. BILL OF LADING NUMBER: H-0,865,540

15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO.

4. APPROPRIATION SYMBOL AND SUBHEAD	OBJECT CLASS	EXPENDITURE ACCOUNT (From)	EXPENDITURE ACCOUNT (To)	CHARGEABLE ACTIVITY	BUREAU CONTROL ACTIVITY NO.	BUREAU CONTROL NO.	AMOUNT
17X3980.2339	022			73001 0	000023 2D	000000	000N36598003

ITEM NO (a)	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIEL AND/OR SERVICES (b)	UNIT OF ISSUE (c)	QUANTITY REQUESTED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NOS. (g)	UNIT PRICE (h)	TOTAL COST (i)
1.	Neutron Beam Irradiation Facility	ea	1	1	Box	1/2		
2.	Neutron Source (MRC-Am-Be-1279) (Radioactive)	ea	1	1	Can	2/2		

See attached inclosure.

"This is to certify that the above named articles are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

CHARLES J. WICKSTROM
MAJ, CmlC
C, Health Physics Division

PRIORITY SHIPMENT REQUESTED.
Ship not later than 25 May 73.

JACK VANDERBLEEK
COL, CmlC
Commandant

16. TRANSPORTATION VIA MATS OR MSTS CHARGEABLE TO

17. SPECIAL HANDLING

RECAPITULATION OF SHIPMENT

18. ISSUED BY	TOTAL CONTAINERS	TYPE CONTAINER	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE
CHECKED BY	2		Neutron Beam & Source	570	27.8
PACKED BY					
	2		← TOTAL →	570	27.8

RECEIPT

19. CONTAINERS RECEIVED EXCEPT AS NOTED	DATE	BY	SHEET TOTAL
QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	BY	GRAND TOTAL
POSTED	DATE	BY	20. RECEIVER'S VOUCHER NO

DD FORM 1 MAR 59 1149

51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

RADIOACTIVE MATERIALS MOVEMENT

[XX] SHIPMENT [ ] RECEIPT

For use of this form, see AR 55-55; the proponent agency is Office of the Deputy Chief of Staff for Logistics.

(See instructions on reverse)

DETAILS OF SHIPMENT

1. TO: (Include ZIP Code)	2. FROM: (Include ZIP Code)
Dr. Abraham Schwebel, Rad Saf Off National Bureau of Standards Building 245, Rm C-125 Gaithersburg, MD 20760	Health Physics Division USACMLCS Fort McClellan, AL 36201

3. SHIPMENT NUMBER	4. SECURITY CLASSIFICATION	5. MODE OF SHIPMENT (i.e., Railway Express)
		Ground

6. COMMODITY DESCRIPTION			7. RADIOACTIVITY		
CONTAINERS a	NUMBER OF ITEMS b	NOMENCLATURE c	QUANTITY, ISOTOPE AND FORM d	LEVEL AT SURFACE	LEVEL AT ONE METER
1	1	Neutron Source Am-Br SN MRC AM-Be-1279	2.5 mCi, Am241, special (6.50×10^6 m/sec)	117.0 mrad/hr	5.4 mrad/hr

SHIPMENT

THE ABOVE DESCRIBED ARTICLES ARE PROPERLY CLASSIFIED, PACKAGED, MARKED, AND LABELED. THE ARTICLES ARE IN PROPER CONDITION FOR TRANSPORTATION AND THE SPREADABLE ACTIVITY AND DOSE RATES ARE WITHIN THE SPECIFIED LIMITS, AS PRESCRIBED BY APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION AND DEPARTMENT OF THE ARMY.

8. REMARKS

DOT 7A container weight 20 lbs cube 0.8 cu ft

9. SPECIAL PRECAUTIONS

None

10. SIGNATURE OF PERSON RELEASING SHIPMENT (Shipping Organization)		DATE
CHARLES J. WICKSTROM, MAJ, CmlC, C; HEalth Phy Div		15 May 73
11. SIGNATURE OF TRANSPORTATION CARRIER (Shipping Organization)	GRADE AND TITLE	DATE
12. ORGANIZATION		15 May 73

DA FORM 2791-R, 1 Oct 70 REPLACES DA FORM 2791, 1 JUN 55, WHICH IS OBSOLETE.

(Paper size, 8" x 10½"; image size, 7-4/10" x 10")

Front

Figure 3-7. DA Form 2791-R.

RECEIPT

THE ARTICLES DESCRIBED ON REVERSE WERE RECEIVED IN PROPER TRANSPORTATION CONDITION. THE SPREADABLE ACTIVITY AND DOSE RATES ARE WITHIN THE SPECIFIED LIMITS AS PRESCRIBED BY APPLICABLE REGULATION OF THE DEPARTMENT OF TRANSPORTATION AND THE DEPARTMENT OF THE ARMY EXCEPT AS NOTED BELOW.

13. REMARKS

14. SIGNATURE OF RADIATION PROTECTION OFFICER *(Receiving Organization)*		DATE
15. SIGNATURE OF CONSIGNEE	GRADE AND TITLE	DATE
16. ORGANIZATION		

INSTRUCTIONS

GENERAL

Forms will be used to identify radioactive shipments originated by Army elements for protection of shipping, transporting, and receiving personnel and to assure compliance with DA and other regulations. Receiving organizations will use the form to record receipt of radioactive shipments from Army and non-Army elements and to indicate any necessary radiation protection action. Certification by the radiation protection officer indicates that all necessary radiation surveys and smear tests were made with appropriate radiation/contamination measuring devices. See also paragraph 3-5, AR 55-55. Shipping organizations will complete three copies; retain one for record purposes, and deliver one to the carrier who will deliver one copy to the receiving organization. When forms are originated by receiving organizations, sufficient copies will be prepared for record purposes and use in follow-up action as necessary.

EXPLANATION OF FORM

1. Items 1, 2, 3, 4, 5. Self-explanatory.

2. Item 6a. Indicate number and kind of packages and package markings, if marked.

3. Item 6b. Indicate number of items contained in package(s) shown in column 6a. Each type of item should be listed separately.

4. Item 6c. Enter sufficient information to identify the item(s). Include Federal Stock Number, if any.

5. Item 7a. Show total number of curies, millicuries, or microcuries contained in package(s) in Column 6a. and, if available, the number of curies, millicuries or microcuries contained in each item. Indicate chemical element and mass number of radioisotopes and whether liquid, solid, or gaseous, and sealed or unsealed.

6. Item 7b. Indicate radiation levels in mR/hr.

7. Item 8. Self-explanatory.

8. Item 9. List special precaution necessary in handling, transporting and storing. Where shipments are at variance with or are exempted from portions of the regulations (i.e., labeling, packaging, container specification), include a statement to so indicate and list specific authority for the variance or exemption.

9. Items 10, 11, 12. Self-explanatory.

10. Item 13. Record exceptions to receipt statement and follow-up actions taken. If none, so indicate.

11. Items 14, 15, 16. Self-explanatory.

Back

Figure 3-7—Continued.

SPECIAL INSTRUCTIONS FOR MOTOR VEHICLE DRIVERS

DATE

TO: *(Carrier's Name and Trailer Number)*

FROM: *(Station Issuing Instructions)*
Fort McClellan, AL 36201

BILL OF LADING NUMBER
H-O-865540

PLACARDS *(Specified by ICC Reg.)*
Radioactive

THIS TRUCK IS LOADED WITH *(Commodity Description)*
Radioactive Materials, N. O. S.

IN CASE OF FIRE

1. If any part of the truck outside of actual contents catches fire, take truck to a clear or uninhabited area, if practicable, and/or attempt to put fire out immediately with hand extinguishers or other available means. If practicable, ask someone to notify the fire department. Call to the attention of fire or police personnel at the scene of the fire the information on this form.

2. Fires may be fought until the flames reach the cargo, at which time firemen and other personnel should be withdrawn to a safe distance, as noted in 5 below.

3. If in convoy, other trucks proceed to safe distance.

4. Water may be used on this cargo [XX] Yes [ ] No *(See Other Specific Precautions below)*

5. Firemen should not approach closer than 30 feet* from fire when the fire has reached the cargo, except for Group VI. *(See Other Specific Precautions below)*

6. Public should not approach closer than 300 feet* from fire.

7. As soon as practical, notify the nearest military installation.

IN CASE OF ACCIDENT

1. Set brake and block vehicle to prevent movement.

2. Post flags by day, and red electric lanterns or reflectors by night, warning traffic approaching from each direction.

3. Call for ambulance, if necessary.

4. Notify nearest police.

5. Notify nearest military installation if cargo is damaged.

NOTIFY: *(By phone or wire as soon as possible)*
MAJ Wickstrom 205-238-3937/3141

IN CASE OF BREAKDOWN

1. Do not attempt to tow loaded vehicle.

2. Post flags by day and red electric lanterns or reflectors by night, warning traffic approaching from each direction.

GENERAL PRECAUTIONS

1. While operating over public roads, keep at least 300 feet from trucks loaded with explosives or other dangerous articles; a greater minimum distance must be maintained if required by state or municipal regulations.

2. Protect the public from the hazards of the cargo.

3. Do not allow smoking or use of matches or lighters in or near the vehicle.

4. Obey all state and local traffic regulations.

5. Do not exceed posted speed limits.

6. Stop at all railroad crossings

7. Use designated routes. Wherever possible, avoid congested residential or business areas.

8. Do not permit unauthorized persons to ride on vehicles.

9. At other than carrier rest stops or interchange points, select safe parking space at stopping locations designated by the carrier. Vehicles carrying explosives should not group together at these stopping locations.

10. Deliver shipment to receiving installation during normal working hours and only to persons authorized to accept it.

OTHER SPECIFIC PRECAUTIONS

Water may be used on a cargo fire, avoid high pressure water; if possible, use a "fog. If available in quantity, CO_2 is preferred.---Once fire reaches cargo, fire should be fought from up wind; all personnel should remain up wind and away from smoke.

These instructions must be transferred to each subsequent driver for turn-in at final destination. If more than 3 drivers are involved, the additional signatures should be made on an extra sheet and attached hereto.

SIGNATURE OF SHIPPER REPRESENTATIVE	SIGNATURE OF FIRST DRIVER
SIGNATURE OF SECOND DRIVER	SIGNATURE OF THIRD DRIVER

* *The distances shown are minimum; greater distances should be used whenever possible.*

DD FORM 1 JUN 66 836 REPLACES EDITION OF 1 MAR 64 WHICH WILL BE USED.

Standard Form 1103
5 GAO 3000
1103-114-08

U.S. GOVERNMENT BILL OF LADING

ORIGINAL

B/L NO. H-0,865,541

TRANSPORTATION COMPANY

TENDERED TO ——→ BOWMAN TRANSPORTATION COMPANY B508

TRAFFIC CONTROL NO. INXX1526A

STOP THIS CAR OR TRUCK AT

FOR

IMPORTANT
Regulations permit this original bill of lading to be surrendered to the initial carrier or sent immediately to the consignee. The shipping agency will furnish specific instructions with respect thereto.

CAR-TRUCK LGTH., FT., INS.† ORDERED	CAR-TRUCK LGTH., FT., INS.† FURNISHED	MARKED CAPACITY† ORDERED	MARKED CAPACITY† FURNISHED	DATE FURNISHED†	DATE B/L ISSUE
			45	-	18May73

†FURNISH THIS INFORMATION IN CASE OF CARLOAD OR TRUCKLOAD SHIPMENTS ONLY.

CAR INITIALS AND NO. Trailer Van No. 45-480
TRUCK NO. Tractor No. 882

KIND MV

IF EXTRA SERVICES ARE ORDERED SEE ADMINISTRATIVE DIRECTIONS NO. 2 ON REVERSE

RECEIVED BY THE TRANSPORTATION COMPANY NAMED ABOVE, SUBJECT TO CONDITIONS NAMED ON THE REVERSE HEREOF, THE PROPERTY HEREINAFTER DESCRIBED, IN APPARENT GOOD ORDER AND CONDITION (CONTENTS AND VALUE UNKNOWN), TO BE FORWARDED TO DESTINATION BY THE SAID COMPANY AND CONNECTING LINES. THERE TO BE DELIVERED IN LIKE GOOD ORDER AND CONDITION TO SAID CONSIGNEE.

FROM
Ft McClellan,Al 36201
(SHIPPING POINT) ——→

FULL NAME OF SHIPPER
A31QLU

Transportation Officer
Fort McClellan,Al

CONSIGNEE (NAME AND MAILING ADDRESS)
Property Officer
Nuclear Eng Co.,Inc(Kentucky Service Ctr)
Moorehead, Ky 40351

MARKS
Note:Disposition instr h/b req IAW AR 755-1
and Edgewood Ars CONTROL No.SMUEA-TS-MC240-
"Release value not to exceed 40¢ per lb"

DESTINATION
Moorehead, Ky 40351 DDD: 25 May 73

VIA (ROUTE SHIPMENT ONLY WHEN SOME SUBSTANTIAL INTEREST OF THE GOVERNMENT IS SERVED THEREBY)
c/o POINT EXP P556

CHARGES TO BE BILLED TO (DEPARTMENT OR ESTABLISHMENT, BUREAU OR SERVICE AND LOCAT
FINANCE CENTER, TDIV
U.S. ARMY
INDIANAPOLIS, INDIANA 46249

SEAL NOS.
Sou Ry 7969151 & 7969152

FOR CARRIER'S USE ONLY
WAYBILL NO. | FREIGHT BILL NO.

APPROPRIATION CHARGEABLE 2132020 53-7230 P720000-2200 R5
S01-088 BVN - 377-73

APPLIED BY: Applied by shipper at origin

CONTRACTORS WILL RETURN UNUSED OR CANCELED BILLS OF LADING TO GOVE MENT OFFICE FROM WHICH RECEIVED.

PACKAGES NO.	PACKAGES KIND	DESCRIPTION OF ARTICLES (USE CARRIERS' CLASSIFICATION OR TARIFF DESCRIPTION IF POSSIBLE, OTHERWISE A CLEAR NONTECHNICAL DESCRIPTION)	NUMBERS ON PACKAGES	Actual. WEIGHTS*	FOR USE OF DESTINATION CARRIER O CLASS	RATE	CHARGES DOLLARS
75	DR	Vou No. 3135 0065 NMFC 164900 RADIOACTIVE WASTE(55 Gal Drums are DOT 17H.YELLOW LABEL II & III & I RADIOACTIVE LABELS & YELLOW LABELS APPLIED "TENDERED AS ONE TRUCK LOAD" "CARRIER WAS NOTIFIED IN ADV FOR SERVICES NEEDED" "SUBJ TO CAP LOAD RULE" "LOADING PERFORMED BY Ft McClellan,Al,UNLOADING PERFORMED BY_____." "This is to certify that the above named articles are classified,desxribed,packaged,marked,labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation." Jannie A. Gardner	690	37,500			

IF THIS SHIPMENT FULLY LOADS THE CAR OR TRUCK USED, CHECK ☐ YES

TARIFF OR SPECIAL RATE AUTHORITIES (C/L-T/L OR VOL. ONLY)
SM501C Class Rate

CARRIER FURNISHED ☒ PICK UP— ☐ TRAP CAR— SERVICE AT ORIGIN. INITIALS OF SHIPPER'S AGENT WS

NAME OF TRANSPORTATION COMPANY
BOWMAN TRANSPORTATION COMPANY B508

DATE OF RECEIPT OF SHIPMENT
21 May 73

INITIAL CARRIER'S AGENT, BY SIGNATURE BELOW, CERTIFIES HE RECEIVED THE ORIGINAL BILL OF LADING.
☐ YES (INDICATE BY CHECK)

SIGNATURE OF AGENT
W L Maddy

PER

CERTIFICATE OF ISSUING OFFICER

I CERTIFY THAT THIS SHIPMENT IS MADE PURSUANT TO THE TERMS OF CONT
OR PURCHASE ORDER NO. Msg, Pl522544Feb73, Subj:Disestal of USAG,DCS,&DDIM,Ft McC 3135 0065, OR OTHER AUTHORITY FOR SHIPMENT. F.O.B. POINT NAMED IN CONTRACT Ft McClellan,Al

ISSUING OFFICE Trans. O, Ft McClellan,Al

SIGNATURE OF ISSUING OFFICER Jannie A. Gardner TA FOR

DATE 18May73 TITLE WARDELL SMITH,CPT,TC,TO.

CONSIGNEE'S CERTIFICATE OF DELIVERY — CONSIGNEE MUST NOT PAY ANY CHARGES ON THIS SHIPMENT

I CERTIFY THAT I HAVE THIS DAY_____ (DATE OF DELIVERY) RECEIVED FROM _____ (NAME OF TRANSPORTATION COMPANY) AT_____ (ACTUAL POINT OF DELIVERY)

THE PROPERTY DESCRIBED IN THIS BILL OF LADING IN APPARENT GOOD ORDER AND CONDITION, EXCEPT AS NOTED ON REVERSE HEREOF. CARRIER FURNISHED ☐ DELIVERY— ☐ TRAF SERVICE AT DESTINATION.

_____ POUNDS*

SHIPPING CONTAINER TALLY → 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

REQUISITION AND INVOICE/SHIPPING DOCUMENT

SHEET NO.	NO. OF SHEETS	5. REQUISITION DATE	6. REQUISITION NUMBER
1	1		

1. FROM: Property Officer, USACMLCS, Fort McClellan, Alabama 36201

2. TO: Nuclear Eng Co., Inc.
Kentucky Svc Cen
Moorehead, KY 40351

3. SHIP TO - MARK FOR

7. DATE MATERIEL REQUIRED:

8. PRIORITY:

9. AUTHORITY OR PURPOSE: Message P152254Z Feb 73, subj: Disestablishment of the USACMLCS

10. SIGNATURE: Ralph C. Smith
Ralph C. Smith

11a. VOUCHER NUMBER AND DATE: 3135-0065

11b.:

12. DATE SHIPPED: 21 May 73

13. MODE OF SHIPMENT: TL:Bowman c/o Point Exp

14. BILL OF LADING NUMBER: H 0,865,541

15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO.:

4. APPROPRIATION SYMBOL AND SUBHEAD	OBJECT CLASS	EXPENDITURE ACCOUNT (From)	EXPENDITURE ACCOUNT (To)	CHARGEABLE ACTIVITY	BUREAU CONTROL ACTIVITY NO.	BUREAU CONTROL NO.	AMOUNT
*Second Destination							

Ref DF, 23 Feb 1973, subject: Disestablishment of the USACMLCS, cost of movement of equipment by commercial carrier or contract, will be charged to Program 7.

ITEM NO. (a)	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIEL AND/OR SERVICES (b)	UNIT OF ISSUE (c)	QUANTITY REQUESTED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NOS. (g)	UNIT PRICE (h)	TOTAL COST (i)
1.	Drums, 55-gallon containing radioactive waste. See attached inclosure. (9.2 cu ft each) (est wt 500 lbs each)	ea	75	75	Drum			

Disposition instructions have been requested IAW AR 755-15 and Edgewood Arsenal has telephonically assigned control number SMUEA-TS-MC240-73. PRIORITY SHIPMENT REQUESTED. Ship not later than 25 May 73.

"This is to certify that the above named articles are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

Charles J Wickstrom
CHARLES J WICKSTROM
MAJ, CmlC
C, Health Physics Division

Jack Vanderbleek
JACK VANDERBLEEK
COL, CMLC
Commandant

16. TRANSPORTATION VIA MATS OR MSTS CHARGEABLE TO:

17. SPECIAL HANDLING:

18. RECAPITULATION OF SHIPMENT	TOTAL CONTAINERS	TYPE CONTAINER	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE
ISSUED BY	75	Drum	Radioactive waste		690.0
CHECKED BY					
PACKED BY					
	75		← TOTAL →		690.0

19. RECEIPT

	DATE	BY	
CONTAINERS RECEIVED EXCEPT AS NOTED			SHEET TOTAL
QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	BY	GRAND TOTAL
POSTED	DATE	BY	20. RECEIVER'S VOUCHER NO

DD FORM 1 MAR 59 1149

51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Achive

RADIOACTIVE MATERIALS MOVEMENT

[XX] SHIPMENT [ ] RECEIPT

For use of this form, see AR 55-55; the proponent agency is Office of the Deputy Chief of Staff for Logistics.

(See instructions on reverse)

DETAILS OF SHIPMENT

1. TO: (Include ZIP Code)	2. FROM: (Include ZIP Code)
NUCLEAR ENG CO. INC. KENTUCKY SVC CEN MOOREHEAD, KY 40351	HEALTH PHYSICS DIVISION USACMLCS FORT MCCLELLAN, AL 36201

3. SHIPMENT NUMBER	4. SECURITY CLASSIFICATION	5. MODE OF SHIPMENT (i.e., Railway Express)
	UNCLASSIFIED	

6. COMMODITY DESCRIPTION.			7. RADIOACTIVITY		
CONTAINERS a	NUMBER OF ITEMS b	NOMENCLATURE c	QUANTITY, ISOTOPE AND FORM d	LEVEL AT SURFACE	LEVEL AT ONE METER
SEE		ATTACHED	SHEETS		

SHIPMENT

THE ABOVE DESCRIBED ARTICLES ARE PROPERLY CLASSIFIED, PACKAGED, MARKED, AND LABELED. THE ARTICLES ARE IN PROPER CONDITION FOR TRANSPORTATION AND THE SPREADABLE ACTIVITY AND DOSE RATES ARE WITHIN THE SPECIFIED LIMITS, AS PRESCRIBED BY APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION AND DEPARTMENT OF THE ARMY.

8. REMARKS 55 Gal drums are DOT 17H. The drums are marked as follows:
YELLOW LABEL III; numbers 1, 16, 17, 32, 41, 42, 63.
YELLOW LABEL II; numbers 2-5, 7, 8, 11-13, 15, 18, 21, 23, 26, 27, 29, 30, 33, 35-37, 39, 40, 43, 45, 49, 50, 53, 54, 57, 58, 60, 62, 65, 69-75. WHITE LABEL I; numbers 6, 9, 10, 14, 19, 20, 22, 24, 25, 28, 31, 34, 38, 44, 46-48, 51, 55, 56, 59, 61, 64, 66-68; 52.

9. SPECIAL PRECAUTIONS
None.

10. SIGNATURE OF RADIATION PROTECTION OFFICER (Shipping Organization)		DATE
CHARLES J. WICKSTROM, MAJ, CmlC, Chief, Health Physics Div		15 May 73
11. SIGNATURE OF TRANSPORTATION OFFICER (Shipping Organization)	NAME AND TITLE	DATE
12. ORGANIZATION		15 May 73

DA FORM 2791-R, 1 Oct 70 REPLACES DA FORM 2791, 1 JUN 66, WHICH IS OBSOLETE. (Paper size, 8" x 10½", image area, 7-4/10" x 10")

Front

Figure 3-7. DA Form 2791-R.

DA Form 2791-R, Item 6 (cont)

CONTAINER	# OF ITEMS	NOMENCLATURE	QTY, ISOTOPE & FORM	LEVEL IN MRAD/HR AT SURFACE	AT 1 METE
1/75	one	Radioactive waste	13mCi, Cs137, normal	160	3.3
2/75	one	Radioactive waste	40uCi, Ra226, normal	1.3	0.10
3/75	one	Radioactive waste	6.25uCi, Co60, normal	2.0	0.08
4/75	one	Radioactive waste	6.25uCi, Co60, normal	0.90	0.07
5/75	one	Radioactive waste	6.25uCi, Co60, normal	1.0	0.07
6/75	one	Radioactive waste	2uCi, Ag110m, normal	0.46	0.06
7/75	one	Radioactive waste	6uCi, Ag110m, normal	1.4	0.11
8/75	one	Radioactive waste	6.25uCi, Co60, normal	1.6	0.08
9/75	one	Radioactive waste	6.25uCi, Co60, normal	0.20	0.05
10/75	one	Radioactive waste	9.5uCi, SrY90, normal	0.22	0.04
11/75	one	Radioactive waste	9.5uCi, SrY90, normal	1.0	0.05
12/75	one	Radioactive waste	9.5uCi, SrY90, normal	1.2	0.07
13/75	one	Radioactive waste	9.5uCi, SrY90, normal	1.1	0.06
14/75	one	Radioactive waste	6.25uCi, Co60, normal	0.41	0.05
15/75	one	Radioactive waste	9.5uCi Sr-Y90, normal	1.4	0.07
16/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	12	0.14
17/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	11	0.12
18/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.8	0.05
19/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.28	0.05
20/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.48	0.06
21/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	1.4	0.05
22/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.47	0.04
23/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	1.4	0.06

DA Form 2791-R, Item 6 (cont)

CONTAINER	# OF ITEMS	NOMENCLATURE	QTY, ISOTOPE & FORM	LEVEL IN MRAD/HR AT SURFACE	AT 1 METE
24/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.30	0.04
25/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.27	0.05
26/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	1.5	0.07
27/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	1.1	0.06
28/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.22	0.04
29/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.9	0.05
30/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	3.8	0.07
31/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.48	0.05
32/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	20	0.19
33/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	1.7	0.06
34/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.19	0.04
35/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	2.5	0.06
36/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	1.8	0.05
37/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	2.2	0.06
38/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.23	0.05
39/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	4.7	0.07
40/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	1.0	0.06
41/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	30.0	0.15
42/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	40.0	0.08
43/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	1.3	0.07
44/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.30	0.05
45/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.80	0.06
46/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.22	0.04

DA Form 2791-R, Item 6 (cont)

CONTAINER	# OF ITEMS	NOMENCLATURE	QTY, ISOTOPE & FORM	LEVEL IN MRAD/HR AT SURFACE	AT L MET
47/75	one	Radioactive waste	6.25uCi, Co60, normal	0.30	0.06
48/75	one	Radioactive waste	6.25uCi, Co60, normal	0.45	0.05
49/75	one	Radioactive waste	6.25uCi, Co60, normal	1.7	0.07
50/75	one	Radioactive waste	6.25uCi, Co60, normal	2.0	0.07
51/75	one	Radioactive waste	6.25uCi, Co60, normal	0.20	0.05
52/75	one	Radioactive waste	6.25uCi, Co60, normal	0.30	0.05
53/75	one	Radioactive waste	6.25uCi, Co60, normal	0.90	0.07
54/75	one	Radioactive waste	6.25uCi, Co60, normal	1.0	0.07
55/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.4	0.06
56/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.24	0.04
57/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.9	0.07
58/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	2.7	0.07
59/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.26	0.04
60/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	1.6	0.06
61/75	one	Radioactive waste	9.5uCi, Sr-Y90, normal	0.32	0.05
62/75	one	Radioactive waste	10uCi, Cs137, normal	2.1	0.16
63/75	one	Radioactive waste	10uCi, Cs137, normal	13	0.27
64/75	one	Radioactive waste	1uCi, Ag110m, normal	0.15	0.05
65/75	one	Radioactive waste	5uCi, Ag110m, normal	3.2	0.08
66/75	one	Radioactive waste	6.25uCi, Co60, normal	0.30	0.06
67/75	one	Radioactive waste	6.25uCi, Co60, normal	0.28	0.05
68/75	one	Radioactive waste	6.25uCi, Co60, normal	0.24	0.05
69/75	one	Radioactive waste	6.25uCi, Co60, normal	2.0	0.06

DA Form 2791-R, Item 6 (cont)

CONTAINER	# OF ITEMS	NOMENCLATURE	QTY, ISOTOPE & FORM	LEVEL IN MRAD/HR AT SURFACE	AT 1 MET
70/75	one	Radioactive waste	6.25uCi, Co60, normal	2.4	0.07
71/75	one	Radioactive waste	6.25uCi, Co60, normal	4.6	0.17
72/75	one	Radioactive waste	6.25uCi, Co60, normal	3.1	0.13
73/75	one	Radioactive waste	6.25uCi, Co60, normal	4.0	0.14
74/75	one	Radioactive waste	6.25uCi, Co60, normal	2.3	0.08
75/75	one	Radioactive waste	6.25uCi, Co60, normal	1.2	0.07

RADIOACTIVE SHIPMENT RECORD

1235

P. O. BOX 158
SHEFFIELD, ILLINOIS 61361

PAGES P. O. BOX 638
RICHLAND, WASHINGTON 993

CUSTOMER: US ARMY CHEMICAL CENTER & SCHOOL FAC DATE 21 MAY 19 7

ADDRESS: FORT MCCLELLAN, AL 36201 PAGE 1 OF 2 PAG

INSTRUCTIONS

1. Please complete this form in triplicate on each shipment of radioactive waste to Nuclear Engineering Co., Inc. Use as many pages as necessary & distribute as follows:
   A. Mail original copy to NECO Office serving you.
   B. Give yellow copy to truck driver.
   C. Retain pink copy for your files.
2. Indicate by a check mark in column 2 whether contents are solid, liquid or gaseous.
3. All shipments must meet regulations and general packaging requirements of 49 CFR parts 170-190 and 14 CFR part 103.

ITEM NO.	PHYSICAL STATE SOLID	LIQUID	GASEOUS	RADIATION, MR/HR AT SURFACE	AT 3'	PRINCIPAL ISOTOPE(S)	BY-PRODUCT CURIES	SNM GRAMS	SOURCE LBS.	CUBIC FEET	TRANSPORT GROUP(S)	FISSILE CLASS	LABEL USED
55	X			0.4	0.06	Sr-490	9.5μCi	—	—	9.2	I	—	I
56	X			0.24	0.04	Sr-490	9.5μCi	—	—	9.2	I	—	I
57	X			0.9	0.07	Sr-490	9.5μCi	—	—	9.2	I	—	II
58	X			2.7	0.07	Sr-490	9.5μCi	—	—	9.2	I	—	II
59	X			0.26	0.04	Sr-490	9.5μCi	—	—	9.2	I	—	I
60	X			4.6	0.06	Sr-490	9.5μCi	—	—	9.2	I	—	II
61	X			0.32	0.05	Sr-490	9.5μCi	—	—	9.2	I	—	I
62	X			2.1		Cs-137	10μCi	—	—	9.2	III	—	II
63	X			13	0.27	Cs-137	10μCi	—	—	9.2	III	—	III
64	X			0.15	0.05	Ag110m	1μCi	—	—	9.2	III	—	I
65	X			32	0.08	Ag110m	5μCi	—	—	9.2	III	—	II
66	X			0.30	0.06	Co60	6.25μCi	—	—	9.2	III	—	I
67	X			0.28	0.05	Co60	6.25μCi	—	—	9.2	III	—	I
68	X			0.24	0.05	Co60	6.25μCi	—	—	9.2	III	—	I
69	X			2.0	0.06	Co60	6.25μCi	—	—	9.2	IV	—	II
70	X			7.4	0.07	Co60	6.25μCi	—	—	9.2	IV	—	II
71	X			4.6	0.17	Co60	6.25μCi	—	—	9.2	III	—	II
72	X			3.1	0.13	Co60	6.25μCi	—	—	9.2	IV	—	II
73	X			4.0	0.14	Co60	6.25μCi	—	—	9.2	IV	—	II
74	X			2.3	0.08	Co60	6.25μCi	—	—	9.2	III	—	II
75	X			1.2	0.07	Co60	6.25μCi	—	—	9.2	III	—	II
	See page 2 for ITEM Nos 1-54												

This is to certify that the above named articles are properly classified, described, packaged, marked and labeled; and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

TRIPLICATE RETAINED F
CUSTOMER'S FILES

RADIOACTIVE SHIPMENT RECORD

ITEM NO	PHYSICAL STATE	RADIATION, MR/HR AT SURFACE	AT 3'	PRINCIPAL ISOTOPE(S)	BYPRODUCT CURIES	TRANSPORT GROUP(S)	LABEL USED
1	SOLID	160	3.3	Cs-137	13mCi	III	YELLOW
2	"	1.3	0.10	Ra-226	40uCi	I	YELLOW
3	"	2.0	0.08	Co-60	6.25uCi	IV	YELLOW
4	"	0.90	0.07	Co-60	6.25uCi	IV	YELLOW
5	"	1.0	0.07	Co-60	6.25uCi	IV	YELLOW
6	"	0.46	0.06	Ag-110m	2uCi	III	WHITE I
7	"	1.4	0.11	Ag-110m	6uCi	III	YELLOW
8	"	1.6	0.08	Co-60	6.25uCi	IV	YELLOW
9	"	0.20	0.05	Co-60	6.25uCi	IV	WHITE I
10	"	0.22	0.04	SrY-90	9.5uCi	I	WHITE I
11	"	1.0	0.05	SrY-90	9.5uCi	I	YELLOW
12	"	1.2	0.07	SrY-90	9.5uCi	I	YELLOW
13	"	1.1	0.06	SrY-90	9.5uCi	I	YELLOW
14	"	0.41	0.05	Co-60	6.25uCi	IV	WHITE I
15	"	1.4	0.07	SrY-90	9.5uCi	I	YELLOW
16	"	12	0.14	SrY-90	9.5uCi	I	YELLOW
17	"	11	0.12	SrY-90	9.5uCi	I	YELLOW
18	"	0.80	0.05	SrY-90	9.5uCi	I	YELLOW
19	"	0.28	0.05	SrY-90	9.5uCi	I	WHITE I
20	"	0.48	0.06	SrY-90	9.5uCi	I	WHITE I
21	"	1.4	0.05	SrY-90	9.5uCi	I	YELLOW
22	"	0.47	0.04	SrY-90	9.5uCi	I	WHITE I
23	"	1.4	0.06	SrY-90	9.5uCi	I	YELLOW
24	"	0.30	0.04	SrY-90	9.5uCi	I	WHITE I
25	"	0.27	0.05	SrY-90	9.5uCi	I	WHITE I
26	"	1.5	0.07	SrY-90	9.5uCi	I	YELLOW
27	"	1.1	0.06	SrY-90	9.5uCi	I	YELLOW
28	"	0.22	0.04	SrY-90	9.5uCi	I	WHITE I
29	"	0.90	0.05	SrY-90	9.5uCi	I	YELLOW
30	"	3.8	0.07	SrY-90	9.5uCi	I	YELLOW
31	"	0.48	0.05	SrY-90	9.5uCi	I	WHITE I
32	"	20	0.19	SrY-90	9.5uCi	I	YELLOW
33	"	1.7	0.06	SrY-90	9.5uCi	I	YELLOW
34	"	0.19	0.04	SrY-90	9.5uCi	I	WHITE I
35	"	2.5	0.06	SrY-90	9.5uCi	I	YELLOW
36	"	1.8	0.05	SrY-90	9.5uCi	I	

DEPARTMENT OF THE ARMY
U. S. ARMY ENVIRONMENTAL HYGIENE AGENCY
ABERDEEN PROVING GROUND, MD 21010

USAEHA-RH

22 MAY 1973

SUBJECT: Radiation Protection Survey, USACMLCS, Fort McClellan, AL

Commandant
USACMLCS
Fort McClellan, AL 23201

1. Reference TWX, R301659Z, April 1973, subject: Disposition of Radioactive Material.

2. The close-out radiation protection survey has been scheduled for 28-31 May 1973. Coordination for the survey has been accomplished by FONECON between MAJ Charles Wickstrom, USACMLCS, and MAJ Gordon M. Lodde, this Agency.

3. Survey Officers	Security Clearance
MAJ Gordon M. Lodde, MSC 728-05-8505	Secret
Mr. Lorenzo Wilborn, DAC 452-64-4783	Secret

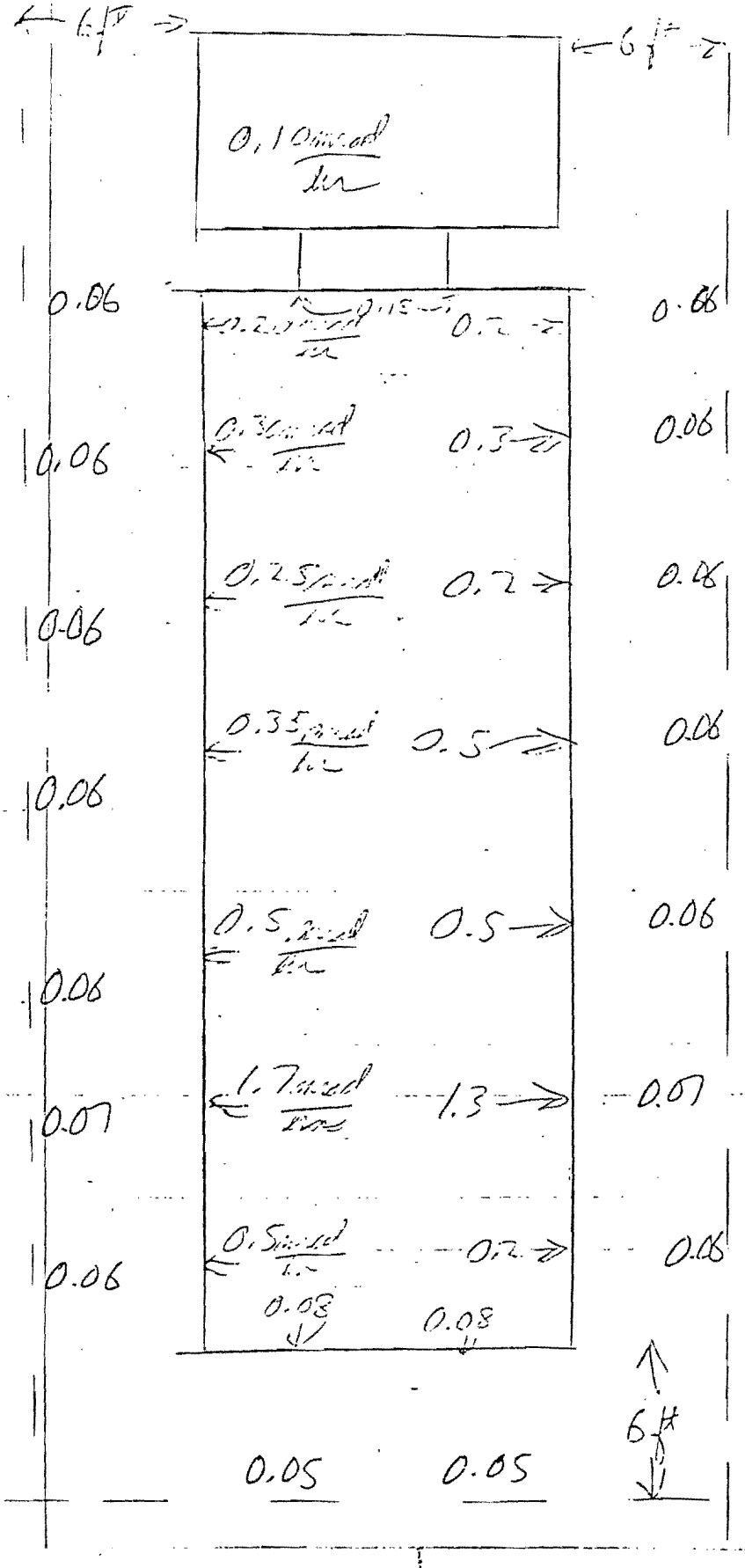
FOR THE COMMANDER:

JAMES F. JONES
Captain, MSC
Adjutant

CF:
DASG-HCH
Cdr, HSC (HSC-PA-H)
Cdr, Third US Army, ATTN: Surgeon
Cdr, CONARC, ATTN: Surgeon
Cdr, CONARC, ATTN: ATLOG-MAI-EQ
Cdr, MEDDAC, Ft McClellan
Cdr, USASTC
HQDA (DALO-MAS-I)

RADIOACTIVE SHIPMENT RECORD

ITEM NO	PHYSICAL STATE	RADIATION, MR/HR AT SURFACE	AT 3'	PRINCIPAL ISOTOPE(S)	BYPRODUCT CURIES	TRANSPORT GROUP(S)	LABEL USED
1	SOLID	160	3.3	Cs-137	13mCi	III	YELLOW
2	"	1.3	0.10	Ra-226	40uCi	I	YELLOW
3	"	2.0	0.08	Co-60	6.25uCi	IV	YELLOW
4	"	0.90	0.07	Co-60	6.25uCi	IV	YELLOW
5	"	1.0	0.07	Co-60	6.25uCi	IV	YELLOW
6	"	0.46	0.06	Ag-110m	2uCi	III	WHITE
7	"	1.4	0.11	Ag-110m	6uCi	III	YELLOW
8	"	1.6	0.08	Co-60	6.25uCi	IV	YELLOW
9	"	0.20	0.05	Co-60	6.25uCi	IV	WHITE
10	"	0.22	0.04	SrY-90	9.5uCi	I	WHITE
11	"	1.0	0.05	SrY-90	9.5uCi	I	YELLOW
12	"	1.2	0.07	SrY-90	9.5uCi	I	YELLOW
13	"	1.1	0.06	SrY-90	9.5uCi	I	YELLOW
14	"	0.41	0.05	Co-60	6.25uCi	IV	WHITE
15	"	1.4	0.07	SrY-90	9.5uCi	I	YELLOW
16	"	12	0.14	SrY-90	9.5uCi	I	YELLOW
17	"	11	0.12	SrY-90	9.5uCi	I	YELLOW
18	"	0.80	0.05	SrY-90	9.5uCi	I	YELLOW
19	"	0.28	0.05	SrY-90	9.5uCi	I	WHITE
20	"	0.48	0.06	SrY-90	9.5uCi	I	WHITE
21	"	1.4	0.05	SrY-90	9.5uCi	I	YELLOW
22	"	0.47	0.04	SrY-90	9.5uCi	I	WHITE
23	"	1.4	0.06	SrY-90	9.5uCi	I	YELLOW
24	"	0.30	0.04	SrY-90	9.5uCi	I	WHITE
25	"	0.27	0.05	SrY-90	9.5uCi	I	WHITE
26	"	1.5	0.07	SrY-90	9.5uCi	I	YELLOW
27	"	1.1	0.06	SrY-90	9.5uCi	I	YELLOW
28	"	0.22	0.04	SrY-90	9.5uCi	I	WHITE
29	"	0.90	0.05	SrY-90	9.5uCi	I	YELLOW
30	"	3.8	0.07	SrY-90	9.5uCi	I	YELLOW
31	"	0.48	0.05	SrY-90	9.5uCi	I	WHITE
32	"	20	0.19	SrY-90	9.5uCi	I	YELLOW
33	"	1.7	0.06	SrY-90	9.5uCi	I	YELLOW
34	"	0.19	0.04	SrY-90	9.5uCi	I	WHITE
35	"	2.5	0.06	SrY-90	9.5uCi	I	YELLOW
36	"	1.8	0.05	SrY-90	9.5uCi	I	YELLOW
37	"	2.2	0.06	SrY-90	9.5uCi	I	YELLOW
38	"	0.23	0.05	SrY-90	9.5uCi	I	WHITE
39	"	4.7	0.07	SrY-90	9.5uCi	I	YELLOW
40	"	1.0	0.06	SrY-90	9.5uCi	I	YELLOW
41	"	30	0.15	SrY-90	9.5uCi	I	YELLOW
42	"	40	0.08	SrY-90	9.5uCi	I	YELLOW
43	"	1.3	0.07	SrY-90	9.5uCi	I	YELLOW
44	"	0.30	0.05	SrY-90	9.5uCi	I	WHITE
45	"	0.80	0.06	SrY-90	9.5uCi	I	YELLOW
46	"	0.22	0.04	SrY-90	9.5uCi	I	WHITE
47	"	0.30	0.06	Co-60	6.25uCi	IV	WHITE
48	"	0.45	0.05	Co-60	6.25uCi	IV	WHITE
49	"	1.7	0.07	Co-60	6.25uCi	IV	YELLOW
50	"	2.0	0.07	Co-60	6.25uCi	IV	YELLOW
51	"	0.20	0.05	Co-60	6.25uCi	IV	WHITE
52	"	0.30	0.05	Co-60	6.25uCi	IV	WHITE
53	"	0.90	0.07	Co-60	6.25uCi	IV	YELLOW
54	"	1.0	0.07	Co-60	6.25uCi	IV	YELLOW


6 in
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0.08
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6 ft
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0.05

S-20 June 73

SMUEA-TS-MC (10 May 73) 1st Ind
SUBJECT: Disposition Instructions on Radioactive Waste

DA, HQ, Edgewood Arsenal, Edgewood Arsenal, MD 21010 16 MAY 1973

THRU:

TO: Commander, US Army Chemical Center and School, Attn: ATSCM-HP, Ft McClellan, Alabama 36201

1. The radioactive material reported in basic letter may be shipped with two copies of each shipping document (DD Form 1348-1) to: Nuclear Engineering Company, Inc, KY Svc Cen, Morehead, Kentucky 40351 for land burial. Disposal costs are chargeable to Edgewood Arsenal's contract number DAAA15-73-D-0010, Control number SMUEA-~~MSR~~ TS-MC 240-73 has been assigned to this shipment and must appear on all copies of each shipping document. A copy of each shipping document must be submitted to us at the time of shipment. Shipment must be completed by 20 June 1973.

2. Disposal costs are based on the volume shipped; therefore, the cubic footage of shipment should be calculated accurately and reported on each shipping document. Each document will contain the following signed certification:

"This is to certify that the above-named articles are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

3. Specific instructions applicable to packaging and labeling requirements for this shipment are attached as inclosure 2.

4. Your local transportation officer will supply appropriate shipping criteria in conformance with AR 55-55. As prescribed by AR 755-15, costs for packaging, handling, and transportation are a funding responsibility of the shipping inatallation.

5. Shipment by parcel post or any other type of United States mail is not authorized.

2

SMUEA-TS FL 15
1 Dec 71

Replaces SMUEA-IS FL 26, 1 Feb 71, which is obsolete.

SMUEA-TS-MC (10 May 73) 1st Ind
SUBJECT: Disposition Instructions on Radioactive Waste 16 MAY 1973

6. Request the attached form (inclosure 3) be completed and attached to the shipping document that is attached to the shipping container.

FOR THE COMMANDER:

ROBERT L. DEAN
Contracting Officers' Representative

3 Incl
~~Atted~~ 2 incl
2. Instructions
3. Shipment Form

CF:
Nuclear Engr Co, Inc
Attn: Mr. Crase
Cdr, CONARC, Attn: ATLOG-MAT-EQ

SMUEA-TS FL 15
1 Dec 71

Replaces SMUEA-IS FL 26, 1 Feb 71, which is obsolete.

DEPARTMENT OF THE ARMY
U S ARMY CHEMICAL CENTER AND SCHOOL
FORT MC CLELLAN, ALABAMA 36201

ATSCM-HP

10 MAY 1973

SUBJECT: Disposition Instructions on Radioactive Waste

Commander
Edgewood Arsenal
ATTN: SMUEA-TS-MC
Edgewood Arsenal, Maryland 21010

1. Request disposition instructions on 75 55-gallon drums of radioactive waste.

2. Information required by para 15b of AR 755-15 is attached as inclosure 1.

3. Request the handling of this matter be expedited.

FOR THE COMMANDANT:

DAVID H. DODD
CPT, CmlC
Assistant Secretary

1 Incl
as

CF: Cdr, TUSA
ATTN: AJAGL-M-M
Cdr, CONARC
ATTN: ATLOG-MAT-EQ

1. Nomenclature and Federal Stock Number and where applicable, serial numbers: NA

2. Physical description of items to include:

a. Solid
b. Quantity: NA
c. Number of items per package and type of package: NA, Type A (Metal 55-gal drums) DOT 17H.
d. Number of shipping containers: 75
e. Exterior dimensions and weight of packaged shipping container: 9.2 cubic feet and approximately 500 lbs ea.
f. Shielding material and thickness if applicable: Drum #1 shielded with concrete 10" thick minimum.

3. Chemical and radioisotopic description:

a. Hazardous chemicals present: NA
b. For liquids the solvent present: NA
c. Radioisotopes present: Co-60, Sr-Y90, Cs137, Ba133, Rb-86, Sc-46, Ce-141, Ag-110m, Hg-203, Ca-45, Ru-106, Bi-210, TL-204, C-14, Pa-234, Au-198, Mn-54, Na-22, Co-57, H-3.

4. Radioactivity and radiation measurements:

a. Millicuries of activity of each radioisotope:

Isotope	Activity	Date
Co-60	0.048 UCI	15 May 73
Cs-137	0.085 UCI	Mar 73
Ba-133 (sim I-131)	0.055 UCI	15 May 73
Rb-86	0.300 UCI	15 May 73
Sc-46	4.45 MCI	15 May 73
Cs-137	4.95 MCI	12 Apr 73
Ce-141	0.531 UCI	15 May 73
Ag-110M	2.87 MCI	15 May 73
Rb-86	0.000152UCI	15 May 73
Hg-203	0.152 UCI	15 May 73
Ca-45	20.8 UCI	15 May 73

Incl 1

Isotope	Activity	Date
Co-60	0.777 MCI	10 May 73
Ca-45	0.947 MCI	15 May 73
Ru-106	0.0000251 UCI	Jan 73
Bi-210	0.0698 UCI	Jan 73
TL-204	0.0124 UCI	Jan 73
Co-60	0.787 UCI	May 73
C-14	0.57 UCI	Jan 73
Bi-210	0.05 UCI	Jan 73
Pa-234	0.0116 UCI	Jan 73
C-14	0.146 UCI	Jan 73
Co-60	0.00979 UCI	May 73
TL-204	0.00393 UCI	May 73
Bi-210	0.0290 UCI	May 73
Au-198	Negligible	May 73
Au-198	Negligible	May 73
Co-60	0.00925 UCI	May 73
Mn-54	0.00000344 UCI	May 73
Cs-137	0.15 UCI	May 73
Na22	0.00145 UCI	May 73
Co-57	0.00000268 UCI	May 73
H-3	7.34 UCI	May 73
Sr-Y90	> 1 UCI	May 73
Sr-Y90	0.0532 UCI	May 72
Au-198	Negligible	May 73

Isotope	Activity	Date
Au-198	Negligible	May 73
Au-198	Negligible	May 73
Au-198	Negligible	May 73
Ag-110m	7.88 UCI	15 May 73
Rb-86	0.000000145 UCI	15 May 73
Ce-141	0.000298 UCI	15 May 73
Au-198	Negligible	May 73
Co-60	>170 UCI	May 73 (estimate)
Sr-Y90	>410 UCI	May 73 (estimate)
Ra-226	>40 UCI	May 73 (estimate)
Cs137	>20 UCI	May 73 (estimate)

b. Maximum radiation dose rates (mrad/hr) at the surface and at 1 meter from the surface of the radioactive items if practical: Not practical.

c. Maximum radiation dose rates at surface and at 1 meter from the surface of the package:

Drum #	Surface (all reading in mrad/hr)	@ 1 meter	Label
1	160	3.3	Yellow III
2	1.3	0.10	Yellow II
3	2.0	0.08	Yellow II
4	0.90	0.07	Yellow II
5	1.0	0.07	Yellow II
6	0.46	0.06	White I
7	1.4	0.11	Yellow II
8	1.6	0.08	Yellow II
9	0.20	0.05	White I
10	0.22	0.04	White I

Drum #	Surface (all reading in mrad/hr)	@ 1 meter	Label
11	1.0	0.05	Yellow II
12	1.2	0.07	Yellow II
13	1.1	0.06	Yellow II
14	0.41	0.05	White I
15	1.4	0.07	Yellow II
16	12	0.14	Yellow III
17	11	0.12	Yellow III
18	0.8	0.05	Yellow II
19	0.28	0.05	White I
20	0.48	0.06	White I
21	1.4	0.05	Yellow II
22	0.47	0.04	White I
23	1.4	0.06	Yellow II
24	0.30	0.04	White I
25	0.27	0.05	White I
26	1.5	0.07	Yellow II
27	1.1	0.06	Yellow II
28	0.22	0.04	White I
29	0.9	0.05	Yellow II
30	3.8	0.07	Yellow II
31	0.48	0.05	White I
32	20	0.19	Yellow III
33	1.7	0.06	Yellow II
34	0.19	0.04	White I

Drum #	Surface (all readings in mrad/hr)	@ 1 meter	Label
35	2.5	0.06	Yellow II
36	1.8	0.05	Yellow II
37	2.2	0.06	Yellow II
38	0.23	0.05	White I
39	4.7	0.07	Yellow II
40	1.0	0.06	Yellow II
41	30.0	0.15	Yellow III
42	40.0	0.08	Yellow III
43	1.3	0.07	Yellow II
44	0.30	0.05	White I
45	0.80	0.06	Yellow II
46	0.22	0.04	White I
47	0.30	0.06	White I
48	0.45	0.05	White I
49	1.7	0.07	Yellow II
50	2.0	0.07	Yellow II
51	0.20	0.05	White I
52	0.30	0.05	White I
53	0.90	0.07	Yellow II
54	1.0	0.07	Yellow II
55	0.4	0.06	White I
56	0.24	0.04	White I
57	0.9	0.07	Yellow II
58	2.7	0.07	Yellow II
59	0.26	0.04	White I

Drum #	Surface (All readings in mrad/hr)	@ 1 meter	Label
60	1.6	0.06	Yellow II
61	0.32	0.05	White I
62	2.1	0.16	Yellow II
63	13	0.27	Yellow III
64	0.15	0.05	White I
65	3.2	0.08	Yellow II
66	0.30	0.06	White I
67	0.28	0.05	White I
68	0.24	0.05	White I
69	2.0	0.06	Yellow II
70	2.4	0.07	Yellow II
71	4.6	0.17	Yellow II
72	3.1	0.13	Yellow II
73	4.0	0.14	Yellow II
74	2.3	0.08	Yellow II
75	1.2	0.07	Yellow II

d. Security consideration:

(1) Classification: UNCLASSIFIED.

(2) Procedures for declassification: None.

Packaging and Labeling Requirements for Radioactive Material

CONTROL NUMBER SMUEA-~~MSD~~TS-MC-240-73

1. Concur with packaging method as stated in basic letter. There will be no removable contamination on the surface of shipping container. Two completed DA Labels* (as below) and one completed DA Label 15 will be applied to the exterior of each shipping container. Exterior surface of shipping container will be marked to indicate the Transport Index (MR/HR reading at three feet from the surface of package) as required by DOT Regulation T. C. George's Tariff 25, paragraph 173.389.

2. It is urgent that you submit copy of each shipping document (DD Form 1348-1, and copy of Government Bill of Lading) including the assigned control number, paragraph 1 of (indorsement) (letter) to the following address:

Commanding Officer
Edgewood Arsenal
ATTN: SMUEA-TS-MC
Edgewood Arsenal, MD 21010

3. The above information must be included on the shipping documents that are attached to the shipping container. This information is necessary for identification of your shipment.

NOTE: DO NOT SHIP THE ABOVE MATERIAL BY RAILWAY EXPRESS AGENCY

*Labels will be as indicated in your letter.

Incl 2

SMUEA-TS FL 15-4
15 Sep 72

DEPARTMENT OF THE NAVY
NAVAL ELECTRONIC SYSTEMS COMMAND
SOUTHEAST DIVISION
ROOM 512, FEDERAL BUILDING
334 MEETING STREET
CHARLESTON, S. C. 29403

IN REPLY REFER TO:
Code 502:lm
9673
Ser 05-288
18 MAY 1973

SECOND ENDORSEMENT on NAVTRAU Fort McClellan ltr 00:blm 9673 Ser:76 of 23 April 1973

From: Commanding Officer, Naval Electronic Systems Command, Southeast Division
To: Commander, Naval Electronic Systems Command (Code 05162)

Subj: Disestablishment of Radiac-Radiation Sources Allowance - inventory and request for disposition instructions thereto

1. Forwarded, recommending that subject allowance be disestablished and that the equipment be transferred as indicated below:

Item	Nomenclature	Qty	Transfer to:
1	AN/PDR-43	3	NAS Atlanta, Ga. for disaster preparedness Radiac equipment allowance
2	AN/PDR-27CY	7	NAS Meridian Miss. for disaster preparedness Radiac equipment allowance
	AN/PDR-27Q	4	NAS Meridian Miss. for disaster preparedness Radiac equipment allowance
	AN/PDR-27R	6	Naval Unit, Lowry Air Force Base Colorado for allowance requested in reference (c).
3	AN/PDR-56A	5	Naval Unit, Lowry Air Force Base, Colorado for allowance requested in reference (c)
4	AN/PDR-70	6	Disposition should be determined by NAVELEX Code 05162
5	AN/PDR-71	2	Disposition should be determined by NAVELEX Code 05162
6	PRM-5N/SPA-3	2	NAVELECSYSCOMSEDIV for future disposition by NAVELEX

Code 502:lm
9673
Ser 05-288

Item	Nomenclature	Qty	Transfer to:
7	DT-60	80	Dispose of as scrap
8	IM-9G/PD	3	Naval Unit, Lowry Air Force Base Colorado for allowance requested in reference (c)
	IM-9G/PD	10	NAS Atlanta GA for disaster preparedness AG Team Radiac equipment allowance
	IM-9G/PD	4	NAVELECSYSCOMSEDIV for future disposition
9	IM-135/PD	2	Naval Unit, Lowry Air Force Base Colorado for allowance requested in reference (c)
10	IM-143/PD	3	Naval Unit, Lowry Air Force Base Colorado for allowance requested in reference (c)
11	IM-153/PD	3	Naval Unit, Lowry Air Force Base Colorado for allowance requested in reference (c)
12	PP-354E/PD	2	Naval Unit, Lowry Air Force Base Colorado for allowance requested in reference (c)
	PP-354E/PD	5	Dispose of as scrap
	PP-4276A/PD	2	Naval Unit, Lowry Air Force Base Colorado for allowance requested in reference (c)
	PP-4276A/PD	3	NAS Atlanta for disaster preparedness Radiac equipment allowance
		2	

Code 502:1m
9673
Ser 05-288

Item	Nomenclature	Qty	Transfer to:
13	CP-95/PD	1	Lowry Air Force Base Colorado for allowance requested in reference (c)
	CP-95/PD	2	NSC, NORVA for 2Z stock assets
14	TF1A	3	Disposition should be determined by NAVELEX Code 05162
15	AN/UDM-1A	1	Ship as directed in NAVELEX Msg R071657Z May 1973
16	SK-1	1	NAVELECSYSCOMSEDIV for future disposition
17	DIG-1N	1	NAVELECSYSCOMSEDIV for Radiac use
18	MRC-1 Neutron Source	1	Disposition should be determined by NAVELEX Code 05162 and/or NAVFAC Code 042
19	71864 Neutron Beam Facility	1	Disposition should be determined by NAVELEX Code 05162 and/or NAVFAC Code 042.

H. E. SOWELL
By direction

Copy to:
NAVTRAU Ft. McClellan
CNTT Code N541
NAVFAC 042
CMNDT USACMLCS Ft. McClellan
NAVNUPNRU Ft Belvoir
NSC, CHASN

See Items 15, 18, 19

ROUTING FOR INFT.	
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MAY 73

STATEMENT

SUBJECT: 11F3A Device

The 11F3A device belonging to the Naval Training Unit at Ft McClellan has been found to be radioactively contaminated beyond acceptable published limits.

DISPOSAL METHOD:

Consigned to civilian contractor(Nuclear Engineering Corp) as radioactive waste, for burial in Moorehead,Kentucky , IAW AR 755-15, under Edgewood Arsenal waste disposal action control number : SMUEA-TS-MC240-73.

CHARLES J. WICKSTROM
MAJ, CmlC
C, Health Physics Div, USACMLCS

ORIG to NAVTRAU

ATSCM-HP RELEASE OF ITEMS FOR USE AS TARGETS

Range Officer
Ft McClellan

C, Health Physics Div
USACMLCS

22 May 73
MAJ Wickstrom/cw/3937

1. This DF is in response to your request for a document from a radiologically responsible person clearing items that we are laterally transferring to you for use as targets on Pelham Range impact areas.

2. The following items are involved:

1 ea	Armoted Personnel Carrier	color: OD
1 ea	Truck, 3/4 ton	OD
1 ea	Radar Unit, Air Defense, towed	White
1 ea	Aircraft Frame, naval (disassembled into 2 segments for handling)	Yellow

For further identification, and for distinguishing the above items in comparison to other items which may have been contaminated with chemical or biological agents, the above four items have been marked with the word "RAD", followed by a diagram of a Helium atom, using yellow paint.

3. These items have been contaminated with radioactive material for training purposes. However, the material has undergone sufficient decay to allow release of the items for unrestricted use and appropriate tests have been made to confirm this. Therefore I certify that these items may be used without radiological precautions.

4. I would remind you that these items were originally procured from Anniston Army Depot as salvage items with the proviso that they never be used for their originally intended purpose.

CHARLES J. WICKSTROM
MAJ, CmlC
C, Health Physics Division, USACMLCS

Moved to R-51 on 22-23 May

ATSCM-HP Request for Turn In Action

USACMLCS Office of Logistics Health Physics Division - 22 May 73
MAJ Wickstrom/cw/3937

1. The following information is furnished for DA Form 2765 to turn in the following items currently located in the fenced area behind Bldg 3182:

FSN: 8120-NSN
Noun: CONTAINER, steel lined, lead, radioactive material, 3 ton
Quantity: 2 each

2. The condition of the items is serviceable, but there will be no one on Post who will need them after we leave. Furthermore, even the lids are so heavy that it takes a wrecker to lift them. Thus these containers("lead pigs") would not be usable on Post after we leave, as we see it. For this reason we recommend turn in to salvage... the lead when melted down might be of some salvage value.

3. These items have been used as source storage containers for Cobalt-60 radioactive sources. The items remain lightly contaminated(fixed .15 mr/hr, removable 70 dpm/100cm^2), but are well below the required safe limits for release for unrestricted use. Therefore I declare these items safe for turn in to Post without any precautions.

CHARLES J. WICKSTROM
MAJ, CmlC
C, Health Physics Division

HPD File Copy

MEMO FOR RECORD 22 May 73

SUBJ: Conversations with Mr Wright on AEC Licenses - the U-233 Problem

1. At 0847 hrs 21 May Mr Wright called to say that our shipment of 43 containers had arrived and was off loaded Fri and everything was OK.

2. However, in off loading the containers they noticed all the ones marked U-233 and Mr Wright remembered that they had deleted the U-233 portion of the allowance on their SNM-9 AEC License within the last year or so since they had sent the last of what they had back to ORNL at that time. Apparently this amendment was dated 5 Sep 72, and they sent a letter [redacted] dated 13 Jul 72 to someone saying all the U-233 had been returne

3. I called Mr Wright back on 22 May after talking with Oak Ridge Operations Office and Richland Operations Office of the AEC. They indicated it was not a major problem, but should be corrected ASAP.

4. Earl said he is making a Ltr Appl to amend SNM-9 and add 0.025g of U-233 back on. He has notified Mr Fagan of the situation.

C.J.WICKSTROM, MAJOR
C,HPDiv

31 MAY

CLOSE-OUT - HEALTH PHY DIV

21 Feb 73 - SSG Truffa did a rough survey of the Rad Lab Vault. The first survey was done with a PG1 probe, plotting the 10^5d $2x10^6$ CPM contours, going back over the vault with an AN/PDR-27, the General Background was 0.1 mr/hr in the vault (with all sources removed) hot spots of 210 mr/hr, 110 mr/hr, and 16 mr/hr were found on the floor, the general BG on the surface of the floor with the Beta shield open ranged between 0.2 and 0.4 mr/hr, although spots ranged from 0.5 - 1.5 mr/hr.

SSG Truffa started the recirculation pump to the 1,500-gal tank at 1410 hrs. This is in preparation of drawing another water sample for AEHA. SSG Truffa also drew a tap water sample as a background sample for AEHA.

22 Feb 73 - SSG Truffa drew a sample for the AEHA from the 1,500-gal hot cell storage tank. Both this sample and the one taken yesterday were packaged in a wooden box and will be shipped to AEHA ASAP.

23 Feb 73 - SSG Truffa took paint and cement samples in the Rad Lab Vault. Conclusion: Only one paint sample came out "hot" and this was in the vicinity of the two spots reading 210 mr/hr and 110 mr/hr. The walls and ceiling appear to be clean. Recommendation: (1) Remove "3 hot spots" by jackhammer. (2) Vacumn up all dust and debris. (3) Resurvey using PG2 and PRM-5. (4) Repeat steps 1 - 3 for any other "hot spots" found. Ran liquid scint count on sample - 2 peaks, results inclusive.

26 Feb 73 - Ran sample thru single channel analyzer, results: Cs137 conclusive.

27 Feb 73 - SSG Truffa vacuumed the Rad Lab Vault and spray painted over the chipped surfaces to seal the contamination.

1 Mar 73 - SSG Truffa collected the waste from Lab "T" and the Isotope Lab, and began an extensive survey of the Isotope Hood. A hot spot was found on the lead glass and was rewiped until within limits. One hot spot was found on a metal plate which will be disposed of. The survey is being performed with the PRM-5 and the fiddler probe, and AN/PDR27 with the beta window exposed and swipe tests for removable contamination. The liquid samples asked for by MAJ Lodde of AEHA were given to Ofc of Log for shipment.

2 Mar 73 - SSG Truffa continued the survey of the Isotope hood. The rear wall of the hood was removed and was found to be contaminated to about 0.1 mrad/hr and 10,000 DPM/500cm^2 maximum on the reverse side.

5 Mar 73 - SSG Truffa wiped off the reverse of the rear wall with damp sponges and rewiped the surfaces, the maximum removable was about 2,000 DPM/500cm^2 - SP4 Holdeman was informed and said he would try to decon it further using a decon solution. SSG Truffa vacuumed the floor in the area of the hood. The reading on the inside rear wall of the hood ranged from 0.07 to 0.15 mrad/hr.

A decon solution was made up and applied 3 times, using steel wool. The majority of the rust was removed and the readings dropped to between 0.04 and 0.1 mrad/hr. Removable contamination will be further evaluated. The hood was further dismantled taking out the pre-filter which was contaminated and the overhang above the glass was found to read up to 0.2 mrad/hr.

8 Mar 73 - SSG Truffa vacuumed around hood and further dismantled the hood to get to the MSA filter. These parts read up to 0.17 mrad/hr. The MSA Filter was removed and found to be not contaminated.

5-7Mar 73 - Eng (46th) constructed wall between classroom and Hot Cell controls - will finish Monday.

9 Mar 73 - Eng (Post) dug drainage trenches in Hot Cell yard - will return 12 Mar 73 to finish.

9 Mar 73 - SSG Truffa surveyed the duct work from the Isotope hood to the roof exhaust. The duct work appears contaminated as does the exhaust assembly on the roof readings appear uniform at about 0.2 mr/hr. The rest of the day was spent in trying to locate the duct work between the ceiling of the 2d floor and the roof and finding the keys to rooms the duct work came through - all without success.

12 Mar 73 - SSG Truffa found the keys to the rooms with the duct work. The duct work reads between 0.04 and 0.07 mrad/hr on contact as far as SSG Truffa could follow it. Eng finished trench work and started waterproofing around liquid disposal pit.

13 Mar 73 - Work was begun to break up and remove the concrete pad surrounding Bldg 3180. A 5-man detail was supplied by Sch Bn and an NCOIC, crane operator, and driver for a 5-ton dump truck were supplied by 46th Eng. Initially, the concrete slab was watered down and covered with burlap to keep the dust low. The slab was broken up using the crane and a 3-ton metal ball. An air sample was run during the entire operation. Prior to the slab break-up, all the sources from the Vault were removed and placed in Lab "W" for safety and security. The highest readings found were 15 mrad/hr and this was on one of many lead bricks apparently used for shielding before the concrete was poured over it. Although the plaque marking the spill identified the isotope as Sr-90, the reading with the beta window open and closed and AN/PDR-27 showed no change, indicating a gamma emitter. The dose rates encountered did not approach the 300 mrad/hr expected. The dose rates found indicate the spill was spread before the concrete was laid or the isotope had gone through at least 5 half lifes or a half life of about 3 years. The concrete was removed and placed in 55-gal drums. The area was reduced to below 0.4 mrad/hr with a few spots as high as 2 mrad/hr before quitting. 33 55-gal drums were filled. Air samples did not even come to twice background on immediate count.

14 Mar 73 - Sch Bn supplied another 5-man detail, 46th Eng supplied an NCOIC and crane operator. The remainder of the pad was broken up and filled 10 more 55-gal drums. Air samples were negative. The area was down to 0.1 mrad/hr in general with hot spots of 0.3 mrad/hr. Although these spots are within allowable limits, attempts will be made later to lower them further.

In the afternoon, 2 people from the 46th Eng and SSG Truffa started chipping up the floor of the Rad Lab Vault using an impact hammer, a broom to hold down the dust and the vacuum cleaner. The 210 and 110 mrad/hr spots were removed first and the area surrounding it had to be removed. Some areas around the removed portion are still reading 2 mrad/hr and must be further removed.

15 Mar 73 - SSG Truffa and 2 people from 46th Eng were able to get a little more of the floor in the vault chipped up in the afternoon. The Eng also brought the radiation warning signs for the Hot Cell and liquid waste system.

16 Mar 73 - Because of rain, the Eng (46th) worked on the wall in the Hot Cell. SSG Truffa spray painted the floor of the vault where the chipping was done and moved the sources back into the vault.

19 Mar 73 - 46th Eng worked on wall in Hot Cell and started painting wall. A 4-man detail from Sch Bn, SSG Truffa and MAJ Wickstrom went to Iron Mountain to remove contaminated dirt. Four hot spots were found, ranging from 0.5 to 2.3 mrad/hr. One of the spots went down to about 3-4 ft and was still over 0.5 mrad/hr. It was decided to get a back-hoe to remove the rest of the hot spot. Eight 55-gal drums of dirt were removed.

20 Mar 73 - 46th Eng worked on painting wall in Hot Cell and started to construct the barrier for the rear portion of the Hot Cell.

23 Mar 73 - Sch Bn furnished a 4-man detail, 46th Eng furnished cement, gravel, sand and 3 people to mix concrete and fill in the two wells around and in Bldg 3180 (Rad Lab Vault). The detail was also used to move and monitor 55-gal drums. A total of 36 drums were monitored at the surface and at 1 meter.

26 Mar 73 - 46th Eng filled in holes made by removing contamination in vault. Started putting up signs.

27 Mar 73 - 46th Eng finished putting up signs except the one for the barrier. Helped SSG Truffa monitor 6 more 55-gal drums.

28 Mar 73 - Post Eng came to pick up dirt generated in improving the drainage in the yard.

29 Mar 73 - 46th Eng filled the drains in the Hot Cell bldg after Post Eng disconnected the gas, water and steam lines. Started storing hot cell related items in the hot cell block.

5 Apr 73 - 46th Eng helped take apart shelves in main area of bldg, then welded shut Hot Cell door and put up barrier. SSG Truffa started vacuuming top of Hot Cell and general clean-up. Took water samples from around Storage Vault. All were less than background. Eng also cut off top of the well around the storage vault and melted the lead linings from around the contaminated pipe in the storage yard. Barrier was completed and sign put up.

10 Apr 73 - Post Eng cut electric power to the Hot Cell. Decon of hot spots in Lab "W" and rest of bldg was begun by SSG Truffa and 46th Eng. The contamination was removed by use of the impact hammer and vacuum cleaner. Holes were filled in with mortar.

11 Apr 73 - Post Eng disconnected water cooler in Bldg 3182 so decon work could be done. The door frame in the museum was cut and left to soak in a decon solution overnight. SSG Truffa packaged 4T5784's for shipment and monitored the Scaler Lab with the PG-2 and the floor monitor, checking indications of "hot spots" with an AN/PDR27. No contamination noted.

12 Apr 73 - SSG Truffa checked contaminated door frame and further decon work was necessary. After 12 washings with concentrated hydrochloric acid, the readings were down to about 0.1 mrad/hr using an AN/PDR27 with the beta shield open. Decon was continued by 46th Eng and the spot where the water cooler was and the spot below the door jamb in the museum. All the holes were filled with mortar and Lab "W" was retiled over the deconed areas. Work was begun on replacing tile blocks that had to be removed from the walls. SSG Truffa finished packing up the 20 TS784's.

13 Apr 73 - 46th Eng continued patching and retiling operations.

16 Apr 73 - 46th Eng continues patching operations. SSG Truffa removed all the liquid waste from the Isotope Vault and placed it in concrete, lined drum #1 and poured cement over it. This drum will be disposed of as waste. All the lead pipe used for storage of liquid waste were monitored with an AN/PDR27 with the beta shield open. All those found contaminated were disposed of. Water cooler was reconnected.

17 Apr 73 - 46th Eng finished patching decon work in Lab "W" and hallway. SSG Truffa met with MAJ Neubert to find out what was needed to be done in the Isotope Vault (which isotopes were to be transferred and which disposed of).

18 Apr 73 - A 5-man detail was supplied by Sch Bn for 46th Eng. A concrete apron was poured to replace the pad that was taken up around the Rad Lab Vault (Bldg 318 Sixteen more 55-gal drums were monitored (total 59 drums monitored). All radioactive material was removed from the Isotope Vault, 16-TS784's were labeled and monitoring of the vault was begun by SSG Truffa.

19 Apr 73 - 46th Eng worked on concrete apron. SSG Truffa took wipes and Bromine Pad, all wipes were less than 200 DPM except those taken in the 11F3A Bromine device which ranged around 1000 to 7000 DPM. The remaining 4TS784's were labeled and all 20 were stenciled with "USA DOT 7A TYPE A RADIOACTIVE MATERIAL FACILITY ENG USAS/TC FT MCCLELLAN, AL 36201" IAW Tariff 25.

20 Apr 73 - 46th Eng worked on concrete apron.

21 Apr 73 - SSG Truffa packaged most of the low-level calibration and check sources and surveyed most of the Isotope Vault with the floor monitor and an AN/PDR27. No hot spots were noted. Also numbered the 55-gal waste drums out in the yard.

23 Apr 73 - 46th Eng welded back the deconed door jamb in the museum. 46th Eng also worked on fabricating a shipping container for the 6 Cs137 sources. SSG Truffa surveyed the museum with the PG2 and an AN/PDR27 and found several hot spots, one ranging up to about 0.50 mrad/hr and one spot about 0.3 for a distance of 7' along the baseboard. SSG Truffa also wipe tested the Cs137 sources.

24 Apr 73 - 46th Eng continued to work on shipping container and looked at work to be done in Isotope Lab, on hood ducts and ceiling. It was established by SSG Truffa that the serial number of the AN/UDM-1A was 10 and not 86, as had been listed on the radioisotope inventory. The serial number 86 had belonged to the AN/UDM-1 which was modified to the AN/UDM-1A. SSG Truffa also emptied the Radioactive waste from the vacuum cleaner and started to package the AN/UDM-2. A long count (/6 hr) was begun on the wipe taken out of the 11F3A to determine half-life.

25 Apr 73 - 46th Eng took down ductwork in Isotope Lab. SSG Truffa surveyed with AN/PDR27. It does not appear contaminated. Post Eng came to check pumps in liquid waste control pit; nothing wrong. SSG Truffa wiped the 17-AN/UDM6 source sets. No excess leakage. Moved all 17 UDM 6's and 85MX7338's to the Isotope Vault in preparation for packaging. Packaged 8 boxes of office supplies from the office for shipment to Edgewood Arsenal. Started another long count on the 11F3A sample.

26 Apr 73 - 46th Eng completed the shipping container for the Cs137 sources. The sources were packaged in the container and locked with a chain by SSG Truffa. Sch Bn supplied a 4-man detail to work on the Alpha Field. All 407 alpha plates were removed from the concrete blocks and flushed with water to remove loose dirt and leaves. 172 of the plates were washed in a soap solution with a sponge and put through 2 rinses, then placed in the slotted boxes. The radioactive material signs were removed from the fence around the Alpha Field. The Bromine capsule was removed from the Bromine Field and placed in a 55-gal drum and the high radiation area signs were removed from the fence around the Bromine Field. The long count was continued on the wipe from the 11F3A.

27 Apr 73 - SSG Truffa washed the remaining 235 alpha plates and placed them in boxes as was done 26 Apr 73. All 407 plates were taken to the Rad Lab Vault. 407 plates from the field, 22 stored in Rad Lab Vault and 21 packaged as leakers = 450 plates, all accounted for. Several concrete blocks and the soil around them were checked with an AN/PDR60. No indications of contamination were noted. Water samples were taken from the wash and rinse waters. Soil samples were taken from the soil on and around the cement blocks. Some of the water samples appear slightly contaminated, but not the soil samples. The exact amount of contamination will have to be determined by long counting techniques.

1 May 73 - Sch Bn supplied a 4-man detail and SP4 Holdeman was borrowed from Rad Com to supervise the detail. All the concrete blocks were taken up and moved to the hard stand by the Bromine Field. The garbage cans were moved outside the fence with the fake bomb and drums. All the radiation area signs were gathered up and taken to the Hot Cell along with the nuts and metal pieces for the blocks. The blocks were checked by SP4 Holdeman using an AN/PDR60 alpha counter and the fiddler probe from the broken arrow kit for the U233 pulse height of 17 KEU. No contamination was noted. SP4 Starr and SSG Truffa leak tested the 429 alpha plates. The contaminated bags were moved to the vault. SSG Truffa packed another box of expendable supplies. Long counts were taken on the liquid waste water from the alpha plates.

2 May 73 - 46th Eng finished taking up the contamination in the museum and were told that the 3/4-ton truck and the wall lockers could be turned into Post PPO but the APC, airframe and radar unit would have to go to Anniston Army Depot. SP4 Starr wipe tested the Isotope Lab and Vault, Lab "T" and the storage bins from the vault. The storage bin wipes were counted and the highest levels were 169 DPM/100cm^2. Sch Bn supplied one M12-PDDA and operator to spray off the mud and dirt from the alpha blocks. Two tanks of water were used (1,000 gal of water). SSG Truffa completed counting the water samples and calculates to less than 0.2 uCi. Also packed 4 more boxes for shipment.

3 May 73 - 46th Eng started patching up the decon work in the museum. SP4 Starr continued counting the alpha plate wipes. SSG Truffa packed seven boxes of technical reference material and dosimetry records. Also started packaging AN/UDM 6's and Mx7338's. Made DOT 7A plate for Cs137 source container.

4 May 73 - 46th Eng continued work on museum. SP4 Starr continued counting alpha wipes. SSG Truffa continued counting Isotope and Lab "T" wipes.

7 May 73 - 46th Eng finished work on museum and worked on taking wings off the aircraft on the Bromine Pad. SSG Truffa submitted work order for boxes for radioactive material and the scalers. Also submitted the disposition request for radioactive waste for typing. Made up the radioactive labels for the 55-gal drums of waste. Boxed up 14 UDM 6's for shipment. Finished counting alpha wipes and Lab "T". All wipes within limits. Placed 4 film badges at various spots in the Hot Cell to determine approximate doses to personnel who might work in these areas. Started the pump to pump out the liquid waste disposal tanks for the Hot Cell system.

8 May 73 - SSG Truffa weighed all the radioactive material being shipped to APG, got the cube and took readings on all the boxes at the surface and at one meter. Numbered the boxes 1-43/43. Moved the 2-M3A1 source sets from the Rad Lab Vault to the Isotope Vault. Started to write the request for transportation of the 43 boxes of radioactive material to go to APG.

9 May 73 - SSG Truffa finished and submitted the request for transportation of t 43 boxes of radioactive material to APG for typing. Moved the 2 55-gal drums fr the Isotope Lab to the storage yard and dumped the waste from the Hot Cell. Sur the lead for contamination and found one brick and a lead ring contaminated, put into 55-gal drum. Surveyed the lead storage pigs and found 6 contaminated along

with 1 top. Put all in 55-gal drums. The waste container from the Hot Cell was contaminated also. Took the crash bar and beat it small enough to fit into a 55-gal drum. Checked the 30-gal temporary storage drums and found no contamination with the AN/PDR27 and also the PRM-5 with the PG2 probe. No indications of contamination. Surveyed the storage yard where the background was low enough to allow it. The storage well concrete needs to be taken up, read about 0.5 mrad/hr with an AN/PDR-27. The Northeast corner of the vault reads about 0.3 mrad/hr and will be taken up. Found a spot on the South side of the vault reading 2 mrad/hr and a spot near Lab "W" reading 35 mrad/hr. Both will be taken up. Finish putting corners on the boxes of Rad material for shipment to APG. Also finished labeling the M3A1 source sets. The alpha plates, the contaminated bagged equipment, 3 UDM 6's and the Cs137 sources need to be completed yet. Shut off the liquid waste pump and closed all valves except one, allowing the pump to pump directly to the sanitary sewer. Using the AEHA figures for the sample, we sent of 3.6×10^5 uCi/ml, 700 gal calculates to 95.4 uCi of Co-60 dumped.

10 May 73 - SSG Truffa sent out letter requesting disposition instructions on radioactive waste drums and DF requesting truck (van) for source shipment to APG. Made up letter to cancel film badge service and start at APG. Did calculation in preparation to dump Bromine tanks. Dumped Bromine tanks 3 & 4 and alpha plate wash and rinse water. Found pig on Bromine Pad contaminated, will put in drum. Showed 46th Eng what had to be done and told them of plans to put Bromine Pad items on Pelham Range for targets. Took down alpha field sign. Took the lock off the gate and opened the gates. Put the alpha plate wash and rinse buckets in waste drum. Took the lock off the Bromine Pad final discharge valve.

11 May 73 - 46th Eng worked on Bromine Pad to get pad items ready for transfer. SSG Truffa retrieved environmental check film badges. Time of exposure 127 hrs. Sent request to change film badge service.

14 May 73 - 46th Eng worked on airframe on Bromine Pad. Sch Bn supplied a 5-man detail for Iron Mountain. Post Eng supplied a backhoe. Backhoe dug down to about 7-8'. Highest readings found, 1.5 mrad/hr filled 3½ 55-gal drums with dirt. Filled back in hole and readings now 0.20-0.25 mrad/hr at the surface with an AN/PDR27. Neutron source was leak tested and packaged for shipment. The area of Lab "W" where the neutron source was located was surveyed with the PRM5 and PG2 probe. No indications of contamination were found. The neutron source was put in the Isotope Vault. All sources have now been closed in their shipping containers except the AN/UDM-1A and 3 commercial scaler calibration sources. All shipping containers have been marked and labeled except the Cs137 source container. All shipping containers must now be banded and the "TO" and "FROM" labels put on them.

15 May 73 - Got transportation request into transportation on 75 55-gal drums of waste and neutron source. 46th ENG started to clean up storage yard. SSG Truffa banded and put address labels on all radioactive source containers except the Cs137 container and 3 scaler calibration sources-all sources except those and the AN/UDM1A are ready to go.

16 May 73 - Gave remaining uncontaminated lead to 46th Eng and they began cleaning storage yard with help of 3-man detail from Sch Bn. Took 2 5-ton dump trucks from storage yard, Bromine Pad, Alpha Field and Hot Cell. Sch Bn furnished 2½-ton truck and driver w/ 3-man detail to take over sample of 55-gal drums to Transportation to be weighed. Drum #53-475 lbs, #52-728lbs, #45-676 lbs #66-546 lbs, #1-1,038 lbs. With about 20 55-gal drums well under 200 lbs, 500 lbs per drum was agreed upon as a good estimate.

17 May 73 - Shipped out 43 containers of sources to APG by Roadway Trucking Co. 46th Eng started decon work on 8 hot spots in storage yard. SSG Truffa packed up radiation signs and checked fence line for signs.

18 May 73 - Sch Bn supplied a 6-man detail to tighten the lids on the 74 55-gal drums. Also labeled them. 46th Eng finished decon of 4 hot spots in yard. Post Eng crated up NBIF and all but source container of AN/UDM-1A which was lifted off with help of detail.

20 May 73 - SSG Truffa filled 75th 55-gal drum, dryed out 3-ton container and wipe tested the two 3-ton containers. The 3-tons are slightly contaminated, one reads 0.15 mrad/hr while the other does not indicate any meter readings on the AN/PDR27. Both indicate removable contamination less than 400 DPM/100cm^2. Sampled liquid waste in Isotope Lab, results negative.

21 May 73 - Sch Bn supplied a 4-man detail. The 75 55-gal drums were loaded and shipped by Bowman Trans, Inc. The neutron source was shipped out and SSG Truffa cleared and packed some more of Hot Cell. Checked Storage Yard with PRM 5 w/ PG2 and AN/PDR27; no spots found over limits.

22 May 73 - 46th Eng moved the APC and 3/4-ton truck to Pelham Range from the Bromine Pad. SSG Truffa cleaned up Hot Cell maintenance area in preparation for AEHA inspection.

23 May 73 - 46th Eng moved airframe and radar unit to Pelham Range.

24 May 73 - AN/UDM-1A shipping container was received. Navy supplied 4 personnel and Ofc of Log supplied 2 personnel to load the AN/UDM-1A. MAJ Wickstrom supervised. The container was marked and all documents completed. Alpha Field was plowed up by Post Eng.

25 May 73 - AN/UDM-1A was turned over to Transportation for shipment. 46th Eng continued cleanup of Rad areas. Sch Bn Supplied 4-man detail to mow the grass.

29 May 73 - The AEHA Team of MAJ Loddie and Mr. Wilborn began their inspection. The following areas were checked: Bldg 3182, 3180, Iron Mountain, Rad Labs in Bldg 3181 and the Storage Yard. One spot was found in Bldg 3180 reading about 5 mrad/hr at the surface and one in Bldg 3182 reading about 2 mrad/hr. It was decided some of the soil in the Storage Yard would have to come up. 46th Eng supplied 2 men to remove the contaminated concrete in the Bldgs and Sch Bn supplied 4 men to remove the dirt. 3 55-gal drums of dirt were removed.

30 May 73 - AEHA inspection continued the following areas were checked: Hot Cell, Alpha Field, Bromine Pad and liquid waste control pit. The Team also took 40 swipes in the various areas and one soil sample from the Alpha Field. No more "hot spots" were located. The 2 vacuum cleaners were readied to ship with the 3 55-gal drums of waste to APG. As a result, 5 55-gal drums and the tank vacuum were marked and placed on a 2½-ton truck for convoy to APG. Earl Wright was notified of the details. SSG Truffa started counting the wipes AEHA had taken.

31 May 73 - Mr. Wilborn and SSG Truffa finished counting swipes. All swipes less than 1000 DPM/100 sq cm. Only swipes taken in controlled areas (Hot Cell roof and liquid waste pit) exceeded 114 DPM/100 sq cm, but all were less than 1000 DPM/100 sq cm. AEHA Team briefed COL Vanderbleek, Commandant, USACMLCS, and COL Brooke, Deputy Post Commander, and gave Mr. Daniel, Post Safety Dir/RPO, a tour of the areas. SSG Truffa called LBG Army Depot and explained TS784 wipes would be late and got film results to hot cell environmental checks. Results indicate roof area of Hot Cell should be marked "Radiation Area."

MEMO FOR RECORD 4 Jun 73

SUBJ: Shipment to EA 4 Jun

1. Health Physics sent some items on the 4 Jun shipment, to wit:

5 drums and one vacuum cleaner
(three were heavy drums, 55 gal, est several hundred lb each)
(two were light drums, 55 gal, one with vac clnr parts)
(vac clnr was tank type, large(too big for drum))

2. This was a mil convoy shipment (342d Trans Co).

3. Shipment was sent to Mr Earl Wright, and Mr Jim Jones will receive it for him. They have both been called on this. It is going to B/5685.

4. Reason for this unplanned shipment was the actions taken during the close-out rad clearance inspection by AEHA.

C.J. WICKSTROM
MAJ, USMC
C, HP Div

9 May 1973

AJMGP-S-S

SUBJECT: Appointment of Radiological Protection Officer

Commanding General
Third United States Army
ATTN: AJAGL-M-M
Fort McPherson, Georgia 30330

1. Mr. Charlie U. Daniel, Jr., [redacted] has replaced Major Charles J. Wickstrom, as Radiological Protection Officer for Fort McClellan. At present there is no Alternate Radiological Protection Officer for the installation.

2. Mr. Daniel is the Safety Manager for Fort McClellan, telephone number AUTOVON 865-4723/5603. A resume of Mr. Daniel's training and experience is attached.

FOR THE COMMANDER:

3 Incl
1. Ft McCl Sp Order #92, Apmt of RPO
2. Resume of Tng & Exp
3. LO # 05-36, Revocation of LO # 06-35, 1972

LARRY D. LILLARD
Major, AGC
Adjutant General

ATSCH-HP

5 JUN 1973

SUBJECT: Letter of Appreciation

Commander
Special Troop Command
Fort McClellan, Alabama 36201

1. I deeply appreciate the commendable efforts and accomplishments of elements of your command acting in support of the close-out of the US Army Chemical Center and School; in particular, the work on the radiological decontamination plan.

2. My praise goes especially to D Company of the 46th Engineer Construction Battalion, in the 2d Chemical Battalion. This unit was tasked by the Post Engineer with the bulk of the effort on Engineer Work Order #2553, an open-ended job request involving over 60 specific, preplanned decontamination tasks, with work extending over a 5-month period. D Company remained responsive to both preplanned and short notice support requests involving use of crane with wrecking ball, carpentry, concrete pouring, jackhammer work, metal work with cutting torches, erection of signs and barriers, and replacement of bricks and asphalt tiles in permanent buildings.

3. The individuals in D Company who performed the above tasks deserve special recognition. They were:

SSG Edward A. Kincer	[redacted]	In charge
SP5 James C. Pace		Assistant
SP5 Jack E. Pletcher		Heavy Equipment Operator

The expertise and very professional manner of these men in performing in an outstanding fashion the wide variety of Engineer support functions named in the above paragraph are extremely impressive. In addition, they displayed a very positive, "can do" attitude throughout the support effort.

01 02 041630Z RR RR UUUU

NO

CDR USASTC FT MCCLELLAN AL //ATSCM-HP//

DA WASH DC //DALO-MAS-I//

INFO: CDR COXARC FT MONROE VA //ATLOG-MAT-EQ//

CDR APG ABERDEEN PG MD //AMXBR-XM-HP/USAEHA-RH//

UNCLAS

Subj: Notification of Transfer of Radioactive Material

A. Msg ATSCM-HP 301659Z Apr 73, subj: Disposition of Radioactive Material.

B. Ltr AJMGP-S-S 4 May 73, subj: Atomic Energy Commission License Application.

C. Msg ATSCM-HP 101312Z May 73, Sub: Disposition of Radioactive Material.

D. Msg DALO-MAS-I, No. 1834, 181920Z May 73, subj: Disposition of Radioactive Material.

1. All radioactive material other than residual contamination has been been transferred or disposed of by USACMLCS.

2. Request submissions in Ref A and B be considered as arranged by Ref C and D.

CHARLES J. WICKSTROM, MAJ, C, Hlth Phy
Div, USACMLCS, ATSCM-HP, 3937, 29May73

UNCLASSIFIED

02 02 047630Z

3. Radiological closeout survey has been completed by USAEHA and all areas have been found to be within acceptable limits except for areas of residual contamination designated in Ref B.

TWX 041630Z Jun 73, subj: Notification of transfer of RadioactiveMaterial

MFR: Required by DA before they will act on our requests for cancellation of AEC Licenses and application for residual contamination.

Charles Wickstrom HOLD UNTIL 4 JUN CONVOY GOES

CHARLES J. WICKSTROM, MAJ, C, Hlth Phy Div/29 May 73/kh/3937

APPROVED: Asst Comdt _____

ATSCM-HP
SUBJECT: Letter of Appreciation

4. My thanks to you, and please convey my special appreciation to the individuals named above for their outstanding efforts. It is a pleasure to serve in an Army where this type of professional performance is on display.

JACK VANDERBLEEK
Colonel, CmlC
Commandant

EMS
COG, A/C

Very fine letter - personal, specific, timely, etc. More letters, not only letters of appreciation, should be written in this style.

DEPARTMENT OF THE ARMY
Headquarters, US Army School/Training Center
Fort McClellan, Alabama 36201

FT MCCLELLAN REGULATION
NO. 385-8

4 June 1973

SAFETY

RESIDUAL RADIOLOGICAL CONTAMINATION SAFETY PROGRAM

1. PURPOSE: To prescribe the policies and procedures necessary to minimize the exposure of personnel to nuclear radiation contained in residual contamination and to insure periodic assessment of the residues.

2. SCOPE: This regulation is applicable to all personnel assigned or attached to Fort McClellan and have occasion to enter the area to the rear of building 3182.

3. OBJECTIVE: To prescribe standards and procedures necessary to insure that both recurring and non-recurring access to the area at the rear of building 3182 is limited, that awareness of the hazardous conditions are insured, that required maintenance is performed, that periodic assessment by both on and off post agencies is accomplished, and that proper advice is available in the event of an emergency involving the controlled area. (See attached map at inclosure 1.)

4. ORGANIZATION AND RESPONSIBILITIES: The Fort McClellan Radiological Protection Officer, appointed in accordance with AR 40-14, will be responsible in the name of the Installation Commander, for insuring that all provisions of this regulation are implemented. No personnel, other than those who work under the supervision of the Radiological Protection Officer, are specifically tasked in connection with this regulation, except that all personnel at Fort McClellan will abide by the decisions of the Radiological Protection Officer regarding matters involving the radioactive contamination, and will provide necessary support to the Radiological Protection Officer within their capabilities.

5. RADIATION SAFETY PROCEDURES:

a. The area located immediately behind building 3192 will continue to be fenced and will be a limited access area, with access controlled by the Fort McClellan Radiological Protection Officer. All personnel desiring entrance to this area will insure that the Radiological Protection Officer is informed of the details of their activities within the area and grants them permission to enter. This includes both recurring access, such as for maintenance of the area and building or classes conducted in building 3192, and non-recurring access, such as one-time tours. The Radiological Protection Officer will regularly schedule maintenance access to assure proper maintenance services.

b. The eight existing radiation warning signs will be maintained as

erected and instructions will be fully complied with at all times. (See inclosure 2.)

c. The control valves and switches for the liquid waste disposal apparatus will be operated only by personnel authorized by the Radiological Protection Officer. The access panels will be kept secured at all times.

d. The installation Radiological Protection Officer will conduct a radiation survey semi-annually with specific attention devoted to the containment of the hazard and observation of its decay. This survey will include beta-gamma survey meter monitoring, plus wipe tests. The Radiological Protection Officer will perform wipe tests on each of the three areas of contamination; five on the hot cell environs and one each on the liquid waste disposal apparatus and the well by building 3180, with three others to be taken at points of the Radiological Protection Officer's discretion, for a total of 10 wipe samples. These wipe samples will be performed as directed in NBS Handbook 92, Chapter 5, and will be mailed to US Army Environmental Hygiene Agency for analysis. Wipe tests will be mailed in accordance with paragraph 3-13, AR 55-55. A record will be maintained of all survey results.

e. Regularly scheduled visits by personnel of the US Army Environmental Hygiene Agency will be requested annually by the Radiological Protection Officer.

f. In the event of an emergency situation involving possible release or dispersion of the radioactive material, immediate contact will be made with the US Army Environmental Hygiene Agency authorities by the Radiological Protection Officer requesting advice, and assistance if necessary.

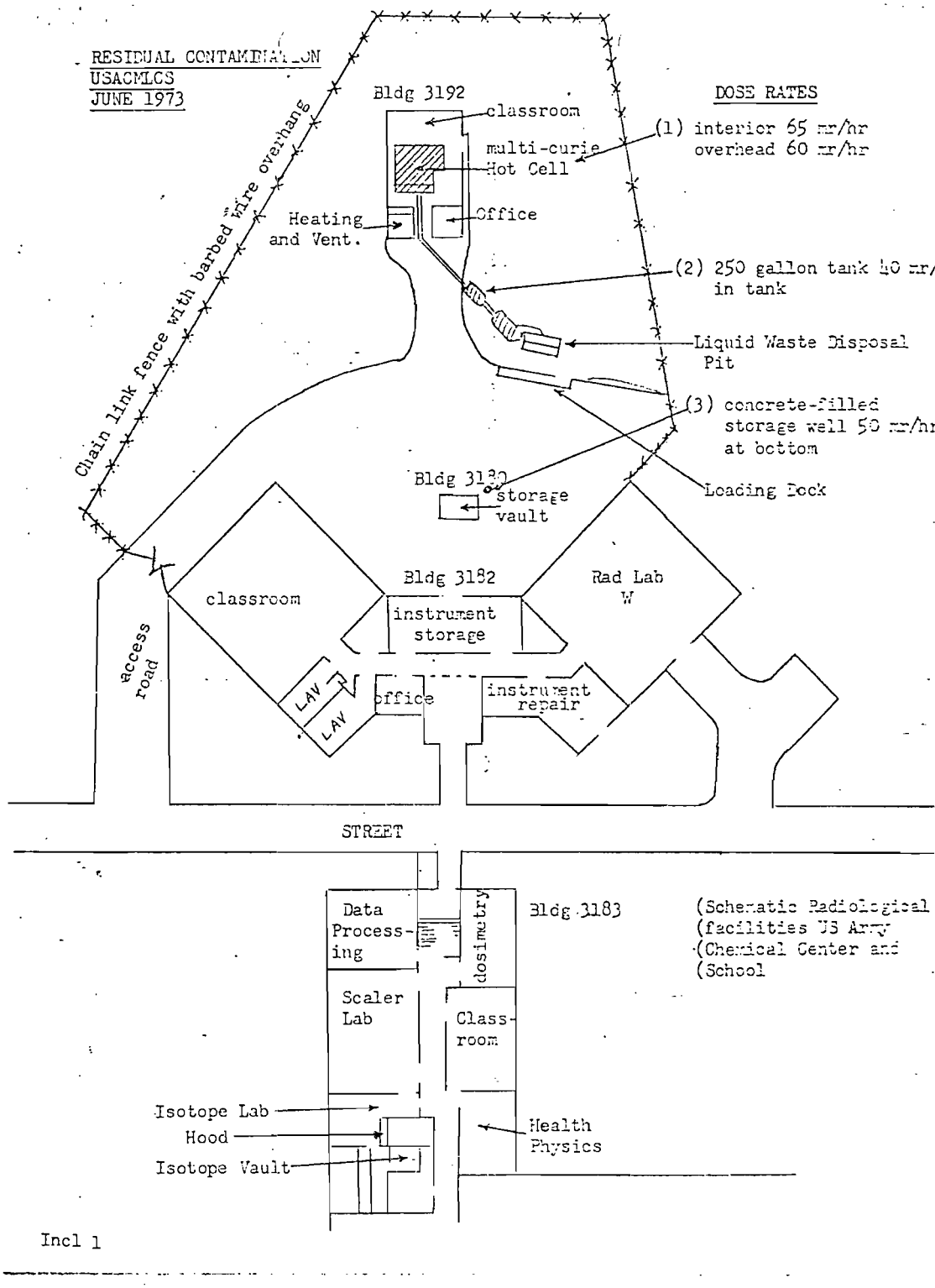
g. Recurring monitoring visits by US Army Environmental Hygiene Agency personnel may be made at more widely spaced intervals if so directed by US Army Environmental Hygiene Agency Health Physic supervisory personnel based on survey results.

h. Film badges will be drawn from and returned for processing to Noble Army Hospital for use by monitors or others who must work in close proximity to the residual contamination. Post Engineer building maintenance will not fall in this category, except in special cases. The Radiological Protection Officer will make the decision as to who is to be film badged.

6. REFERENCES:

a. AR 40-14, Control and Recording Procedures for Occupational Exposure to Ionizing Radiation, 29 Sep 66.

b. National Bureau of Standards Handbook 92, Safe Handling of Radioactive Materials, 9 Mar 64.


RESIDUAL CONTAMINATION
USACMLCS
JUNE 1973
Bldg 3192
classroom
multi-curie
Hot Cell
Heating
and Vent.
Office
Chain link fence with barbed wire overhang
DOSE RATES
(1) interior 65 mr/hr
overhead 60 mr/hr
(2) 250 gallon tank 40 mr/
in tank
Liquid Waste Disposal
Pit
(3) concrete-filled
storage well 50 mr/hr
at bottom
Loading Dock
Bldg 3180
storage
vault
Bldg 3182
classroom
instrument
storage
Rad Lab
W
access
road
LAV
LAV
office
instrument
repair
STREET
Data
Process-
ing
dosimetry
Bldg 3183
Scaler
Lab
Class-
room
Isotope Lab
Hood
Isotope Vault
Health
Physics
(Schematic Radiological
(facilities US Army
(Chemical Center and
(School

Incl 1

SIGNS

All signs IAW Fort McClellan Regulation 420-5 and AR 385-30, paragraph 3-1d, 3-4, 3-5, and Figure 3-1.

All eight (8) signs will be lettered at the TOP as follows:

CAUTION

RADIOACTIVE

MATERIAL

radiation trefoil
(magenta on yellow background)

letters in black on yellow background

Below this, on EACH sign, will be lettered explanatory material, shown below.

SIGN # 1)
EXTERIOR SIGNS - Letter on both sides.
Sign # 2)

BURIED RADIATION HAZARD

Tanks and connecting pipes contaminated with Cobalt-60 40 mr/hr in Feb 73 three to eleven feet below surface between signs.

NO DIGGING

Location:

One by 3192 driveway near building (on post)
One by waste valve pit on 3192 side (on post)

(Two Posts Required)

SIGN # 3 EXTERIOR SIGN - One Sided.

RADIATION HAZARD

Portions of interior of this half of building contaminated with Cobalt-60. Enter this door only with permission from Fort McClellan Radiological Protection Officer.
Phone: 4723/5603

Location:

Affix to North door, 3192
(metal door)

Incl 2

SIGN # 4 INTERIOR SIGN - One sided

WARNING

Do not remove or penetrate this barrier, as this would allow access to the hot cell portion of building, which contains radioactive contamination.

Location:

Affix to "false-wall" barrier to be placed in 3192. (Wood barrier)

SIGN # 5 INTERIOR SIGN - One sided

RADIATION HAZARD

Interior of hot cell is contaminated with Cobalt-60, 65 mr/hr maximum in Feb 73. Do Not Attempt to Enter.

Location:

Affix to hot cell 17-ton door, Building 3192. (Concrete 2 steel door)

SIGN # 6 INTERIOR SIGN - One sided

RADIATION HAZARD

Hot Cell behind this barrier and some overhead ducts are contaminated with Cobalt-60, 65 mr/hr maximum in Feb 73. Do not cross this barrier or work overhead without a radiation meter and approval from Fort McClellan Radiological Protection Officer.
Phone 4723/5603

Location:

Affix to barrier to be placed in hot cell end of building 3192. (Wood barrier)

SIGN # 7 INTERIOR SIGN - One sided

WARNING

In case of Emergency during duty hours call: Fort McClellan Safety Office - Phone 4723/5603
After Duty Hours Call:
Staff Duty Officer - Phone 3821

THIS IS BUILDING 3192

Location:

Affix to West door, 3192 (metal door)

MEMO FOR RECORD

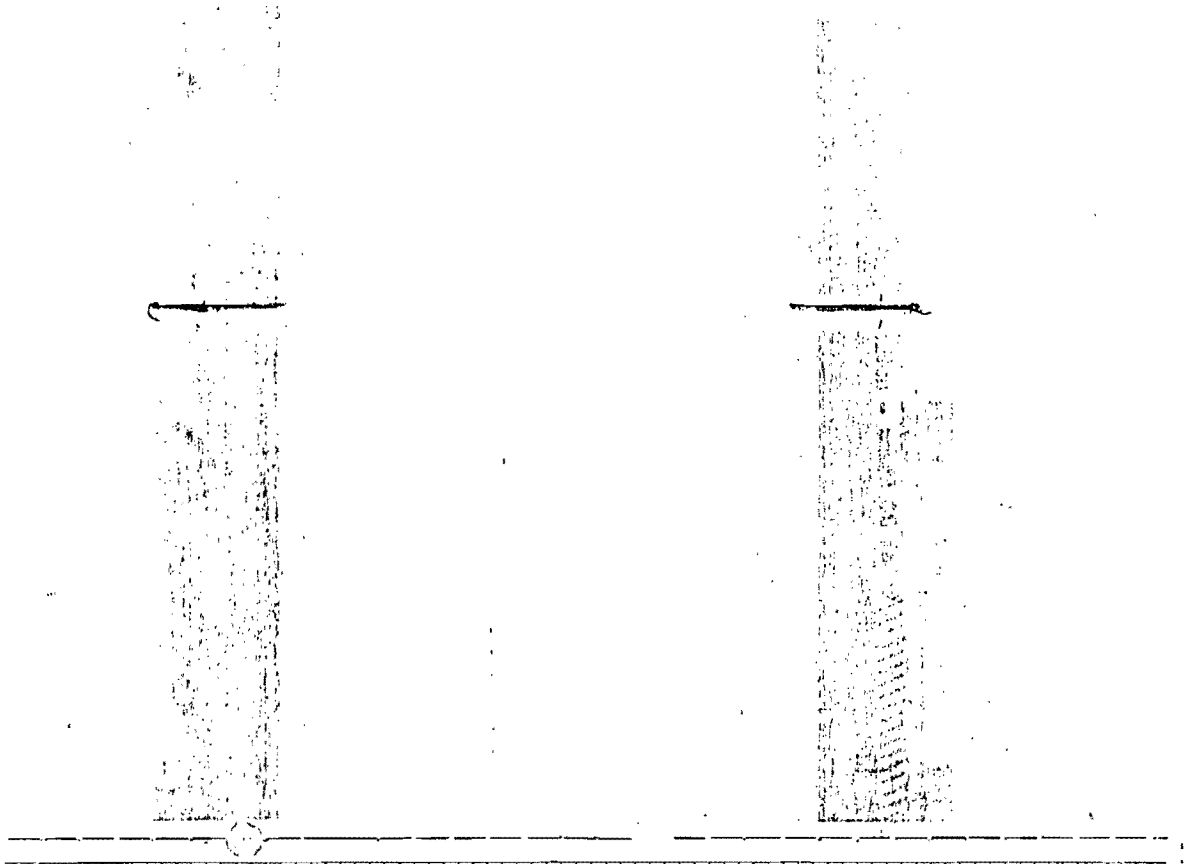
SUBJECT: Wipe Test Address 4 Jun 73

Regarding the residual contamination wipe tests as spelled out in the Ft McClellan Ragulation, the address to send them in to for analysis is:

USAEHA/LR
ATTN: Mr A. L. Jones
Edgewood Arsenal
Aberdeen Proving Ground, MD 21010

SSG Truffa did some research and discovered this address.

C. J. WICKSTROM
MAJ, CmlC
C, HP Div



UNIT	RI FROM	M&S	STOCK OR PART NUMBER FSC	FIIN	ADDT'L	UNIT OF ISSUE	QUANTITY	SERV	DOCUMENT NUMBER REQUISITIONER	DATE	SERIAL	SUFFIX	SERV	SUPPLEMENTARY ADDRESS	SIGNAL	FUND	DISTRIBUTION	PROJECT	PRIORITY	REQ'D DEL DATE	ADVICE	RJ	UNIT PRICE DOLLARS	CTS.
						EA	00001		W23GLK	3127	0402									134				

SHIPPED FROM	SHIP TO	MARK FOR	PROJECT	TOTAL PRICE DOLLARS	CTS.
Mission Spt Div, SMUEA-TS-MC Edgewood Arsenal Aberdeen Proving Ground, MD	B Consolidated Property Officer Attn: Dir of C of Log (ATSCM-OL) USACMLCS) Ft McClellan, Alabama 36201		D D-2690	E 1,000 00

WAREHOUSE LOCATION	TYPE OF CARGO	PACK	UNIT WEIGHT	UNIT CUBE	D I C	N M F C	FREIGHT RATE		DOCUMENT DATE	MAT. COND	QUANTITY		
	G	21010 H	I	J	K	L	M	N	127 O	S P	1 EA Q	R	S

SUBSTITUTE DATA ITEM ORIGINALLY REQUESTED	FREIGHT CLASSIFICATION NOMENCLATURE	
	U	V

ITEM NOMENCLATURE Shipping Container, (Empty)
for Radiac Calibrator AN/UDM-1A
Y

SELECTED BY AND DATE	TYPE OF CONTAINER(S)	TOTAL WEIGHT	RECEIVER'S USE	RECEIVED BY AND DATE	INSPECTED BY AND DATE
ELLER 5/-/73	1 CNT	3 250		4 WH Vin x 28	8 H
PACKED BY AND DATE	**NO. OF CONTAINERS**	**TOTAL CUBE**		**WAREHOUSED BY AND DATE**	**WAREHOUSE LOCATION**
4	5 1	6 27		9	10

MARKS:				
	BB	CC	DD	EE
FIRST DESTINATION ADDRESS		**DATE SHIPPED**		
		8 MAY 73 12	FF	GG

TRANSPORTATION CHARGEABLE TO	14 B/LADING, AWB, OR RECEIVER'S SIGNATURE (AND DATE)	15 RECEIVER'S DOCUMENT NUMBER
2132020 53-7230 P810000-2200 SD1003 AAA W6AB EVH01-732-73	Z 8646023	

DD FORM 1348-1, 1 JAN 64 EDITION OF 1 AUG 61 MAY BE USED DOD SINGLE LINE ITEM RELEASE/RECEIPT DOCUMENT

4-TUN

Form AEC-741
(7/72)
AECM 7401/10 CFR 30, 40, 70, and 150

Form Approved
Bureau of Budget
No. 38-R0114

U.S. ATOMIC ENERGY COMMISSION

NUCLEAR MATERIAL TRANSACTION REPORT

DOCUMENTATION (Only if document is classified Secret) Page of Pages Copy of Copies, Series

1. (1)	2. Transfer Code (2)	(3)	(4)	3. Transfer Series RIS From (5-7)	RIS To (9-11)	No. (13-18)	(19)	4. No. of Lines (20-21)
1				ZZY	ZZX	1		

6. Name and Address of Shipper — Lic. No. SNM-344
Department of the Army
US Army Chemical Center & School
Fort McClellan, AL 36201
Attention: ATSCH-HP

7. Name and Address of Receiver — Lic. No. SNM-9
Department of the Army
Ballistics Research Laboratory
Edgewood Arsenal, MD 21010
Attention: AMXBR-XM-HP

5. Nature of Transaction Complete if Applicable (22)
Transaction Type [C]
Transaction Type [ ]
Transaction Type [ ]

NO.	Distribution of Copies
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

8. Shipped for Account of — RIS (23-25)

9. Shipped to Account of — RIS (26-28)

10. Date of Transfer of Financial Responsibility — Mo. (29-30) Day (31-32) Yr. (33)

11. Material Type and Description: Pu239, solid, Pu239 metal, Eberline Instrument Corp. Not sealed, not irradiated.

12. Transfer Authority—SNM Draft Number, Reference, or Order Number (34-50)
SNM-9, Truck

13. SHIPPER'S DATA

A. Date Shipped — Mo. (70-71) 05 Day (72-73) 17 Yr. (74) 73
B. Form No. (75) 4
C. Signature of Authorized Official and Date Signed: Eugene M Simonson 4 Jun 73

Line No. (20-21) D	AEC Project Number and Identification (22-31) E	Material Type (32-33) F	Composition Code (34-36) G	Owner Code (37) H	Use Code (38-39) I	Gross Weight J	Net Weight K	Element Weight (40-50) L	Weight % Isotope (51-54) M	Isotope Weight (55-65) N	Limits of Error Element (66-70) O	Limits of Error Isotope (71-75) P
		50	368	B		85 lbs	64 lbs	0(315ug)	00.75	0(315ug)		

14. RECEIVER'S DATA

A. Date Received — Mo. (70-71) Day (72-73) Yr. (74)
B. Form No. (75) 4
C. Signature of Authorized Official and Date Signed

Line No. (20-21) D	AEC Project Number and Identification (22-31) E	Material Type (32-33) F	Composition Code (34-36) G	Owner Code (37) H	Use Code (38-39) I	Gross Weight J	Net Weight K	Element Weight (40-50) L	Weight % Isotope (51-54) M	Isotope Weight (55-65) N	Limits of Error Element (66-70) O	Limits of Error Isotope (71-75) P

Form AEC-741
(7/72)
AECM 7401/10 CFR 30, 40, 70, and 150

12 JUN
Form Approved
Bureau of Budget
No. 38-R0114

U.S. ATOMIC ENERGY COMMISSION

NUCLEAR MATERIAL TRANSACTION REPORT

DOCUMENTATION (Only if document is classified Secret)

Page of Pages Copy of Copies, Series

1. (1)	2. Transfer Code (2)	(3)	(4)	3. Transfer Series RIS From (5-7)	RIS To (9-11)	No. (13-18)	(19)	4. No. of Lines (20-21)
1				ZZY	ZZX	2		

6. Name and Address of Shipper — Lic. No.

Department of the Army
US Army Chemical Center & School
Fort McClellan, AL 36201
Attention: ATSCM-HP

7. Name and Address of Receiver — Lic. No.

Department of the Army
Ballistics Research Laboratory
Edgewood Arsenal, MD 21010
Attention: AMXBR-XM-HP

5. Nature of Transaction Complete if Applicable (22)

Transaction Type [B]
Transaction Type [ ]
Transaction Type [ ]

NO.	Distribution of Copies
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

8. Shipped for Account of — RIS (23-25)

SAME

9. Shipped to Account of — RIS (26-28)

SAME

10. Date of Transfer of Financial Responsibility — Mo. (29-30) | Day (31-32) | Yr. (33)

11. Material Type and Description U-233 deposited on 450 SS plates as oxide, not sealed, not irradiated.

12. Transfer Authority—SNM Draft Number, Reference, or Order Number (34-50)

SNM-9, truck

13. SHIPPER'S DATA

A. Date Shipped — Mo. (70-71) 05 | Day (72-73) 17 | Yr. (74) 73

B. Form No. (75) 4

C. Signature of Authorized Official and Date Signed — 12 Jan 73

Line No. (20-21) D	AEC Project Number and Identification (22-31) E	Material Type (32-33) F	Composition Code (34-36) G	Owner Code (37) H	Use Code (38-39) I	Gross Weight J	Net Weight K	Element Weight (40-50) L	Weight % Isotope (51-54) M	Isotope Weight (55-65) N	Limits of Error Element (66-70) O	Limits of Error Isotope (71-75) P
	Order No.	70	343	B		269 lbs	242 lbs	0 (25 mg)	0	0 (25 mg)		
	Nc-616											

14. RECEIVER'S DATA

A. Date Received — Mo. (70-71) | Day (72-73) | Yr. (74)

B. Form No. (75) 4

C. Signature of Authorized Official and Date Signed

Line No. (20-21) D	AEC Project Number and Identification (22-31) E	Material Type (32-33) F	Composition Code (34-36) G	Owner Code (37) H	Use Code (38-39) I	Gross Weight J	Net Weight K	Element Weight (40-50) L	Weight % Isotope (51-54) M	Isotope Weight (55-65) N	Limits of Error Element (66-70) O	Limits of Error Isotope (71-75) P

ATSCM-HP
Dir, Ofc of Log

Bromine Pad Items
C, Health Phy Div

13 Jun 73
MAJ Wickstrom/kh/3937

1. On 22 May 73, the APC and 3/4-ton truck were moved from the Bromine Pad to Range by the 46th Eng for use as targets (lateral transfer to Range Officer, DPTSEC).

2. On 23 May 73, the Radar Set and Airframe were moved from the Bromine Pad to Range 51 by the 46th Eng for use as targets (lateral transfer to Range Officer, DPTSE

CHARLES J. WICKSTROM
MAJ, CmlC
Chief, Health Physics Division

MEMO FOR RECORD

13 JUN 73

SUBJECT: AN/UDM-1A RADIAC CALIBRATOR Shipment

1. Fonecon to Mrs Anderson of Post Transp this date yields the following information:

   a. the AN/UDM-1A will go out today or at the latest tomorrow

   b. the GBL number is H 0 865547
      dated 30 May
      carrier Tri State Motor Transit Co

2. Although this item was picked up by Post Trans from CML School on 31 May it has not gone out yet, but is supposed to very soon, so this should work out OK.

C.J.WICKSTROM
MAJ, CmlC
C, HE Div

CONTAINER TALLY → 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

REQUISITION AND INVOICE/SHIPPING DOCUMENT

SHEET NO.	NO. OF SHEETS	5. REQUISITION DATE	6. REQUISITION NUMBER
			N62591-3137-8003

1. FROM
N62591 NAVAL TRAINING UNIT, USACMLCS, FORT McCLELLAN ALA. 36201

7. DATE MATERIEL REQUIRED: 8. PRIORITY:

9. AUTHORITY OR PURPOSE
COMNAVELECSYSCOM WASH DC MSG 071657Z MAY 73

2. RECEIVING OFFICER
NAVAL ORDNANCE LABORATORY WHITE OAK
SILVER SPRING, MD 20910

10. SIGNATURE: 11a. VOUCHER NUMBER AND DATE:

3. TO - MARK FOR: 12. DATE SHIPPED: b.

13. MODE OF SHIPMENT: 14. BILL OF LADING NUMBER:

15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO.

4. APPROPRIATION SYMBOL AND SUBHEAD	OBJECT CLASS	EXPENDITURE ACCOUNT (From)	EXPENDITURE ACCOUNT (To)	CHARGEABLE ACTIVITY	BUREAU CONTROL ACTIVITY NO.	BUREAU CONTROL NO.	AMOUNT
17X3980.2339	022			73001 23 2D N198	98003		

FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES (b)	UNIT OF ISSUE (c)	QUANTITY REQUESTED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NOS. (g)	UNIT PRICE (h)	TOTAL COST (i)
AN/UDM-1A RADIC CALIBRATOR, INCLUDES RADIOACTIVE SOURCE CESIUM 137 NAVY ID #62591653106	EA	1				$2,350.00	$2,350.00

See attached inclosure.

"This is to certify that the above named articles are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

CHARLES J. WICHSEROM
MAJ, CmlC
C, Health Physics Division

EARLY SHIPMENT REQUESTED (PRIORITY 2)

JACK VANDERBLEEK
COL, CmlC
COMMANDANT

ADDRESSEE PLEASE SIGN AND RETURN ONE COPY

18. TRANSPORTATION VIA MATS
* MSTS CHARGEABLE TO

17. SPECIAL HANDLING

ISSUED BY	TOTAL CONTAINERS	TYPE CONTAINER	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE
	1		AN/UDM-1A RADIOACTIVE MATERIAL	1150	38
CHECKED BY	5		ATTACHMENTS		
PACKED BY					
			← TOTAL →		

19. RECEIPT

CONTAINERS RECEIVED EXCEPT AS NOTED	DATE	BY	SHEET TOTAL
QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	BY	GRAND TOTAL
POSTED	DATE	BY	20. RECEIVER'S VOUCHER NO.

FORM 1 MAR 58 1149 (9-PT) 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

REPLACES EDITION OF 1 MAY 58 WHICH MAY BE USED

ORIGINAL

| | | |

RADIOACTIVE MATERIALS MOVEMENT
(XX) SHIPMENT ( ) RECEIPT

For use of this form, see AR 55-55; the proponent agency is Office of the Deputy Chief of Staff for Logistics

(See instructions on reverse)

DETAILS OF SHIPMENT

1. TO: (Include ZIP Code) N60921
Receiving Officer, Naval Ordnance Laboratory, White Oak, M/F DONCASE CODE 223
Silver Spring, MD 20910

2. FROM: (Include ZIP Code)
Health Physics Division
USACMLCS
Fort McClellan, AL 36201

3. SHIPMENT NUMBER

4. SECURITY CLASSIFICATION
UNCLASSIFIED

5. MODE OF SHIPMENT (i.e., Railway Express)

6. COMMODITY DESCRIPTION			7. RADIOACTIVITY		
CONTAINERS a	NUMBER OF ITEMS b	NOMENCLATURE c	QUANTITY, ISOTOPE AND FORM d	8. LEVEL AT SURFACE	8. LEVEL AT ONE METER
1	1	AN/UDM-1A Radiac Calibrator SN10	91Ci, Cs-137, Special	.8mr/hr	.2mr/hr

SHIPMENT
THE ABOVE DESCRIBED ARTICLES ARE PROPERLY CLASSIFIED, PACKAGED, MARKED, AND LABELED, THE ARTICLES ARE IN PROPER CONDITION FOR TRANSPORTATION AND THE SPREADABLE ACTIVITY AND DOSE RATES ARE WITHIN THE SPECIFIED LIMITS, AS PRESCRIBED BY APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION AND DEPARTMENT OF THE ARMY.

8. REMARKS
Source exceeds type A quantity and is packaged in a Type B container.

9. SPECIAL PRECAUTIONS
Open container only according to instructions on shipping container -- ship container back to: Commander
Edgewood Arsenal
ATTN: SMUEA-PA-T (Mr. Sciclitico)
Edgewood Arsenal, MD 21010

10. SIGNATURE OF RADIATION SAFETY OFFICER (Shipment) OR OTHER AUTHORIZED OFFICIAL (Receipt)
CHARLES J. WICKSTROM, MAJ, CmlC, C, Health Physics Div — DATE: 25 May

11. SIGNATURE OF TRANSPORTATION OFFICER (Shipment) OR CARRIER (Receipt) — GRADE AND TITLE — DATE

12. ORGANIZATION

DA FORM 2791-R, 1 Oct 70 REPLACES DA FORM 2791, 1 JUN 58, WHICH IS OBSOLETE. (Paper used: A4 or 8½" x 11" image area: 7.4" x 10")

Front

Figure 3-7. DA Form 2791-R.

RECEIPT
THE ARTICLES DESCRIBED ON REVERSE WERE RECEIVED IN PROPER TRANSPORTATION CONDITION. THE SURFACE ACTIVITY AND DOSE RATES ARE WITHIN THE SPECIFIED LIMITS AS PRESCRIBED BY APPLICABLE REGULATION OF THE DEPARTMENT OF TRANSPORTATION AND THE DEPARTMENT OF THE ARMY EXCEPT AS NOTED BELOW.

12. REMARKS

14. SIGNATURE OF RADIATION PROTECTION OFFICER *(Receiving Organization)* | DATE

15. SIGNATURE OF CONSIGNEE | GRADE AND TITLE | DATE

16. ORGANIZATION

INSTRUCTIONS

GENERAL

Forms will be used to identify radioactive shipments originated by Army elements for protection of shipping, transporting, and receiving personnel and to assure compliance with DA and other regulations. Receiving organizations will use the form to record receipt of radioactive shipments from Army and non-Army elements and to indicate any necessary radiation protection action. Certification by the radiation protection officer indicates that all necessary radiation surveys and smear tests were made with appropriate radiation/contamination measuring devices. See also paragraph 3-5, AR 55-55. Shipping organizations will complete three copies; retain one for record purposes, and deliver one to the carrier who will deliver one copy to the receiving organization. When forms are originated by receiving organizations, sufficient copies will be prepared for record purposes and use in follow-up action as necessary.

EXPLANATION OF FORM

1. Items 1, 2, 3, 4, 5. Self-explanatory.

2. Item 6a. Indicate number and kind of packages and package markings, if marked.

3. Item 6b. Indicate number of items contained in package(s) shown in column 6a. Each type of item should be listed separately.

4. Item 6c. Enter sufficient information to identify the item(s). Include Federal Stock Number, if any.

5. Item 7a. Show total number of curies, millicuries, or microcuries contained in package(s) in Column 6a, and, if available, the number of curies, millicuries or microcuries contained in each item. Indicate chemical element and mass number of radioisotopes and whether liquid, solid, or gaseous, and sealed or unsealed.

6. Item 7b. Indicate radiation levels in mR/hr.

7. Item 8. Self-explanatory.

8. Item 9. List special precaution necessary in handling, transporting and storing. Where shipments are at variance with or are exempted from portions of the regulations (i.e., labeling, packaging, container specification), include a statement to so indicate and list specific authority for the variance or exemption.

9. Items 10, 11, 12. Self-explanatory.

10. Item 13. Record exceptions to receipt statement and follow-up actions taken. If none, so indicate.

11. Items 14, 15, 16. Self-explanatory.

2

Back

Figure 3-7—Continued.

SPECIAL INSTRUCTIONS FOR MOTOR VEHICLE DRIVERS

DATE

TO: *(Carrier's Name and Trailer Number)*

FROM: *(Station Issuing Instructions)*
Fort McClellan, AL 36201

BILL OF LADING NUMBER

THIS TRUCK IS LOADED WITH *(Commodity Description)*
Radioactive Materials, N. O. S.

PLACARDS *(Specified by ICC Reg.)*
[redacted] None

IN CASE OF FIRE

1. If any part of the truck outside of actual contents catches fire, take truck to a clear or uninhabited area, if practicable, and/or attempt to put fire out immediately with hand extinguishers or other available means. If practicable, ask someone to notify the fire department. Call to the attention of fire or police personnel at the scene of the fire the information on this form.
2. Fires may be fought until the flames reach the cargo, at which time firemen and other personnel should be withdrawn to a safe distance, as noted in 5 below.
3. If in convoy, other trucks proceed to safe distance.
4. Water may be used on this cargo [XX] Yes [ ] No *(See Other Specific Precautions below)*
5. Firemen should not approach closer than 30 feet* from fire when the fire has reached the cargo, except for Group VI. *(See Other Specific Precautions below)*
6. Public should not approach closer than 300 feet* from fire.
7. As soon as practical, notify the nearest military installation.

IN CASE OF ACCIDENT

1. Set brake and block vehicle to prevent movement.
2. Post flags by day, and red electric lanterns or reflecto by night, warning traffic approaching from each direction.
3. Call for ambulance, if necessary.
4. Notify nearest police.
5. Notify nearest military installation if cargo is damaged

NOTIFY: *(By phone or wire as soon as possible)*
MAJ Wickstrom 205-238-3937/3141

IN CASE OF BREAKDOWN

1. Do not attempt to tow loaded vehicle.
2. Post flags by day and red electric lanterns or reflector by night, warning traffic approaching from each direction.

GENERAL PRECAUTIONS

1. While operating over public roads, keep at least 300 feet from trucks loaded with explosives or other dangerous articles; a greater minimum distance must be maintained if required by state or municipal regulations.
2. Protect the public from the hazards of the cargo.
3. Do not allow smoking or use of matches or lighters in or near the vehicle.
4. Obey all state and local traffic regulations.
5. Do not exceed posted speed limits.
6. Stop at all railroad crossings
7. Use designated routes. Wherever possible, avoid congested residential or business areas.
8. Do not permit unauthorized persons to ride on vehicles.
9. At other than carrier rest stops or interchange points, select safe parking space at stopping locations designated by the carrier. Vehicles carrying explosives should not group together at these stopping locations.
10. Deliver shipment to receiving installation during normal working hours and only to persons authorized to accept it.

OTHER SPECIFIC PRECAUTIONS

Water may be used on a cargo fire, avoid high pressure water; if possible, use a "fog". If available in quantity, CO_2 is preferred.---Once fire reaches cargo, fire should be fought from up wind; all personnel should remain up wind and away from smoke.

These instructions must be transferred to each subsequent driver for turn-in at final destination. If more than 3 drivers are involved, the additional signatures should be made on an extra sheet and attached hereto.

SIGNATURE OF SHIPPER REPRESENTATIVE
Mady McWhorter

SIGNATURE OF FIRST DRIVER

SIGNATURE OF SECOND DRIVER

SIGNATURE OF THIRD DRIVER

* *The distances shown are minimum; greater distances should be used whenever possible.*

DD FORM 1 JUN 66 836 REPLACES EDITION OF 1 MAR 64 WHICH WILL BE USED.

REQUEST FOR SHIPMENT

1. TO: Dir of Tech Spt Attn: SMUEA-TS-M Edgewood Arsenal, MD 21010	5. DATE: 3 May 1973
2. FROM: Cdr, Edgewood Arsenal Attn: SMUEA-PA-TM Edgewood Arsenal, MD 21010	6. PRIORITY:
3. SHIPPING ADDRESS: Cdr, Ft McClellan, AL Attn: Dir of C of Log (ATSC4-OL) USACMLCS Ft McClellan, AL 36201 DOD ADDRESS CODE:	7. DEST DATE: 14 May 1973
4. FUNDS & METHOD OF TRANS: Accounting Classification: 2132020 53-7230 PS10000-2200 S01083 APC W6AB BVN01-732-73	8. LOCATION OF PROP: PA Dir BLDG: 5106

9. ITEM DESCRIPTION:	UNIT	QTY	UNIT COST
Shipping Container (Empty) for radiac calibrator AN/UDM-1A. The cylindrical container is 28 inches high, 48 inches in diameter and is constructed of 1 inch plywood laminates.	ea	1	1000 e

10. UNIT WT	TOTAL WT	UNIT CUBE	TOTAL CUBE
850 lbs.	850 lbs.	37.3 cu ft	37.3 cu ft

11. REMARKS:

12. TYPED NAME, TEL EXT OF REQUESTER	13. TYPED NAME, TEL EXT OF ACTIVITY SUPPLY OFFICER
A. N. SIEKLITICO Chief, Prod Assur Test Div Ext 4305	GEORGE W. KYLE Actv Sup Off Ext 2767
12a. SIGNATURE:	13a. SIGNATURE:

SMUEA Form 1488
Rev 15 Jun 68

Replaces SMUEA Form 1488, 3 Jan 66, which is obsolete.

INS

Shipping request to be prepared in dupl completed.

BLOCK 1. Complete address.

BLOCK 2. Complete address.

BLOCK 3. Enter complete address (includi shipping address code for military install Include Property Administrator and address

BLOCK 4. Cost Center, work order, X.O. and preferred method of transportation.

BLOCK 5. Current date.

BLOCK 6. Uniform Material Movement and Issue number, (See AR 725-50).

BLOCK 7. Date of arrival at destination.

BLOCK 8. Present location of property (must b

BLOCK 9. Complete item description, unit, quan (continue on separate plain sheet, if necessary)

BLOCK 10. Enter the unit weight, total weight, u applicable.

BLOCK 11. Remarks. Indicate authority for shipme pursuant to a contractual requirement), justificat expedited shipment, return of loan, return of reje ment, etc., as applicable.

BLOCK 12. Enter name, telephone extension of person

BLOCK 12a. Self-explanatory.

BLOCK 13. Enter name, telephone extension of activi

BLOCK 13a. Self-explanatory.

6 GBL 3580
1103-209-08

U.S. GOVERNMENT BILL OF LADING
MEMORANDUM COPY

B/L NO. H-0,865,547

TRANSPORTATION COMPANY
TENDERED TO → TRI STATE MOTOR TRANSIT COMPANY T746

TRAFFIC CONTROL NO. MXX1610M

STOP THIS CAR OR TRUCK AT

FOR

CAR INITIALS AND NO. | KIND: IRON

TRUCK NO. Tractor 5022

IMPORTANT
When the original of this bill of lading is surrendered to the initial carrier a memorandum copy thereof so certified must be forwarded to the consignee immediately.

CAR-TRUCK LGTH. FT., INS.† ORDERED	FURNISHED	MARKED CAPACITY† ORDERED	FURNISHED	DATE FURNISHED†	DATE B/L ISSUE
				13June	30May73

† FURNISH THIS INFORMATION IN CASE OF CARLOAD OR TRUCKLOAD SHIPMENTS ONLY.

RECEIVED BY THE TRANSPORTATION COMPANY NAMED ABOVE, SUBJECT TO CONDITIONS NAMED ON THE REVERSE OF THE ORIGINAL BILL OF LADING, THE PROPERTY HEREINAFTER DESCRIBED, IN APPARENT GOOD ORDER AND CONDITION (CONTENTS AND VALUE UNKNOWN), TO BE FORWARDED TO DESTINATION BY THE SAID COMPANY AND CONNECTING LINES, THERE TO BE DELIVERED IN LIKE GOOD ORDER AND CONDITION TO SAID CONSIGNEE.

FROM
(SHIPPING POINT) → Ft McClellan,Al.

FULL NAME OF SHIPPER
A31QLD

Transportation Officer
Ft McClellan,Al 36201

CONSIGNEE (NAME AND MAILING ADDRESS)
Receiving Officer
Naval Ord Lab White Oak,

MARKS
Account No.62591 REF GKSO 904503-1

YELLOW LABEL——APPLIED

DESTINATION
Silver Spring, Md 20910 20910-22ft

VIA (ROUTE SHIPMENT ONLY WHEN SOME SUBSTANTIAL INTEREST OF THE GOVERNMENT IS SERVED THEREBY)

CHARGES TO BE BILLED TO (DEPARTMENT OR ESTABLISHMENT, BUREAU OR SERVICE AND LOCATI
Navy Finance Ctr,
Wash,DC 20390
FINANCE CENTER, TOIV
U.S. NAVY
INDIANAPOLIS, INDIANA 46249

SEAL NOS.

FOR CARRIER'S USE ONLY
WAYBILL NO. | FREIGHT BILL NO.

APPROPRIATION CHARGEABLE
N193 93003 17x3980.2339 022 73001 23 2D

APPLIED BY:

CONTRACTORS WILL RETURN UNUSED OR CANCELED BILLS OF LADING TO GOVERNMENT OFFICE FROM WHICH RECEIVED.

PACKAGES NO.	KIND	DESCRIPTION OF ARTICLES (USE CARRIERS' CLASSIFICATION OR TARIFF DESCRIPTION IF POSSIBLE, OTHERWISE A CLEAR NONTECHNICAL DESCRIPTION)	NUMBERS ON PACKAGES	Actual WEIGHTS*
1	Cs	TCN: N62591-3137-3003 [illegible] Radioactive Material,(AF/[illegible]-1A [illegible] CALIFORNIA, INCURS. SECTION 137 [illegible] 2922.6533.5.9101,CA 137,3E,NRFP; Level At Surf.:[illegible]mr/hr at One Met.:[illegible]mr/hr;	IX 38	1450
2 thru 5	Bx	Components	42XES 80 44	40256X 2501 1932 AS 2500
		TOTALS		
		LOADING PERFORMED BY Ft McClellan,Al UNLOADING PERFORMED BY _____."		
		SHIPPER TO LOAD AND CONSIGNEE TO UNLOAD"		
		CARRIER WAS CONTACTED on 30 May for Services		
		TENDERED AS ONE DECHIDARY		

"This is to certify that the above named articles are properly classified,described,packaged,marked and labeled and are in proper condition for transportation according to the applicable reg of the DOT.

IF THIS SHIPMENT FULLY LOADS THE CAR OR TRUCK USED, CHECK ☐ YES

13.22 min 2500
Comm rate
$330.50

TARIFF OR SPECIAL RATE AUTHORITIES (C/L-T/L OR VOL. ONLY)
Tri State 1074 Commodity Rate

CARRIER FURNISHED ☒ PICK UP— ☐ TRAP CAR—
SERVICE AT ORIGIN INITIALS OF SHIPPER'S AGENT fa

NAME OF TRANSPORTATION COMPANY → TRI STATE MOTOR TRANSIT COMPANY T746

DATE OF RECEIPT OF SHIPMENT
30 May 73

INITIAL CARRIER'S AGENT, BY SIGNATURE BELOW, CERTIFIES HE RECEIVED THE ORIGINAL BILL OF LADING.
☐ YES (INDICATE BY CHECK)

SIGNATURE OF AGENT [signature] PER [signature]

CERTIFICATE OF ISSUING OFFICER

I CERTIFY THAT THIS SHIPMENT IS MADE PURSUANT TO THE TERMS OF CONTRACT OR PURCHASE ORDER NO. [illegible] DATED [illegible] TCN [illegible], OR OTHER AUTHORITY FOR SHIPMENT, F.O.B. POINT NAMED IN CONTRACT [illegible] Ft McClellan,Al

ISSUING OFFICE Trans. O. Ft McClellan,Al.

SIGNATURE OF ISSUING OFFICER [signature] TA FOR

DATE 30May73 TITLE WARDELL SMITH,CPT,TC,T.O.

MEMORANDUM COPY

9

☐ CARRIER FURNISHED ☐ DELIVERY— ☐ TRAP C
SERVICE AT DESTINATION.

*SHOW ALSO CUBIC MEASUREMENTS FOR SHIPMENTS VIA AIR, TRUCK OR WATER CARRIER, IN CASES WHERE REQUIRED.

SHIPPING CONTAINER TALLY → 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

REQUISITION AND INVOICE/SHIPPING DOCUMENT

SHEET NO.	NO. OF SHEETS	5. REQUISITION DATE	6. REQUISITION NUMBER
			N62591-3137-8003

1. FROM: N62591 NAVAL TRAINING UNIT, USACMLCS, FORT McCLELLAN ALA. 36201

7. DATE MATERIEL REQUIRED:

8. PRIORITY:

2. TO: RECEIVING OFFICER
NAVAL ORDNANCE LABORATORY WHITE OAK
SILVER SPRING, MD 20910

9. AUTHORITY OR PURPOSE: COMNAVELECSYSCOM WASH DC MSO 0716572 MAY 73

10. SIGNATURE:

11a. VOUCHER NUMBER AND DATE:

3. SHIP TO - MARK FOR:

12. DATE SHIPPED: 13 June 73

b.

13. MODE OF SHIPMENT:

14. BILL OF LADING NUMBER: Tri State Motor Transit Co. H 0,865,547

15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO.: NA

4. APPROPRIATION SYMBOL AND SUBHEAD	OBJECT CLASS	EXPENDITURE ACCOUNT (From)	EXPENDITURE ACCOUNT (To)	CHARGEABLE ACTIVITY	BUREAU CONTROL ACTIVITY NO.	BUREAU CONTROL NO.	AMOUNT
17X3980.2339	022			73001 23 2D M198 98003			

ITEM NO. (a)	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIAL AND/OR SERVICES (b)	UNIT OF ISSUE (c)	QUANTITY REQUESTED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NOS. (g)	UNIT PRICE (h)	TOTAL COST (i)
1.	AN/UDM-1A RADIC CALIBRATOR, INCLUDES RADIOACTIVE SOURCE CESIUM 137 NAVY ID #62591653106	EA	1				$2,350.00	$2,350.00

See attached inclosure.
"This is to certify that the above named articles are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

EARLY SHIPMENT REQUESTED (PRIORITY

CHARLES J. WICHSTROM
MAJ, CmlC
C, Health Physics Division

JACK VANDERBLEEK
COL, CmlC
COMMANDANT

ADDRESSEE PLEASE SIGN AND RETURN ONE COPY

16. TRANSPORTATION VIA MATS OR MSTS CHARGEABLE TO:

17. SPECIAL HANDLING:

18. RECAPITULATION OF SHIPMENT	TOTAL CONTAINERS	TYPE CONTAINER	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE
ISSUED BY	1		AN/UDM-1A RADIOACTIVE MATERIAL	1450	38
CHECKED BY	5		ATTACHMENTS	661	56
PACKED BY					

(NOTE BX 4 of 5 TO FOLLOW ON 2 GOVT BL)

19. RECEIPT		DATE	BY	SHEET TOTAL
	CONTAINERS RECEIVED EXCEPT AS NOTED			
	QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	BY	GRAND TOTAL
	POSTED	DATE	BY	20. RECEIVER'S VOUCHER NO.

DD FORM 1 MAR 68 1149 (8-PT) 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

AR 55-55 WICKSTROM CE470.1 Feb 71 12 November 1

RADIOACTIVE MATERIALS MOVEMENT
(XX) SHIPMENT [ ] RECEIPT

For use of this form, see AR 55-55; the proponent agency is Office of the Deputy Chief of Staff for Logistics

DETAILS OF SHIPMENT

1. TO: (Include ZIP Code) N60921
Receiving Officer, Naval Ordnance Laboratory, White Oak, M/F DONCASE CODE 223
Silver Spring, MD 20910

2. FROM: (Include ZIP Code)
Health Physics Division
USACMLCS
Fort McClellan, AL 36201

3. SHIPMENT NUMBER

4. SECURITY CLASSIFICATION
UNCLASSIFIED

5. MODE OF SHIPMENT (i.e., Railway Express)

6. COMMODITY DESCRIPTION

CONTAINERS a	NUMBER OF ITEMS b	NOMENCLATURE c	7. RADIOACTIVITY QUANTITY, ISOTOPE AND FORM d	8. LEVEL AT SURFACE	8. LEVEL AT ONE METER
1	1	AN/UDM-1A Radiac Calibrator SN10	91Ci, Cs-137, Special	.8mr/hr	.2mr/hr

SHIPMENT
THE ABOVE DESCRIBED ARTICLES ARE PROPERLY CLASSIFIED, PACKAGED, MARKED, AND LABELED. THE ARTICLES ARE IN PROPER CONDITION FOR TRANSPORTATION AND THE SPREADABLE ACTIVITY AND DOSE RATES ARE WITHIN THE SPECIFIED LIMITS, AS PRESCRIBED BY APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION AND DEPARTMENT OF THE ARMY.

9. REMARKS
Source exceeds type A quantity and is packaged in a Type B container.

10. SPECIAL PRECAUTIONS
Open container only according to instructions on shipping container -- ship container back to: Commander
Edgewood Arsenal
ATTN: SMUEA-PA-T (Mr. Sulitico)
Edgewood Arsenal, MD 21010

11. SIGNATURE OF RADIATION SAFETY OFFICER
CHARLES J. WICKSTROM, MAJ, CmlC, C, Health Physics Div — DATE 25 May

12. SIGNATURE OF TRANSPORTATION OFFICER (Shipping) — NAME AND TITLE — DATE
13. ORGANIZATION

DA FORM 2791-R, 1 Oct 70 REPLACES DA Form 2791, 1 Jun 66, which is obsolete. (Paper size, 8" x 10½", image area, 7.4"x10")

Front

Figure 5-7. DA Form 2791-R.

RCA EXPRESS LVC3332

DESTINATION SILVER SPRING, MD 20910 DDD 22 June 73	MARKS AF:Account No.62591 REF SHSO 904503-1 RE GBL H 0,865,547 contains boxes 1,2,3 & 5 +
CONSIGNEE (Name and Mailing Address) Receiving Officer Naval Ord Lab White Oak,	F.O.B. POINT NAMED IN CONTRACT Anniston,Al
FROM (Shipping Point) Anniston,Al	CHARGES TO BE BILLED TO (DEPARTMENT OR ESTABLISHMENT, BUREAU OR SERVICE AND LOCATION) FINANCE CENTER (DIV INDIANAPOLIS, INDIANA) Navy Finance Center Washington ,DC 20390
FULL NAME OF SHIPPER Transportation Officer (A31QLU) Ft McClellan, Al 36201	APPROPRIATION CHARGEABLE 17X3930.2339 022 73001 23 2D N198 98003

PACKAGES NO.	PACKAGES KIND	DESCRIPTION OF ARTICLES (Use Carriers' Classification or Tariff Description if Possible, Otherwise a Clear Nontechnical Description.)	AGREED WEIGHTS*	
1	BX	TCN:N62591 3137 8003 (Re GBL H 0,865,547 covering movement of 1,2,3,4 ~~5 & 6 of 6~~ 5 & 6 of 6) (Box No.4 of 5) Item 18240,Electrical Instruments, NOI(Components) Cu 12 Sec 22 Cuo 11B Sup 9 NO LABELS REQUIRED, LABELED CARGO MOVED VIA MTR	179	9 DS

CONTRACT, PURCHASE ORDER OR OTHER AUTHORITY FOR SHIPMENT	ISSUING OFFICE	
DD1149,N62591Naval Trn Unit,USACHLCS ~~XXXXXXXXXXXXXXXXXX~~Hqtrs. O. Ft McClellan,Al		
CARRIER'S AGENT (Signature) Ft McClellan,Al	DATE OF SHIPMENT	ISSUING OFFICER (Signature and Title) WARDELL SMITH,CPT,TC,TO.TA FOR TO
		DATE 13June 73 fa

*Show also cubic measurements for shipments in cases where required.

7

Memo For Record - 14 June 1973
SUBJECT: Final Radiological Clearance

1. The USAEHA Clearance Team was here 29-31 May 73 and the AEC Region II representative was here 6 Jun 73 to perform final survey and to give us the OK radiologically.

2. Both brought instruments and did some checking, and both gave us the green light.

3. The residual contamination is being held under an AEC license, for which application was made 4 May 73 and which is inclosed in the close-out file.

4. AEHA was to have sent us a "fast" letter, clearing us for inclosure in this file, but it has not arrived as of this date. Thus we are operating under their verbal clearance (the Team had an exit interview with the Commandant).

Charles J. Wickstrom

CHARLES J. WICKSTROM
MAJ, CmlC
Chief, Health Physics Div

Summaries 14 June 1973

The Radiological Decontamination Plan dated 16 Feb 73 included provision for seven summaries which are attached hereto. Mr. Holladay of Dir of Fac Eng, Bldgs & Grounds, has been sent the summaries he was designated to receive in the plan. (The task numbers on the attached summaries refer to the Decon Plan, which is included in the close-out file.)

Task 18: Bldg 3192 and Liquid Waste Disposal System

1. The required instructions are to be found in Fort McClellan Reg 385-8, written by MAJ Wickstrom and Mr. Daniel, dated 4 Jun, contained in the close-out file and in the attached instructions for Liquid Waste Disposal System.

2. The residual contamination resulted in an AEC license requirement imposed by Mr. Fagan at DA.

LIQUID WASTE SYSTEM INSTRUCTIONS

I. To Sample Water From Hot Cell Liquid Waste Tanks, Remove cap from Breather Pipe Above 1500 Gal Tank, and replace elbows.

1. Close valve A (valve from sump pump).
2. Open valve B (low level discharge 1500 gal tank).
3. Open valve C (main route bypass).
4. Open valve D (liquid return to 1500 gal tank).
5. Press "ON" switch for pump motor.
6. Allow liquid to circulate for about 24 hours.
7. Obtain a sturdy one quart plastic container which can be sealed.
8. Open valve E (sampling point) and fill container with liquid using the attached hose.
9. Close valve E, turn pump motor "OFF". Close valves D, C, and B, open valve A.
10. Send sample to AEHL for analysis.
11. Replace breather cap.

II. To Pump Water from Hot Cell Liquid Waste Tanks,

Remove 1500 gal tank breather cap and replace elbows.

1. Close valve A (valve from sump pump).
2. Open valve B (low level discharge 1500 gal tank).
3. Open valve C (main route bypass).
4. Unlock valve F (final discharge to sanitary sewer) and open.
5. Press "ON" button for pump motor.
6. When liquid level indicator indicates all water is gone from tanks, press "OFF" button for pump motor, close valve F and lock it, close valves C and B, and open valve A.
7. Replace breather cap.

III. The sump pump is a separate motor in the pit and operates to pump water to sewerage when the level rises above the first switch located in the pit.

IV. Maintenance consists of insuring motors are operational and that general repair of system is performed as required.

Task 27: Bldg 3180 and Environs

1. The formerly raised concrete pad surrounding Bldg 3180 has been taken up and repoured, all contamination was below acceptable limits.
2. The inside of the bldg formerly had spots up to 210 mr/hr and has been decontaminated by surface removal, down to acceptable limits.
3. The interior storage well was concrete-filled.
4. The exterior well, just off the SW corner of Bldg 3180, was filled to 1' below surface, lead was melted into the hole, then the rest was poured. This filled well is still contaminated below the lead. Highest reading before filling was 50 mr/hr about 8' down (bottom). This was a storage well, not a water well.
5. This bldg can now be used as a paint or storage shed.

Task 47: Bromine Pad

1. This facility is now ready for use as an installation vehicle wash rack.
2. Maintenance instructions are attached.

MAINTENANCE OF BROMINE PAD
LIQUID WASTE DISPOSAL SYSTEM

1. VALVES SHOWN AS A, B, C, D AND E SHOULD REM
OPEN, ALL OTHER VALVES NOT SHOWN SHOULD BE
CLOSED.

2. MAINTENANCE CONSISTS OF keeping THE DRAIN
GUTTER AND DRAIN PIPES FREE OF DEBRIES

3. IF FOR SOME REASON WATER COLLECTS IN A
OF THE HOLDING TANKS, IT MAY BE EMPTIED
OPENING THE VALVE ON THE LARGE PIPE AT TH
BOTTOM OF THE TANK.

Task 56: Alpha Field

All decon tasks have been complied with on schedule and this fenced facility is now open for general use, no contamination remaining. The soil has been tilled to a 6" depth according to instructions.

Task 58: Rideout Field

1. The USAEHA Survey Team made up of MAJ Lodde and Mr. Wilborn surveyed this site on their first close-out-associated visit 4-7 Feb 73. At this time, they stated that there was no residual contamination that was above acceptable limits, including the old fenced, former burial ground, and they did not bother to reinspect the site after that.

2. MAJ Anderson's input on the Rideout Field phase-down, which he supervised, is included in the close-out file (his letter is dated 16 Feb 73).

Task 60: Iron Mountain (Rattlesnake Gulch)

1. An excerpt of the report in the Health Physics file is included as the first document in the close-out file.

2. This site was surveyed by USAEHA 4-7 Feb 73 and again 29-31 May 73, having been decontaminated by soil removal in the meantime. Ten drums of soil were removed by troop labor and sent to Kentucky for burial.

3. The site was found to be within acceptable contamination limits at the time of the radiological clearance survey 29-31 May 73.

4. For a map of how to find the site (near Summerall Gate), see the first document in the close-out file.

Task 61: Old Radium Vault (Bldg 812½)

1. This item came up when COL Ladson, formerly Commandant of USACMLCS, recalled its location and asked MAJ Anderson about it.

2. This was decontaminated by surface removal by MAJ Anderson.

3. The USAEHA Team found this bldg to be within acceptable contamination limits during their visit 4-7 Feb 73 and did not revisit it thereafter.

4. This bldg is fine for use as a paint or storage shed.

Statement of Bldg Clearance

1. The USACMLCS has used several buildings for radiation training areas in the past. These bldgs listed below are free of contamination or have very small amounts of contamination which are within acceptable limits.

Bldg 3182
Bldg 3180
Bldg 3181
SW half of Bldg 3192

These have required some decontamination to achieve this status, but are now OK for unlimited use.

2. The NE half of Bldg 3192 and some associated underground items are still contaminated to a small degree. This is under the control of Mr. Daniel, Post Safety Director and RPO. AEC and DA have approved our measures. Signs have been erected.

DRAFT

ATSCM-CO

14 JUN 73

SUBJECT: After Action Report on the Disestablishment of the United States Army Chemical Center and School

THRU: Commander
US Army School/Training Center
Fort McClellan, Alabama 36201

TO: Commander
United States Continental Army Command
Fort Monroe, Virginia 23651

1. References:

a. CONARC Msg 152254Z Feb 73, subject: Disestablishment of the USACMLCS.

b. TUSA General Order Number 241, 18 May 73.

2. This report covers the period from 11 January 1973, when the public announcement was made on the disestablishment of the USACMLCS, until 24 June 1973, the official date of disestablishment. A chronological listing of major events is contained in Inclosure 1.

3. Highlights.

a. The last Chemical Officer Basic Class graduated on 20 April 1973 with the highest academic average of any Basic Officer Class in the history of this School.

b. A total of 24,507 classified documents were all accounted for.

c. A total of 345 arms and weapons were all accounted for.

d. The Book Department, Commandant's Welfare Fund and all unit funds were audited and no discrepancies noted.

e. Eight thousand books from the School Library were furnished to the Sergeants Major Academy.

f. Several million dollars worth of facilities and property have been properly disposed of. Losses totaled [illegible].

g. The School earned the Department of the Army Zero Defects Award for the second consecutive year.

h. The School exceeded its Cost Reduction goal of $26,300 for FY 73 by 1,054% in the first half of FY 73. CONARC recognized the School as being second among 26 schools in achieving cost reduction goals.

i. All training areas in which toxic chemical agents were used have been thoroughly decontaminated and are declared fit for any type of future use.

j. Radiological clearances were received from the Atomic Energy Commission and the Army Environmental Health Agency.

4. Problem areas associated with the disestablishment of the School were:

a. Extensive compromise of CLOSE HOLD information by outside activities.

b. Policies for the disposition of civilian personnel.

c. Second permanent change of station for military personnel.

d. Lack of adequate training facilities at Aberdeen Proving Ground.

Each of these problems is addressed in detail in Inclosure 2.

5. Paragraph 7 of reference 1a requires submission of budgetary data and other information relating to disestablishment. This information is held by Headquarters, US Army School/Training Center, Fort McClellan, and will be forwarded separately.

6. In summary, this School accomplished its training mission while simultaneously planning and executing all actions relating to disestablishment. A tribute is paid to the officers, men and civilian employees of the Staf

and Faculty who undertook an unpleasant assignment and without exception executed it to perfection. The words of a British lieutenant colonel attending one of our last classes aptly describe their character and professionalism. He said, "I am absolutely amazed at the way your instructors can give a spirited class for one hour and pack lessons plans for Aberdeen the next."

2 Incl
1. Chronological list of major events (from Jan - Jun 74)
2. Problem areas

JACK VANDERBLEEK
Colonel, CmlC
Commandant
P.M.A.

ATSCM-H 8 JAN 1971

SUBJECT: Change of Key Radiological Safety Personnel and Amendment to AEC License

THRU: Commanding Officer, U. S. Army School/Training Center, Fort McClellan, Alabama 36201
Commanding General, Third United States Army, ATTN: AJAGL-D-S, Fort McPherson, Georgia 30330
Commanding General, United States Continental Army Command, ATTN: ATLOG-S/GS, Fort Monroe, Virginia 23351

TO: Deputy Chief of Staff for Logistics, ATTN: Chief, PEMA Execution Division, Department of the Army, Washington, D. C. 20310

1. References:

a. AEC Byproduct Material License No. 01-02861-01, as amended by Amendment No. 16, dated 3 July 1969.

b. AEC Byproduct Material License No. 01-02861-02, as amended by Amendment No. 03, dated 3 July 1969.

c. AEC Special Nuclear Material License No. 344, dated 6 April 1970.

2. The following individuals have been assigned to fill key radiological safety positions at the U. S. Army Chemical Center and School:

Name	Position	Radiological Safety Position
COL James W. Startt	Asst Commandant	Chairman, Isotope Committee
Mr. Roy M. Hirano	Training Officer, Radiological Defense Branch	Primary User
MAJ Raymond L. Anderson	Chief, Health Physics Division	Radiological Protection Officer
Mr. Edwin R. Bradley	Training Officer, Radiological Division	Alternate Radiological Protection Officer

File Myhf

ATSCM-H
SUBJECT: Change of Key Radiological Safety Personnel and Amendment to AEC License

3. Resumes of the training and experience of the individuals listed above are attached as Inclosures 1 through 4.

4. It is requested that the appropriate Atomic Energy Commission offices be notified of the above listed changes in key radiological safety personnel.

5. It is also requested that the AEC Licenses referenced in paragraph 1 of this letter be amended to include Memorandum Number 385-2, U. S. Army Chemical Center and School, titled "Radiological Safety Program", dated 2 November 1970. This memorandum supersedes a previous edition dated 8 January 1969.

FOR THE COMMANDANT:

LARRY J. SCHWERTNER
1LT, CmlC
Assistant Secretary

5 Incl
as (9)

MFR: Changes in key radiological safety personnel are required to be forwarded to AEC within 30 days of the change.

Raymond L. Anderson
RAYMOND L. ANDERSON, MAJ, CmlC, C, Health Physics Div/lhr/3937/8 Jan 71

APPROVED: Asst Comdt 8 Jan 71

COLONEL JAMES W. STARTT
CHEMICAL CORPS, U. S. ARMY

Civilian Education

Johns Hopkins University, Baltimore, Maryland - 1943-44
University of Maryland, College Park, Maryland - 1956-57

Military Education

Chemical Warfare School (CCS) - 1944
Chemical Warfare School (Basic) - 1945
Chemical Corps School (Advanced Course) - 1951
Special Weapons Staff Course - 1953
U. S. Army Command and General Staff College - 1958
U. S. Army CBR Weapons Orientation Course - 1961
U. S. Army Command and General Staff College
Nuclear Weapons Effects Course - 1961
Civil Defense Staff College - 1963
U. S. Army Signal School (ADPS Course) - 1963

Military Assignments

Contract and Procurement Officer (MOS 4320) - 1946-47
Assistant Post Adjutant (MOS 2110) - 1949-50
Assistant V Corps Chemical Officer (MOS 7315) - 1951-53
Smoke Generator Company Commander (MOS 1415) - 1953-55
Executive Officer, Fort Detrick (MOS 2019) - 1958-61
Chemical Officer, 7th Infantry Division (MOS 7315) - 1962-63
Instructor, Command and General Staff College (MOS 8-2728) - 1963-64
Chemical Officer, HQ, U. S. Army Southern Command (MOS 7315) - 1964-67
Chief, Maintenance Div, HQ, 5th Army (MOS 2625) - 1967-69
Director of Instruction, U. S. Army Chemical Center and School -
Aug 1969-Dec 1970
Assistant Commandant, U. S. Army Chemical Center and School - Jan 1971

REQUISITION AND INVOICE/SHIPPING DOCUMENT

1. FROM:

Property Officer, USACMLCS, Fort McClellan, Alabama 36201

2. TO:

Dr. Abraham Schwebel, Radiological Safety Officer
National Bureau of Standards
Building 245, Room C-125
Gaithersburg, MD 20760

3. SHIP TO

4. NO. | 5. SHEETS | 7. DATE MATERIEL REQUIRED | 8. PRIORITY

9. AUTHORITY OR PURPOSE

Message P152254Z Feb 73, subj: Disestablishment of the USACMLCS.

10. SIGNATURE

Ralph C. Smith

11a. VOUCHER NUMBER AND DATE

3135-1005

12. DATE SHIPPED | 6.

13. MODE OF SHIPMENT | 14. BILL OF LADING NUMBER

15. AIR MOVEMENT DESIGNATOR OR PORT REFERENCE NO.

6. APPROPRIATION SYMBOL AND SUBHEAD	OBJECT CLASS	EXPENDITURE ACCOUNT (From)	EXPENDITURE ACCOUNT (To)	CHARGEABLE ACTIVITY	BUREAU CONTROL ACTIVITY NO.	BUREAU CONTROL NO.	AMOUNT
17X3980.2339	022			73001 0	000023 2D	000000 0003	6598003

ITEM NO. (a)	FEDERAL STOCK NUMBER, DESCRIPTION, AND CODING OF MATERIEL AND/OR SERVICES (b)	UNIT OF ISSUE (c)	QUANTITY REQUESTED (d)	SUPPLY ACTION (e)	TYPE CONTAINER (f)	CONTAINER NOS. (g)	UNIT PRICE (h)	TOTAL COST (i)
1.	Neutron Beam Irradiation Facility	ea	1	1	Box	1/2		
2.	Neutron Source (MRC-Am-Be-1279) (Radioactive)	ea	1	1	Can	2/2		

See attached inclosure.

"This is to certify that the above named articles are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation."

CHARLES J. WICKSTROM
MAJ, CmlC
C, Health Physics Division

PRIORITY SHIPMENT REQUESTED.
Ship not later than 25 May 73.

JACK VANDERBLEEK
COL, CmlC
Commandant

16. TRANSPORTATION VIA (If not shipped collect, state whether prepaid or to be billed)

17. SPECIAL HANDLING

RECAPITULATION OF SHIPMENT	18. PACKED BY	TOTAL CONTAINERS	TYPE CONTAINER	DESCRIPTION	TOTAL WEIGHT	TOTAL CUBE
		2		Neutron Beam & Source	570	27.8
	CHECKED BY					
	PACKED BY					
		2		← TOTAL →	570	27.8

19. RECEIPT		DATE	BY	SHEET TOTAL
	CONTAINERS RECEIVED EXCEPT AS NOTED			
	QUANTITIES RECEIVED EXCEPT AS NOTED	DATE	BY	GRAND TOTAL
	POSTED	DATE	BY	20. RECEIVER'S VOUCHER NO.

DD FORM 1 MAR 59 1149

REPLACES EDITION OF 1 MAY 58 WHICH MAY BE USED

HPD

RADIOACTIVE MATERIALS MOVEMENT
[XX] SHIPMENT [ ] RECEIPT
For use of this form, see AR 55-55; the proponent agency is Office of the Deputy Chief of Staff for Logistics.

(See instructions on reverse)

DETAILS OF SHIPMENT

1. TO: (Include ZIP Code)	2. FROM: (Include ZIP Code)
Dr. Abraham Schwebel, Rad Saf Off National Bureau of Standards Building 245, Rm C-125 Gaithersburg, MD 20760	Health Physics Division USACMLCS Fort McClellan, AL 36201

3. SHIPMENT NUMBER	4. SECURITY CLASSIFICATION	5. MODE OF SHIPMENT (e.g., Railway Express)

6. COMMODITY DESCRIPTION			7. RADIOACTIVITY	8. LEVEL	
CONTAINERS a	NUMBER OF ITEMS b	NOMENCLATURE c	QUANTITY, ISOTOPE AND FORM d	AT SURFACE	AT ONE METER
1	1	Neutron Source Am-Be SN MRC AM-Be-1279	2.5 Ci, Am241, special (6.50x10^6 n/sec)	117.0 mrad/hr	5.4 mrad/h

SHIPMENT
THE ABOVE DESCRIBED ARTICLES ARE PROPERLY CLASSIFIED, PACKAGED, MARKED, AND LABELED, THE ARTICLES ARE IN PROPER CONDITION FOR TRANSPORTATION AND THE SPREADABLE ACTIVITY AND DOSE RATES ARE WITHIN THE SPECIFIED LIMITS, AS PRESCRIBED BY APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION AND DEPARTMENT OF THE ARMY.

8. REMARKS

DOT 7A container weight 20 lbs cube 0.8 cu ft

9. SPECIAL PRECAUTIONS

None

10. SIGNATURE OF RADIATION PROTECTION OFFICER (Shipping Organization)	DATE
CHARLES J. WICKSTROM, MAJ, CmlC, C, HEalth Phy Div	15 May 73
11. SIGNATURE OF TRANSPORTATION OFFICER (Shipping Organization) / PRINTED NAME AND TITLE	DATE
12. ORGANIZATION	

DA FORM 2791-R, 1 Oct 70 REPLACES DA FORM 2791, 1 JUN 58, WHICH IS OBSOLETE. (Paper used, 8" x 10½", image area, 7.4"x10" x 10")

Front

Figure 3-7. DA Form 2791-R.

MEMO FOR RECORD 4 Jun 73

SUBJ: Shipment to EA 4 Jun

1. Health Physics sent some items on the 4 Jun shipment, to wit:

5 drums and one vacuum cleaner
(three were heavy drums, 55 gal, est several hundred lb each)
(two were light drums, 55 gal, one with vac clnr parts)
(vac clnr was tank type, large(too big for drum))

2. This was a mil convoy shipment (342d Trans Co).

3. Shipment was sent to Mr Earl Wright, and Mr Jim Jones will receive it for him. They have both been called on this. It is going to B/5685.

4. Reason for this unplanned shipment was the actions taken during the close-out rad clearance inspection by AEHA.

C. J. WICKSTROM
MAJ, USMC
C, HP Div

5-17

#777

ROUTINE ********** * U N C L A S S I F I E D * **********

PT 00198 138 201933

RTTUZYUW RUEADW01834 1381920-UUUU--RUCLBW4.

ZNR UUUUU

R 181920Z MAY 73

FM DA WASH DC //DALO-MAS-I//

TO RUCLSWA/CDRUSASTC FT MCCLELLAN AL //ATSCM-HP//

INFO RUEOPOA/CDRCONARC FT MONROE VA //ATLOG-MAT-EQ//

RUEOGDA/CDRAPG ABERDEEN PG MD //AMXBR-XM-HP//

RUCLHTA/CDRUSA THREE FT MCPHERSON GA //AJAGL-M-M//

BT

UNCLAS

SUBJ: DISPOSITION OF RADIOACTIVE MATERIAL

A. MSG ATSCM-HP 101312Z MAY 73, SUBJ AS ABOVE.

1. RE PAR 1.A. OF REF NEGATIVE.

2. RE PAR 1.B. THIS HQ DOES NOT HAVE COPIES OF AGREEMENTS MENTIONED. SUGGEST CONTACT LOCAL AEC OFFICE.

3. RE PAR 1.C. AEC-741 REPORT NOT NEEDED FOR UNDER 1 GRAM.

4. RE PAR 1.D. APPLICATION NOT RECEIVED; HOWEVER, WE WILL HOLD AS APPROPRIATE.

5. RE PAR 1.E. THIS IS OK.

BT

#1834

L H P

/- File

ROUTINE ********** * U N C L A S S I F I E D * **********

01 02 041630Z RR RR UUUU
NO

COR USASTC FT MCCLELLAN AL //ATSCH-HP//
DA WASH DC //DALO-MAS-I//
INFO: COR CONARC FT MONROE VA //ATLOG-MAT-EQ//
COR APG ABERDEEN PG MD //AMXBR-XM-HP/USAEHA-RH//

UNCLAS

Subj: Notification of Transfer of Radioactive Material — —

A. Msg ATSCH-HP 301659Z Apr 73, subj: Disposition of Radioactive Material.

B. Ltr AJMGP-S-S 4 May 73, subj: Atomic Energy Commission License Application.

C. Msg ATSCH-HP 101312Z May 73, Sub: Disposition of Radioactive Material.

D. Msg DALO-MAS-I, No. 1834, 181920Z May 73, subj: Disposition of Radioactive Material.

1. All radioactive material other than residual contamination has been been transferred or disposed of by USACHLCS.

2. Request submissions in Ref A and B be considered as arranged by Ref C and D.

CHARLES J. WICKSTROM, MAJ, C, Hlth Phy
Div, USACHLCS, ATSCH-HP, 3937, 29May73

UNCLASSIFIED

02 02 041630Z

3. Radiological closeout survey has been completed by USAEHA and all areas have been found to be within acceptable limits except for areas of residual contamination designated in Ref B.

UNCLASSIFIED

TWX 041630Z Jun 73, subj: Notification of transfer of RadioactiveMaterial

MFR: Required by DA before they will act on our requests for cancellation of AEC Licenses and application for residual contamination.

Charles Wickstrom HOLD UNTIL 4 JUN COPIES GOES

CHARLES J. WICKSTROM, MAJ, C, Hlth Phy Div/29 May 73/kh/3937

APPROVED: Asst Comdt _____

JOINT MESSAGEFORM						SECURITY CLASSIFICATION: UNCLASSIFIED			
PAGE	DRAFTER OR RELEASER TIME	PRECEDENCE ACT	PRECEDENCE INFO	LMF	CLASS	CIC	FOR MESSAGE CENTER/COMMUNICATIONS CENTER ONLY	DATE – TIME	MONTH	YR
1 OF 16	2616303	RR	RR		UUUU		0591, 0592, 0593	301659	APR	73
BOOK NO	MESSAGE HANDLING INSTRUCTIONS (3 SECTION MSG)									

FROM: CDR USASTC FT MCCLELLAN //ATSCM-HP//

TO: CDRUSATHREE FT MCPHERSON GA //AJAGL-M-M//

CDRCONARC FT MONROE VA //ATLOG-MAT-EQ//

DA WASH DC //DALO-MAE//

CDR EA EDGEWOOD MD //SMUEA-PA-T//

CDR APG ABERDEEN PG MD //AMXBR-XM-HP//

CDR NAVFACENGCOM WASH DC //CODE 042//

CDR NAVELEX WASH DC //CODE 0516//

INFO : DA WASH DC //DALO-MAS-I//

CDR USAONE FT MEADE MD //AHABD-BAS//

CDR USAMC WASH DC //AMCSU-S//

CDR NAVSHIPSENGCTR HYATTSVILLE MD //CODE 6105//

CO NAVELEX-SE CHARLESTON SC //DIV HQ//

CDR LEX BGAD LEXINGTON KY //AMXLX-CO//

CDR EA EDGEWOOD MD //SMUEA-CO/SMUEA-SA/SMUEA-TS-MC//

CDR APG ABERDEEN PG MD //ATSOR-I/ATSOR-L/ATSOR-SO//

CDR APG ABERDEEN PG MD //STEAP-SA//

CDR APG ABERDEEN PG MD //USAEHA-RH//

USAEC HQ GERMANTOWN MD //DIR OF LICENSING//

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DRAFTER TYPED NAME, TITLE, OFFICE SYMBOL, PHONE & DATE	SPECIAL INSTRUCTIONS
CHARLES J. WICKSTROM, MAJ, C, HP Div; USACMLCS, ATSCM-HP, 3937, 26 Apr 73	
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BOOK NO	MESSAGE HANDLING INSTRUCTIONS								

FROM:

TO:

INFO :RUCLHTA/USAEC REGION II ATLANTA GA //DIR OF REGULATORY OPNS//

UNCLAS

AEC GERMANTOWN FOR MR. BORYER; AEC ATLANTA FOR MR. GUINN; ATSOR-I

PASS TO LTC ARMSTRONG

SUBJ: DISPOSITION OF RADIOACTIVE MATERIAL

A. MSG #0288 THIS HQ, 162011Z JAN 73, SUBJ: DISPOSAL/CLEANUP OF RADIOACTIVE MATERIAL(NOTAL)

B. MSG #0289 THIS HQ, 162010Z JAN 73, SUBJ: RADIOLOGICAL DECONTAMINATION LIMIT GUIDANCE(NOTAL)

C. RADIATION SPECIAL STUDY 43-041-73, USAEHA, SUBJ: EVALUATION OF RADIOACTIVE CONTAMINATION AT USACMLCS(NOTAL)

1. BY REF A, NOTIFICATION WAS GIVEN OF PLANNED DISESTABLISHMENT OF USA CHEMICAL CENTER AND SCHOOL (USACMLCS) AT FT MCCLELLAN AL, AS IT AFFECTED RADIOLOGICAL ACTIVITY. SHUT-DOWN DATE HAS SINCE BEEN SHIFTED FROM 30 JUN TO 24 JUN.

2. REF A INCLUDED REQUEST FOR PERMISSION TO SHIP TO AND STORE AT EDGEWOOD ARSENAL MD RADIOACTIVE MATERIALS CURRENTLY HELD BY

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BOOK NO

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FROM:

TO:

USACMLCS, UTILIZING EDGEWOOD LICENSES BML-19-12056-02 AND SNM-9. NO REPLY HAS BEEN RECEIVED. THIS MSG FOLLOWS UP WITH MORE SPECIFIC DATA ON DISPOSITION ACTIONS.

3. BY REF B, USACMLCS REQUESTED GUIDANCE FOR RADIOLOGICAL DECONTAMINATION OF FT MCCLELLAN FACILITIES. USAEHA HAS RESPONDED WITH VISIT AND REF C. DECONTAMINATION IS PROCEEDING AS DIRECTED AND NO DIFFICULTIES ARE FORESEEN IN COMPLETION OF PHYSICAL WORK.

4. INSPECTION TO GRANT RADIOLOGICAL CLEARANCE IS CURRENTLY PLANNED BY USAEHA FOR WEEK OF 29 MAY-1 JUN. USAEC FOLLOW-UP VISIT BY REGIONAL REPRESENTATIVE IS PLANNED FOR WEEK OF 4 JUNE. BY THE TIME OF THESE VISITS, ALL RADIOACTIVE MATERIALS ARE TO HAVE BEEN SHIPPED OUT FROM USACMLCS.

5. SHIPMENT MODE FOR RADIOACTIVE SOURCES GOING FROM FT MCCLELLAN TO EA MD, AND ALSO THOSE ULTIMATELY GOING TO APG MD IAW PARA 16, IS PLANNED AS SINGLE SHIPMENT IN COMMERCIAL VAN-TYPE TRUCK, DEPARTING FT MCCLELLAN FOR EA MD IN LATE MAY. MILITARY CONVOY, ALTHOUGH IT WILL BE RETAINED AS A BACK-UP MODE, IS NOT

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FROM:

TO:

FELT TO BE SUITABLE FOR THIS SHIPMENT DUE TO SPECIAL ROUTE CLEARANCE AND ESCORT RQMTS, AND DIFFICULTIES IN ADAPTING SHIPMENT TO AVAILABLE MILITARY VEHICLES. THERE WILL BE FOUR OTHER DISTINCT SHIPMENTS. THE ITEMS FOR REDSTONE ARS WILL GO WITHIN MILITARY CONVOY, WHILE THE WASTE DISPOSAL SHIPMENT IS EXPECTED TO BE COMMERCIAL, AS ARE BOTH NAVY ITEM SHIPMENTS. LOCAL SECOND DESTINATION FUNDS WILL BE UTILIZED FOR THE COMMERCIAL MOVES.

6. THE HEALTH PHYSICIST AT THE SHIPMENT DESTINATION AT EDGEWOOD ARS, WITH AEC LICENSES BML-19-12056-02 AND SNM-9, A MR. EARL WRIGHT, HAS BEEN COORDINATED WITH ON THIS TRANSFER AND HAS BEEN FURNISHED AN INCLUSIVE SOURCE LIST. HIS LICENSES HAVE THE CURIE CAPACITY TO ACCEPT THE PLANNED SOURCE TRANSFERS.

7. ALL SOURCES FOR WHICH APG MD BLDG 5218 IS THE DESIGNATED TERMINAL LOCATION SHOWN IN PARA 16 WILL BE RECEIVED FIRST AT EA MD BLDG 5685 INTO CUSTODY OF MR. EARL WRIGHT FOR INSPECTION AND FOR TEMPORARY STORAGE UNTIL THE BLDG 5218 FACILITY IS READY WITH VAULT.

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FROM:

TO:

8. FOR DALO-MAE MR. FAGAN AND AEC DIV OF LIC MR. BORYER: THIS MSG CONSTITUTES OFFICIAL REQUEST FOR CANCELLATION IN ENTIRETY OF THE THREE AEC LICENSES HELD BY COMMANDANT OF USACMLCS, TO WIT BML-1-2861-1, BML-1-2861-2, AND SNM-344, EFFECTIVE 24 JUN, AND FOR APPROVAL OF TRANSFERS OF RADIOACTIVE MATERIAL ASSOCIATED WITH DISPLACEMENT OF USACMLCS TRAINING CAPABILITY TO OTHER LOCATIONS, AS SPECIFICALLY DELINEATED IN PARA 16 BELOW. APPROVAL OF PLANNED TRANSFERS IS NEEDED BY 9 MAY IN ORDER TO COMPLY WITH TRANSPORTATION LEAD TIMES TO ALLOW DISPATCH OF RADIOACTIVE MATERIALS BEFORE INSPECTION TEAM ARRIVES 29 MAY. REQUEST AUTHORITY TO OBTAIN TELEPHONIC APPROVAL FROM YOU OF THE TWO NAVY TRANSFERS ONCE ADDRESSEES ARE FURNISHED (PARA 16U, 16V). REQUEST AUTHORITY FOR TELEPHONIC REQUEST TO SMUEA-TS-MC: MR. DEAN ON DISPOSAL ACTION FOR PARA 16W ITEMS, TO ENABLE SHIPMENT OF ALL RADIOACTIVE WASTE BEFORE INSPECTION COMMENCES 29 MAY. REQUEST YOUR EARLIEST ACTION ON NEW AEC LICENSE APPLICATION COVERING RESIDUAL CONTAMINATION, REQD

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FROM:

TO:

BY REF C, WHICH IS BEING SUBMITTED THRU CHANNELS, TO ENABLE ACTION ON APPLICATION IN TIME TO INFORM INSPECTION TEAM OF OUTCOME DURING WEEK OF 29 MAY. THIS LICENSE WILL BE HELD BY CDR USASTC FT MCCLELLAN (AJMGP-S-S: MR. DANIEL, RPO). THE USE OF LICENSES BML-19-12056-02 AND SNM-9 IS ENVISIONED TO BE TEMPORARY UNTIL US ARMY ORD CEN & SCH (USAOC&S) CAN GET NEW AEC LICENSE APPLICATIONS APPROVED. ALTHOUGH SOME WORK REMAINS TO BE DONE ON USAOC&S FACILITIES, TRAINING REQUIREMENTS FOR USE OF RADIOACTIVE MATERIALS WILL BE ABOUT THE SAME AS THEY HAVE BEEN AT USACMLCS.

9. FOR ATLOG-MAT-EQ, MAJ STEVENS AND AJAGL-M-M, MR. ADAMCZYK: REQUEST THAT YOU COMMUNICATE ANY NONCONCURRENCES TO DALO-MAE SO THAT MR. FAGAN MAY TAKE ACTION ON REPLY BY THE 9 MAY SUSPENSE. FURTHER REQUEST YOU EXPEDITE PROCESSING OF AEC LICENSE APPLICATION FOR RESIDUAL CONTAMINATION.

10. FOR AMXBR-XM-HP, MR. WRIGHT: THIS CONFIRMS AND UPDATES LETTER DTD 22 FEB 73. LATE MAY SHIPMENT WILL BE UNESCORTED.

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FROM:

TO:

REQUEST YOU RECEIVE AND STORE IN BLDG 5685 OUR SOURCES DESIGNATED TO BE HELD AT YOUR LOCATION IN PARA 16. WE PLAN TO UNCRATE AND LEAK TEST SOURCES WHEN OUR HEALTH PHYSICS PERSONNEL ARRIVE. WE WILL NOTIFY YOU BY AUTOVON 584-2710 WHEN SHIPMENT DEPARTS FT MCCLELLAN.

11. FOR SMUEA-PA-T, MR. SINCLITICO: REQUEST THAT ONE AN/UDM-1A SHIPPING CONTAINER, WEIGHT APPROX 800 POUNDS, BELONGING TO YOUR DIVISION, BE SHIPPED TO USACMLCS FT MCCLELLAN AL, ATTN: DIR, OFC OF LOG(ATSCM-OL), FOR USE IN CONNECTION WITH PARA 16U TRANSFER. REQUEST SHIPMENT ASAP, NLT 15 MAY. FUNDS HAVE BEEN ALLOCATED BY USACMLCS FOR SHIPMENT TO FT MCCLELLAN. ACCOUNTING CLASSIFICATION: 2132020 53-7230 P810000-2200 S01088 APC W6AB BVN01-732-73. REQUEST COPY OF OBLIGATING DOCUMENT BE FURNISHED USACMLCS AT ABOVE ADDRESS, ATTN: ATSCM-MB. YOU WILL BE INFORMED AS TO IDENTITY OF DESIGNATED NAVY RECEIVING ACTIVITY, WHICH WILL RETURN CONTAINER TO YOU AT THEIR EXPENSE. PREVIOUS CONTACTS

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BOOK NO

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FROM:

TO:

HAVE BEEN BY PHONE WITH MR. DIXON AND MR. EDWARDS.

12. FOR SMUEA-TS-MC, MR. DEAN: SIXTY-TWO DRUMS HAVE BEEN FILLED BY DECONTAMINATION WORK AND SOURCE DISPOSAL ACTIONS AT THIS TIME, AND THE FIGURE SEVENTY-FIVE IN PARA 16W IS A PROJECTION. NO DRUM IS EXPECTED TO EXCEED YELLOW LABEL THREE CLASSIFICATION.

13. FOR USAEHA-RH, LTC BLACKBURN: PARA 4 CONFIRMS OUR FONECON OF 19 APR. REQUEST THAT INSPECTING TEAM CHIEF BE AFFORDED COPY OF THIS MSG.

14. FOR NAVY ADDRESSEES: YOUR ASSISTANCE IS REQUESTED IN HANDLING TRANSFERS OUTLINED IN PARA 16U AND 16V. IT IS ANTICIPATED THAT THE NAVAL TRAINING UNIT AT FT MCCLELLAN WILL BE DISESTABLISHED BY 1 JUL AND WILL NOT MOVE TO SAME LOCATION AS USACMLCS. COMMANDER, NTU FT MCCLELLAN CONCURS IN THIS REQUEST. THE 9 MAY SUSPENSE OF PARA 8 WILL APPLY. CDR NAVELEX IS EXPECTED TO TAKE ACTION ON PARA 16U; CDR NAVFACENGCOM IS EXPECTED TO TAKE ACTION ON PARA 16V. NAVELEX PLEASE NOTE PARA 11.

15. CONTACT FOR QUESTIONS CONCERNING THIS MESSAGE IS HEALTH

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FROM:

TO:

PHYSICS OFFICER, USACMLCS, AUTOVON 865-3937/3618, MAJ WICKSTROM OR SSG TRUFFA.

16. THIS FINAL PARA DELINEATES SPECIFIC TRANSFERS PLANNED, INCLUDING SOURCE DESCRIPTIONS, QUANTITIES, DESTINATIONS, AND LICENSES INVOLVED:

A. TWO EACH RADIOACTIVE SOURCE SET M3A1 FROM FT MCCLELLAN TO EA, MD, BLDG 5685. SOURCES WILL REMAIN UNDER AEC LIC BML-19-1826-2, ISSUED TO DA AT EA, MD. AR 725-1 APPLIES. SER D-39,748.

B. TWENTY EACH RADIAC CALIBRATOR TS-784A/PD FROM FT MCCLELLAN TO EA, MD, BLDG 5685. SOURCES WILL REMAIN UNDER AEC LIC BML 16-5033-1, ISSUED BY LBAD, KY. AR 725-1 APPLIES. SER 083A4167, 151A4255, 070A4049, 065A3664, 011A3698, 031A-3896, 058A3900, 029A3911, 063A3930, 064A3931, 055A3952, 072A4023, 060A4035, 026A4043, 067A4050, 062A4122, 075A4150, 059A4174, 076A4180, 066A4181.

C. EIGHTY-FIVE EACH RADIOACTIVE TEST SAMPLE MX7338/

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FROM:

TO:

PDR-27, FROM FT MCCLELLAN TO US ARMY ORD CEN & SCHOOL (USAOC&S), PART AT APG, MD, BLDG 5218, REST AT EA, MD, BLDG 5685. SOURCES WILL REMAIN UNDER AEC LIC BML-19-1826-2, ISSUED TO DA AT EA, MD. SER K-3065 THRU K-3149 INCLUSIVE.

D. TWENTY EACH RADIOACTIVE TEST SAMPLE, MX7338/PDR-27, FROM FT MCCLELLAN TO REDSTONE ARS, AL, BLDG 3749. SOURCES WILL REMAIN UNDER AEC LIC BML-19-1826-2, ISSUED TO DA AT EA, MD. SER K-3150 THRU K-3169 INCLUSIVE.

E. SIX EACH SEALED SOURCE CS-137, ACTIVITY 93 TO 466 MILLICURIES EACH, TOTAL ACTIVITY 1490 MILLICURIES, FROM FT MCCLELLAN TO APG, MD, BLDG 5218. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-2, ISSUED TO BRL, APG, MD. SER 60251 THRU 60256 INCLUSIVE.

F. ONE EACH RADIAC CALIBRATOR AN/UDM-2, ACTIVITY 87 MILLICURIES OF SR-Y-90, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD, SER 0005.

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FROM:

TO:

G. SEVENTEEN EACH RADIAC CALIBRATOR AN/UDM-6, FROM FT MCCLELLAN TO USAOC&S, PART AT APG, MD, BLDG 5218, REST AT EA, MD, BLDG 5685. NINE EACH AN/UDM-6 WILL REMAIN UNDER AEC LIC SNM-954, ISSUED TO CDR, EA, MD, SER A-1113, A-1114, A-1115, A-1130, A-1131, A-1132, A-1133, A-1154, A-1155. REST FROM AEC LIC SNM-344, ISSUED TO USACMLCS, TO SNM-9, ISSUED TO BRL, APG, MD, SER A-0002, A-0013, A-0014, A-0015, A-0016, A-0019, A-0021, A-~~0022~~ A-0023

H. TWO EACH CHECK SOURCE FOR GERMAN ARMY RADIAC INSTRUMENT FH40T, TWENTY-FIVE MICROCURIE CESIUM, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD, SER 1598, 2455.

I. FOUR HUNDRED FIFTY U-233 ALPHA SOURCE PLATES, ACTIVITY RANGE 200,000 DPM TO 1,900,000 DPM, TOTAL QUANTITY OF URANIUM IN ALL PLATES 25 MILLIGRAMS, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. FROM AEC LIC SNM-344, ISSUED TO USACMLCS, TO SNM-9 ISSUED TO BRL, APG, MD. SER A-1 THRU A-450 INCLUSIVE.

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FROM:

TO:

J. NINE EACH CHECK SOURCE FOR AN/PDR-39, ONE-HALF MICRO-CURIE SR-Y-90 EACH, FROM FT MCCLELLAN TO APG, MD, BLDG 5218. SOURCE IS AN INTEGRAL INTERIOR PART OF THE INSTRUMENT. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD. SER 613, 623, 629, 630, 659, 673, 6582, LSD 49, LSD 319.

K. SIXTY EACH GAMMA SOURCES, COBALT-60, LOCALLY FABRICATED, DEPOSITED ON COPPER PLANCHET, STORED IN FORTY EACH THREE INCH BY TWO INCH TRAYS LABELLED COBALT-60, INDIVIDUAL SOURCE ACTIVITY UP TO ONE MICROCURIE, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD.

L. FORTY-FOUR BETA AND BETA-GAMMA SOURCES, LOCALLY FABRICATED, DEPOSITED ON COPPER PLANCHET, AND STORED IN FORTY-FOUR EACH THREE-INCH BY TWO-INCH TRAYS LABELLED UNKNOWN. INDIVIDUAL SOURCE ACTIVITY UP TO ONE MICROCURIE, MIXTURES OF UP TO FOUR OF THE FOLLOWING EIGHT ISOTOPES MAKING UP EACH

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FROM:

TO:

SOURCE, CA-45, CO-60, SC-46, CE-141, AU-198, CS-137, AG-110M, RB-86; FROM FT MCCLELLAN TO EA, MD, BLDG 5685. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD.

M. NINE HEAT-SEALED CLEAR PLASTIC BAGS CONTAINING AN ARTICLE OF EQUIPMENT OR A COPPER PLANCHET, ON WHICH IS DEPOSITED UP TO ONE MICROCURIE OF CALCIUM-45, FROM FT MCCLELLAN TO APG, MD, BLDG 5218. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS TO BML-19-12056-02, ISSUED TO BRL, APG, MD. SER 1, 4, 8, D, E, G, J, M, S.

N. FOURTEEN HEAT-SEALED CLEAR PLASTIC BAGS CONTAINING AN ARTICLE OF EQUIPMENT OR A COPPER PLANCHET, ON WHICH IS DEPOSITED UP TO ONE MICROCURIE OF SILVER-110 METASTABLE FROM FT MCCLELLAN TO APG, MD, BLDG 5218. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD. SER 2, 5, 7, B, C, H, I, K, N, Q, R, T, A2, B2.

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FROM:

TO:

O. SIX METAL DISK ICN COMMERCIAL CALIBRATION SOURCES FOR SCALERS, THREE EACH OF COBALT-60 AND CARBON-14; INDIVIDUAL SOURCE ACTIVITY LESS THAN ONE-TENTH MICROCURIE, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. THESE SOURCES ARE EXEMPT FROM AEC LICENSING REQUIREMENTS.

P. TWO METAL DISK US NUCLEAR CORP COMMERCIAL CALIBRATION SOURCES FOR SCALERS, COBALT-60, INDIVIDUAL SOURCE ACTIVITY LESS THAN ONE-HUNDREDTH MICROCURIE, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. THESE SOURCES ARE EXEMPT FROM AEC LICENSING REQUIREMENTS.

Q. FOUR METAL DISK COMMERCIAL CALIBRATION SOURCES FOR SCALERS, ONE OF WHICH BY US NUCLEAR CORP CONTAINS URANIUM-238 ACTIVITY 405 DPS, THE REST BY ICN CONTAINING NATURAL URANIUM WITH INDIVIDUAL SOURCE ACTIVITY LESS THAN ONE-TENTH MICROCURIE, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. THESE SOURCES ARE EXEMPT FROM SPECIFIC AEC LICENSING REQUIREMENTS, AND ARE HELD UNDER PARA 40.22 OF TITLE 10, CODE OF FEDERAL

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FROM:

TO:

REGULATIONS.

R. ELEVEN PLASTIC DISK OR TUBE GAMMA SPECTROSCOPY CALIBRATION SOURCES, FIVE DIFFERENT ISOTOPES, ACTIVITY LESS THAN ONE MICROCURIE EACH, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. THESE SOURCES ARE EXEMPT FROM AEC LICENSING REQUIREMENTS. ISOTOPES NA-22, CS-137, MN-54, BA-133, CO-60.

S. THREE GLASS VIAL LIQUID SCINTILLATION STANDARD SOURCES, CARBON-14, ACTIVITY RANGE TWO-HUNDREDTHS TO TWO-TENTHS MICROCURIE, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. FROM AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, TO BML-19-12056-02, ISSUED TO BRL, APG, MD.

T. ONE CALIBRATION SOURCE FOR LIQUID SCINTILLATION COUNTER, BECKMAN BETA-MATE-MODEL I, FORTY MICROCURIES CESIUM-137, FROM FT MCCLELLAN TO EA, MD, BLDG 5685. THIS SOURCE IS AN INTEGRAL INTERNAL PART OF THE INSTRUMENT. SOURCE WILL REMAIN UNDER AEC LIC, NUMBER UNKNOWN, ISSUED TO BECKMAN CORPORATION.

6 5 4 3 2 1 0

DISTR:

0

DRAFTER TYPED NAME, TITLE, OFFICE SYMBOL, PHONE & DATE	SPECIAL INSTRUCTIONS	
RELEASE: TYPED NAME, TITLE, OFFICE SYMBOL AND PHONE		
SIGNATURE	SECURITY CLASSIFICATION: UNCLASSIFIED	DATE TIME GROUP

JOINT MESSAGEFORM							SECURITY CLASSIFICATION: UNCLASSIFIED		
PAGE	DRAFTER OR RELEASER TIME	PRECEDENCE ACT	PRECEDENCE INFO	LMF	CLASS	CIC	FOR MESSAGE CENTER/COMMUNICATIONS CENTER ONLY	DATE – TIME	MONTH	YR
16 OF 16	2616302	RR	RR		UUUU			301659	APR	73
BOOK NO	MESSAGE HANDLING INSTRUCTIONS									

FROM:

TO:

U. ONE AN/UDM-1A RADIAC CALIBRATOR, NINETY-ONE CURIES CESIUM-137, FROM FT MCCLELLAN TO A NAVY ACTIVITY, CURRENTLY UNIDENTIFIED. THIS CALIBRATOR IS HELD UNDER AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, BUT IS NAVY PROPERTY. A NAVY ADDRESSEE, PROPERLY LICENSED TO RECEIVE THIS ITEM, IS REQUESTED IN TIME TO ALLOW FOR LATE MAY SHIPMENT. SER 10.

V. ONE AMERICIUM-BERYLLIUM NEUTRON SOURCE, ACTIVITY 2.5 CURIES AMERICIUM, SIX POINT FIVE MILLION NEUTRONS PER SECOND, FROM FT MCCLELLAN TO A NAVY ACTIVITY, CURRENTLY UNIDENTIFIED. THIS SOURCE IS HELD UNDER AEC LIC BML-1-2861-1, ISSUED TO USACMLCS, BUT IS NAVY PROPERTY. A NAVY ADDRESSEE, PROPERLY LICENSED TO RECEIVE THIS ITEM, IS REQUESTED IN TIME TO ALLOW FOR LATE MAY SHIPMENT. SER MRC-AMBE-1279.

W. SEVENTY-FIVE EACH FIFTY-FIVE GALLON METAL DRUMS OF RADIOACTIVE WASTE TRANSPORT INDEX RANGE FROM POINT ONE TO THREE POINT THREE, FROM FT MCCLELLAN TO A WASTE DISPOSAL LOCATION, AS YET UNDESIGNATED.

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DISTR:

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DRAFTER TYPED NAME, TITLE, OFFICE SYMBOL, PHONE & DATE	SPECIAL INSTRUCTIONS	
RELEASE: TYPED NAME, TITLE, OFFICE SYMBOL AND PHONE		
SIGNATURE	SECURITY CLASSIFICATION: UNCLASSIFIED	DATE TIME GROUP

MFR:

This message: (1) Follows up on previous message, (2) uses expanded addressee list as recommended by involved parties, (3) specifies actions and approvals needed from DA and AEC to accomplish deactivation in timely manner, (4) gives detailed data on specific source transfers, (5) acts as a sort of radiological progress report, (6) confirms a number of prior specified and unspecified telephonic arrangements, (7) is necessary, as opposed to a letter, due to USACMLCS deactivation time constraints, (8) could not be sent previously since several of the involved factors stated in the message became known only recently, (9) is lengthy, but all the data is required according to radiological advisors of higher headquarters.

CHARLES J. WICKSTROM, MAJ, CmlC, C, Health Physics Div, USACMLCS

COORDINATION: USACMLCS

Asst Comdt EMS 27 Apr

DOI

Ger Army LnO 30 Apr 73

Ofc of Log 30 Apr 73

M/PBO Ack 30 Apr CF

Rad Comte 30 Apr 73

Tech Gp 30 Apr 73

NTU

Disest. Proj O 30 Apr CF

Alt Hlth PhysO 30 Apr 73

USAS/TC

DPCA: Safety Mgr 30 Apr 73 CF

DIO: Trans Div 27 Apr 73 CF

DCE: Dir OK

DCO: OK

cc also: [illegible]
CMLS COMMAND
NO READING FILE

APPROVED:

Comdt

DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is The Adjutant General's Office.

REFERENCE OR OFFICE SYMBOL	SUBJECT
ATSCM-H	Memo for Record - Iron Mountain Burial Site

TO | FROM C, Health Physics Div | DATE 22 Feb 1971 | CMT 1

1. This memo is to document the events surrounding the discovery of the Iron Mountain (Rattlesnake Gulch) radioactive material burial site. The location of this site is: Coordinates 103290, ref: Map - Anniston, sheet 3851 III, series V744, scale 1:50,000.

2. On 18 February 1971, SFC Pryor, SSG Truffa, and myself, decided to check an area for possible radiological contamination. This survey was undertaken due to rumors about an old burial grounds and also due to some references to this area on some old dosimetry records in the Health Physics Division files. No other records pertaining to this area could be found anywhere at the Chemical School. The general location of the area in question was thought to be in a gully behind the biological field sampling area off Summerall Gate Road. After surveying a sizable portion of the area, I finally found the area in question. It is on the side of a mountain, not in a gulch. The area is about 140 feet long and 80 feet wide. It is enclosed with a hog wire fence topped with 3 strands of barbed wire. There is a gate in the fence and radiation warning signs located every fifty feet along the fence. Inside this fence, there is another fence made of barbed wire. A quick survey of the area revealed at least six (6) hot spots with the highest reading being 5 mr/hr. Upon returning to the Chemical School, I informed LTC Habermehl of this event. He said he would pass the information on to the Asst Commandant, Col Startt. As far as guidance as to what action should be taken, I was instructed to retain this information within the Health Physics Division for the time being.

3. On 19 Feb 71, members of the Health Physics Division returned to the Iron Mountain site to make a detailed survey of the area. The equipment used included two AN/PDR 27s, two E-510s, one AN/PDR-60, plastic bags, tape, tongs, shovels, and a film badge and dosimeter for everyone. The area was divided into six sections for the survey. A total of 18 hot spots were found on the surface of the ground. The highest reading was 5.5 mr/hr. At this spot a hole was dug to a depth of about one (1) foot. The reading at about the six (6) inch level was 22 mr/hr and then decreaded as the hole was made deeper. Numerous samples were taken throughout the area. These included soil, leaves, and bark from the trees in the area. Samples were also taken from the area outside the fence. Most of the samples were hot, however we did not get a sample that was hot enough for use in the single channel analizer. We suspect that the radioactive material in the area is cobalt 60 or cesium 137. These results were reported to LTC Habermehl, DOI, who in turn was to inform the Asst Commandant. He said that no decision had been made as of yet as to what to do about this area. Health Physics Division personnel are going to make another survey of the area. This will entail digging numerous holes to insure that no large containers of radioactive material are buried in the area.

Raymond L. Anderson

RAYMOND L. ANDERSON
Major, CmlC
C, Health Physics Div

4

REPORT SUMMARY

On 18 February 1971, Health Physics Division personnel discovered an old burial grounds for radioactive material. The area was formerly known as Rattlesnake Gulch, however, the present name is Iron Mountain. A radiological survey of the area yielded a total of 22 hot spots on the surface of the ground. The survey results and a sketch of the area are contained in Section III of this report.

No records were available at the Chemical School indicating what was buried in this area or when it was buried. Several individuals were contacted who had knowledge of this area. Section IV contains a letter resulting from this contact.

Health Physics Division was given the mission of cleaning up this area and disposing of any radioactive material recovered in accordance with current AEC regulations.

As time allowed, Health Physics Division personnel explored the burial grounds with picks and shovels. Three beach cans filled with rad lab waste were uncovered. In addition, two lead cylinders were recovered containing quantities of cesium 137 and strontium 90. The earth in the vicinity of these containers was contaminated. Eighteen 55 gallon drums of contaminated dirt were removed.

On 19 July 1971, a back-hoe was used to trench the area to be sure all radioactive material had been recovered from the site. By 23 July, the trenching was completed. On 27 July, a bulldozer filled in the trenches. A health physics survey of the area failed to reveal significant surface contamination remaining. The fence around the area was removed and the area closed out.

The recovered material will be disposed of in accordance with AR 755-15. A copy of this report will be on file in the Chemical School library and one will be retained by the Health Physics Division.

1958

U.S. ARMY CHEMICAL CORPS SCHOOL

FORT McCLELLAN, ALABAMA

IN REPLY REFER TO:
CMLTC-SDI-T

SUBJECT: Extension of Radiological Training Area in Pelham Range

THRU: Commanding Officer
US Army Chemical Corps Training Command
Fort McClellan, Alabama

TO: Commanding Officer
Fort McClellan, Alabama

1. Reference is made to preliminary coordination with S-3 Section, Headquarters, Fort McClellan, Alabama, on available facilities for a radiological training area in Pelham Range.

2. Purpose. The purpose of extending the present radiological training area as shown on inclosure 1 is to establish a capability at Fort McClellan for conducting radiological survey tests with high performance Army aircraft (jets) using latest detection equipment and to provide a capability to conduct aerial and ground radiological training surveys over large areas.

3. Discussion.

a. Prior planning is now being conducted by this command for probable radiological tests over large areas using high speed Army aircraft. Possibilities for using the Nevada Test Site in 1959 do not appear to be very hopeful, and any tests of this type that may be directed by the Department of the Army prior to 1960 may have to be conducted entirely at Fort McClellan.

b. The requirements for testing high speed aircraft (speed greater than 120 mph) dictate an area of at least 3500 yards in length by at least 500 yards in width. Any future training with higher performance aircraft would require an area of this size if suitable results comparable to field conditions are to be expected. A larger area would lend greater realism to the use of liaison type aircraft and ground vehicles in radiological training surveys.

c. Staff coordination with Army Aviation, Air Force, Marine and Navy personnel at the USA Chemical Corps School reveals that a capability for extended area radiological testing and training with high performance aircraft is nonexistent, is highly desirable and is warmly encouraged.

4. Requirements. The area requirements are shown on inclosure 1.

a. Roads. At least two (2) access roads are needed in the area. Existing roadnets within the area need improvements for all-weather traffic by light vehicles.

b. Bridges. Bridges over Cane Creek are indicated on inclosure 1.

c. Ground drainage. Necessary drainage should be provided in low areas for the passage of vehicles.

d. Boundaries. The boundary indicated on inclosure 1 for the radiological area must be fenced-in with suitable fencing (barbed wire) to indicate a restricted area.

e. Signs. Warning signs to indicate "DANGER - HIGH RADIATION AREA" with AEC and military radiation symbols must be prominently posted every 50 feet along the periphery of the fence and facing away from the area. A large sign about 3 feet by 5 feet must be placed at each entrance to the area to indicate "DANGER - RADIOACTIVE FIELD - KEEP OUT - AUTHORIZED PERSONNEL ONLY."

f. Entrances. Locked gates must be provided at each entrance to the area.

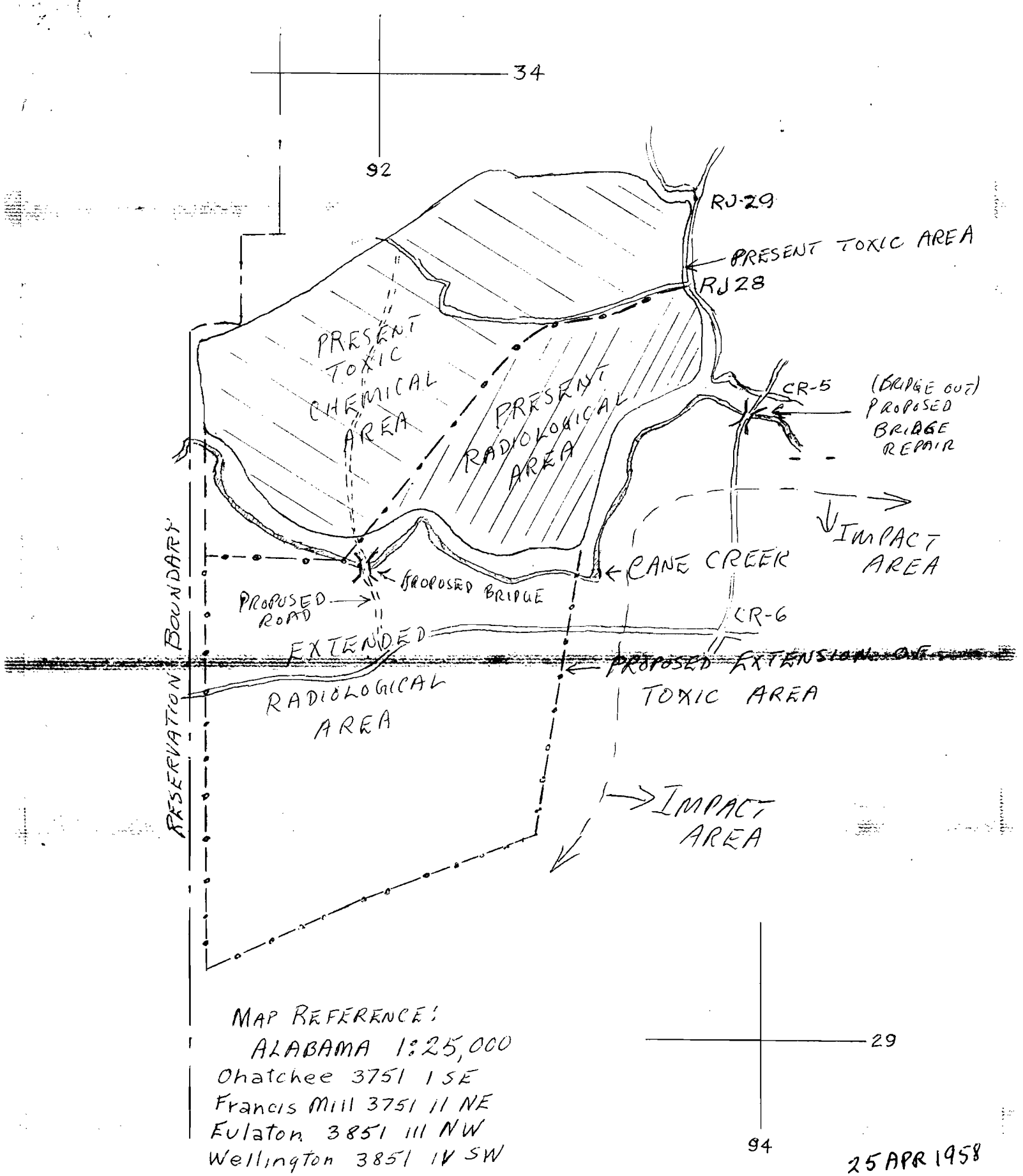
g. Corridors. Corridors 100 yards wide should be provided along the boundary of the radiological area between the fence and the military reservation west boundary line. A cleared area outside the fence along the periphery should be provided for checking the fence by the range guard.

5. Recommendation. That the requirement for an extended radiological training area be included in the training construction program for FY59.

FOR THE COMMANDANT:

1 Incl
Overlay of Radl Tng Area

CHARLES D. CAUSEY
Major, CmlC
Secretary



MAP REFERENCE:
ALABAMA 1:25,000
Ohatchee 3751 I SE
Francis Mill 3751 II NE
Eulaton 3851 III NW
Wellington 3851 IV SW

25 APR 1958
CMLTC-SDI-T

INCLOSURE 1 - To ACCOMPANY LTR ~~CMLCS-T~~

B

Cost Estimate of building new Radiological

Survey Area on Pelham Range

$272,225.00

Cost Estimate of Renovating Radiological Survey Area on Pelham Range

1. Improve existing road net

   Cost: 7 miles at $1,000.00 per mile - $7,000.00 total.

   Justification: A means of movement through the radiological survey area must be provided for proper instruction of ground radiological survey classes. The roads should be so constructed as to eliminate low areas which may turn into mud holes in wet weather. Stuck vehicles greatly reduce the effectiveness of training and also presents a potential radiological health hazard.

2. New sources, 750, average 7 curie

   Cost: $2.00/curie, $10,500.00 total.

   Justification: A means for producing a radiological field is presented by the use of a large number of radioactive sources spread over an area. This radiological field is used in training personnel in the conduct of air and ground radiological surveys. The current radiological training area is approximately 5 years old. Since the radioisotope is Cobalt 60, one half-life of this isotope has decayed, the training area is in need of fresh, strong sources.

   Price authority: Oak Ridge

3. Encapsulation of the new sources

   Cost: 750 at $50.00 each - $37,500.00 total.

   Justification: The radioisotope must be encapsulated to prevent the spread of the radioactive material. The standard charge for encapsulation by the prime contractor of the AEC is $50.00 per capsule

4. Shipping costs of sources

   Cost: $3,000.

   Justification: The shipping cost from the prime contractor is borne by the using agency.

5. New source wells, 750, electrically operated

Cost: $210,625.00.

Justification: The present source wells within the area are hand operated and through rust and corrosion are soon to be inoperative. In order to raise or lower the field for one day's operation, approximately 6 men receive their tolerance dosage. With an electrically operated source well, this problem can be eliminated. A remotely operated source well will also facilitate testing the source capsule for leakage, which is an annual requirement of the AEC.

6. Radio antenna for control center

Cost: $100.00

Justification: The conduct of the radiological survey classes at Pelham Rnage Area 3 depends upon proper radio communication between the control party and the survey parties in the field. Radio communication in this area is difficult under ideal conditions and frequently impossible. The radio antenna would help solve this problem.

7. Covered grand stand stage (12 ft x 12 ft)

Cost: $1,500.00

Justification: A covered grand stand stage on Pelham Range is necessary to facilitate field presentations in connection with the radiological survey exercise. The stage should be covered to protect the map boards and other training aids from the elements.

8. Observation Tower for control purposes

Cost: $1,000.00

Justification: The radiological survey area on Pelham Range presents a health hazard to careless or inattentive students. A means is necessary to keep the entire field under observation to control the radiation exposure received by the student.

9. Heliport near Radiological Area on Pelham Range

Cost: $1,000.00

Justification: With the increased emphasis on aerial radiological survey, facilities must be provided for use in training aerial survey monitors and familiarizing other interested personnel with survey techniques. The existing landing strip on Pelham Range is not entirely satisfactory due to unavailability of that area and distance considerations.

1. Radiological Sources, 750, average 7 curies

Cost: $2.00/curie, $10,500.00 total.

Justification: A means for producing a radiological field is presented by the use of a large number of radioactive sources spread over an area. This radiological field is to be used in training personnel in the conduct of aerial and ground radiological surveys.

2. Encapsulation of sources.

Cost: $50.00/source - $37,500.00 total.

Justification: The radioisotope must be encapsulated to prevent the spread of the radioactive material. The standard charge for encapsulation by the prime contractor of the AEC is $50.00 per capsule.

3. Shipping costs of sources

Cost: $3,000

Justification: The shipping cost from the prime contractor is borne by the using agency.

4. Source wells, 750, electrically operated

Cost: $210,625.00.

Justification: A means is necessary to protect the radioactive source capsule from the elements. It is also necessary to be able to raise and lower the sources so the field will be of negligible radiological hazard for maintenance operations.

5. Build New Road Net (10 miles)

Cost: $20,000.

Justification: A means of movement through the radiological survey area must be provided. The road net is necessary for ground radiological survey classes. The roads should be so constructed as to eliminate low areas which may turn into mud holes in wet weather. Stuck vehicles greatly reduce the effectiveness of training and also presents a potential radiological health hazard.

6. Fencing of Radiological Survey Area

Cost: $2,000.00.

Justification: The AEC places a requirement that radiological fields of this type be surrounded by a fence.

C

Cost Estimate for Doubling Present Area

of Pelham Range Radiological Survey Area

$283,625.00

A

Cost Estimate for repairing existing

Radiological Survey Area on Pelham Range

$38,500.00

Repair Existing Radiological Survey Area

1. Repair Source Wells.

   Cost: $2,500

   Justification: The existing source wells are in increasing need of repair. The original materials of construction are of a non-corrosion resistant type. Rust and other wear and tear factors are making many of the present source wells inoperable. If the Radiological Survey field is going to be used for training in the future, the source wells must be repaired.

2. Replacement of Sources (500 sources, average 7 curie).

   Cost: $7,000

   Justification: There are presently 410 sources contained in 500 source wells within the radiological survey area. The source material, Cobalt 60, has been in the field for approximately one half-life and the survey field is at reduced strength. Fresh sources should be obtained to increase the dose rate levels within the field.

3. Encapsulation of sources

   Cost: $25,000

   Justification: The radioisotope must be encapsulated to prevent the spread of the radioactive material. The standard charge for encapsulation by the prime contractor of the AEC is $50.00 per capsule.

4. Repair of Existing Road Net

   Cost: $2,000

   Justification: At present, impassable spots in the road network hamper survey exercises. The method of road improvement used in the past has proven unsatisfactory on a long term basis. The method used has been to simply fill in the low spot with dirt, with no provision for proper drainage. It is recommended drainage ditches be dug from the low swampy areas and culverts covered by gravel be placed where roads cross these low areas.

5. Shipping Cost of Sources

Cost: $2,000

Justification: The shipping cost from the prime contractor is borne by the using agency.

Cost Estimate for Radiological Branch Facilities

Equipment Needed as soon as possible (See Annex 1 for Cost Breakdown)		$17,031.00
Equipment - long range program (See Annex 2 for Cost Breakdown)		18,121.00
Improve present radiological survey field (See Annex 3 for Cost Breakdown)		276,225.00
Double size of present radiological survey field (See Annex 4 for Cost Breakdown)		280,625.00
Training Aids for 7330 Course (See Annex 5 for Cost Breakdown)		125.50 -
	Grand Total	$592,127.50

ANNEX 1

Equipment Needed As Soon As Possible

	Item	No. Required	Cost Each	Total Cost
STORAGE	1. Staplex Air Sampler	1	$136.00	$ 136.00
STORAGE	2. Large Contamination Vacuum Cleaner	1	200.00	200.00
STORAGE	3. 15' Remote Handling Tool	1	175.00	175.00
INST.	4. Tritium Sniffer	1	485.00	485.00
INST.	5. PAC-3G Alpha Monitor	5	571.00	2855.00
INST.	6. Student Scalers	15	685.00	10275.00
"	7. Slow Neutron Detector	1	645.00	645.00
"	8. Fast Neutron Detector	1	405.00	405.00
"	9. Absorber Kits (Pb & Al)	13	85.00	1105.00
"	10. Short-lived Radioisotopes			500.00
	11. Miscellaneous Items			250.00
	a. Shoe covers			
	b. Gloves			
	c. Polyethylene bags			
	d. Absorbent Paper			
	e. Yellow and Magenta ~~Paper~~ PAINTS			[redacted]
				$17031.00

Prices received from Atomic Associates Inc.

ANNEX 2

Equipment-Long Range Program

	Item	No. Required	Cost Each	Total Cost
HC	1. Continuous Air Monitor	1	$4500.00	$4500.00
INSTR.	2. Portable Sample Analyzer	1	346.00	346.00
HANDLING	3. Remote Handling Equipment	3		500.00
INST	4. Single Channel Differential Pulse Height Analyzer	1	680.00	680.00
INST	5. Twenty channel Analyzer	1	9600.00	9600.00
INST	6. Absorber Kit (Pb & Al)	12	85.00	1000.00
INST	7. Short-lived Isotopes			1000.00
H.C.	8. Multi-rate Meter	1	495.00	495.00
			Total	$18121.00

Items previously programed and are available thru channels

a. IM-93 25 each

b. CDV-720 10 each

c. IM-108 25 each

Priced from Atomic Associates Inc.

ANNEX 3

Improve Present Radiological Survey Field

Improve existing road net, 7 mi at $1000.00/mi Corps of Engineer estimate	$ 7,000.00 ?
New Sources, 750, avg 7 curie, $2.00/curie Oak Ridge price	10,500.00
Encapsulation new sources, 750 at $50.00 each	37,500.00 ?
New source well, 750 electrically operated See Appendix A to Annex 3	210,625.00
Power line from A.O.D. (220V)	5,000.00 ?
New facilities	
Radio antenna (30 ft) for control center	100.00
~~Covered stage 12' x 12'~~	~~1,500.00~~
Bleachers capacity 100	
Available from Post Eng.	
~~Covered shed for Mess~~	~~2,000.00~~
Observation tower for control purposes	1,000.00
Note: These facilities atop Hill 698 west of Rad Area	
Smooth Area 9, Pelham Range for heliport	1,000.00
Total	276,225.00

ANNEX 4

Double Size of Present Field

Build new road net (10 mi at $2,000/mi - CE est.)	$ 20,000.00
New sources, 750, avg 7 curie, $2/curie (Oak Ridge price)	10,500.00
Encapsulation new sources at $50	37,500.00 ?
New source wells, 750, electrically operated See Appendix A to Annex 3	210,625.00
Fence around new area	2,000.00
Total	$280,625.00

ANNEX 5

Training Aids for 7330 Course

1 - AC Wattmeter	$13.00
1 - AC Voltmeter	13.00
1 - AC Ammeter	13.00
3 - Variable Resistors at $5.00	15.00
1 - DC Voltmeter	13.00
1 - DC Ammeter	12.50
2 - Bar Magnets at $3.50	7.00
1 - Steel bar	1.00
1 - 12" glass rod	1.00
1 - 12" hard rubber rod	2.00
1 - Silk Cloth	1.00
1 - Cat's fur	5.00
Pith balls	1.00
1 - Electroscope	25.00
Total	$125.50

Dimensions and Dose Rates of Possible Field Configurations

Uniform field of 7 curie sources

distance between source wells - 15 yds

dose rate at center of field - 780 mr/hr

width of field - 120 yds

length of field - 1400 yds

dose rate at edge of source row - 500 mr/hr

distance to fence from edge of source row - 150 yds

Contaminated field with "hot spot" of 50 r/hr at one end

A. hot spot circle with diameter of 90 yds

source wells within hot spot circle - 5 yds apart

source wells in low dose rate field - 15 yds apart

source strength in hot spot - 40 curies

source strength in low dose rate field - 7 curies

width of entire field -90 yds

length of entire field - 1500 yds

40 curie sources needed - 128

B. hot spot circle with diameter of 90 yds

source wells within hot spot circle - 5 yds apart

source wells in low dose rate field - 15 yds apart

source strength in hot spot circle - 35 curies

source strength in low dose rate field - 7 curie

width of entire field - 120 yds

length of entire field - 700 yds

35 curie sources needed - 420

Appendix A to Annex 3

Cost Estimate (each well)		Price Authority
SW-1	$12.00	Westinghouse Electrical Buyers Guide-1958
SW-2	12.00	Westinghouse Electrical Buyers Guide -1958
SW-4	13.50	Westinghouse Electrical Buyers Guide-1958
SW-5	13.50	Westinghouse Electrical Buyers Guide-1958
SW-6	13.50	Westinghouse Electrical Buyers Guide-1558
SW-7	2.00	Westinghouse Electrical Buyers Guide-1958
SW-8	2.00	Westinghouse Electrical Buyers Guide-1958
SW-9	2.00	Westinghouse Electrical Buyers Guide-1958
SW-10	12.00	Westinghouse Electrical Buyers Guide-1958
Wiring (Conduit & Labor)	50.00	Estimate
Concrete Housing	50.00	Post Engineer
Motor (reducing gear)	75.00	Post Engineer
Raising rod	20.00	Estimate
	$277.50	

Cost of 750 wells = $208,125.00

Instrumentation

Control Room shell - $1,500.00 (Post Engineer)

Installation 1,000.00 (estimate)

$2,500.00

Grand Total = $210,625.00

COST ESTIMATE (Each Well)

SW-1	$12.00	
SW-2	12.00	
SW-4	13.50	
SW-5	13.50	
SW-6	13.50	
SW-7	2.00	
SW-8	2.00	
SW-9	2.00	
SW-10	12.00	
Wiring (Conduit & Labor)	50.00	(Estimate)
Concrete Housing	50.00	
Motor (reducing gear)	75.00	
Raising rod	20.00	
	$277.50	

Cost of 750 wells = $208,125.00

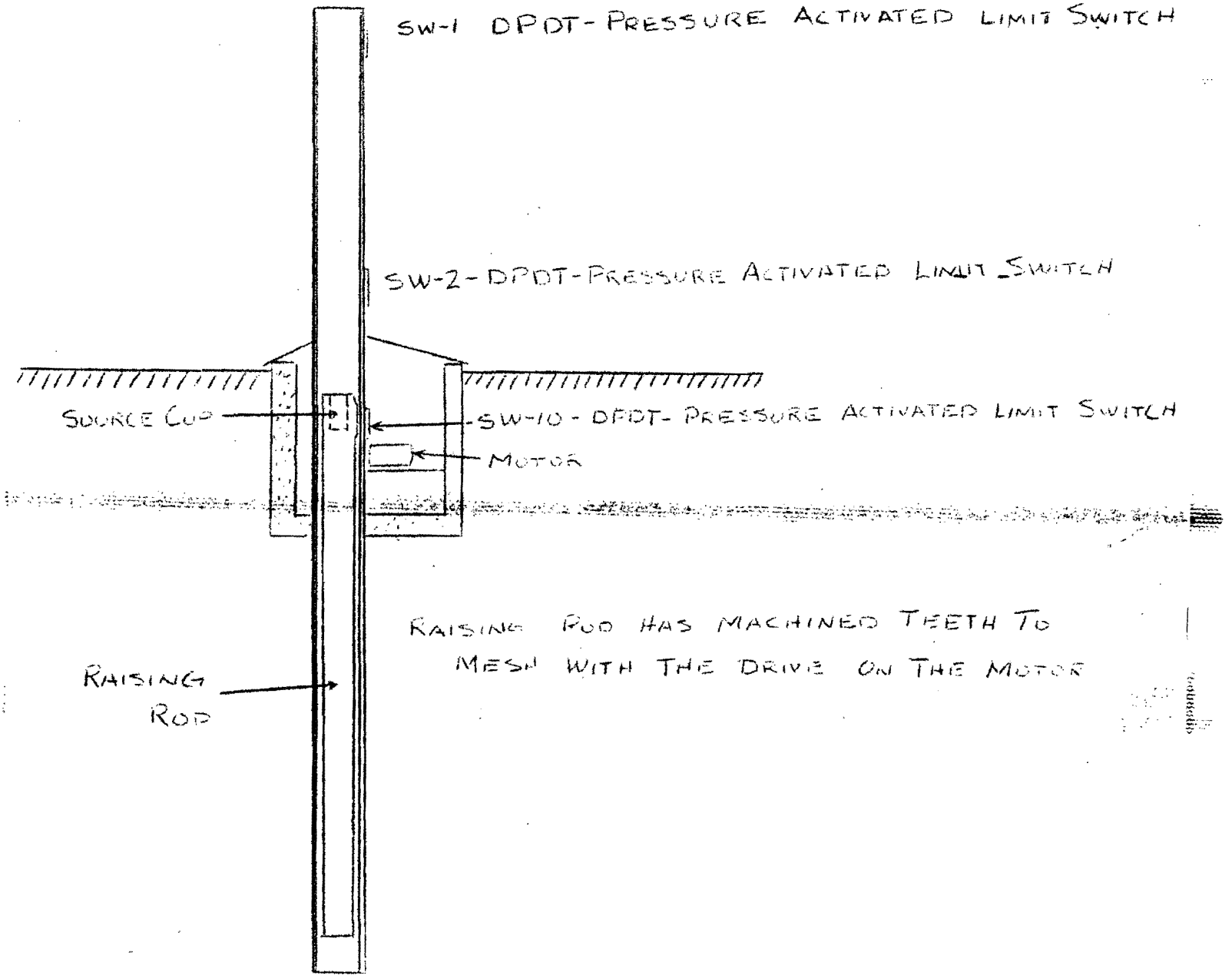
Instrumentation

Control Room shell	-	$1,500.00	(Post Engineer)
Installation	-	1,000.00	(Estimate)
		$2,500.00	

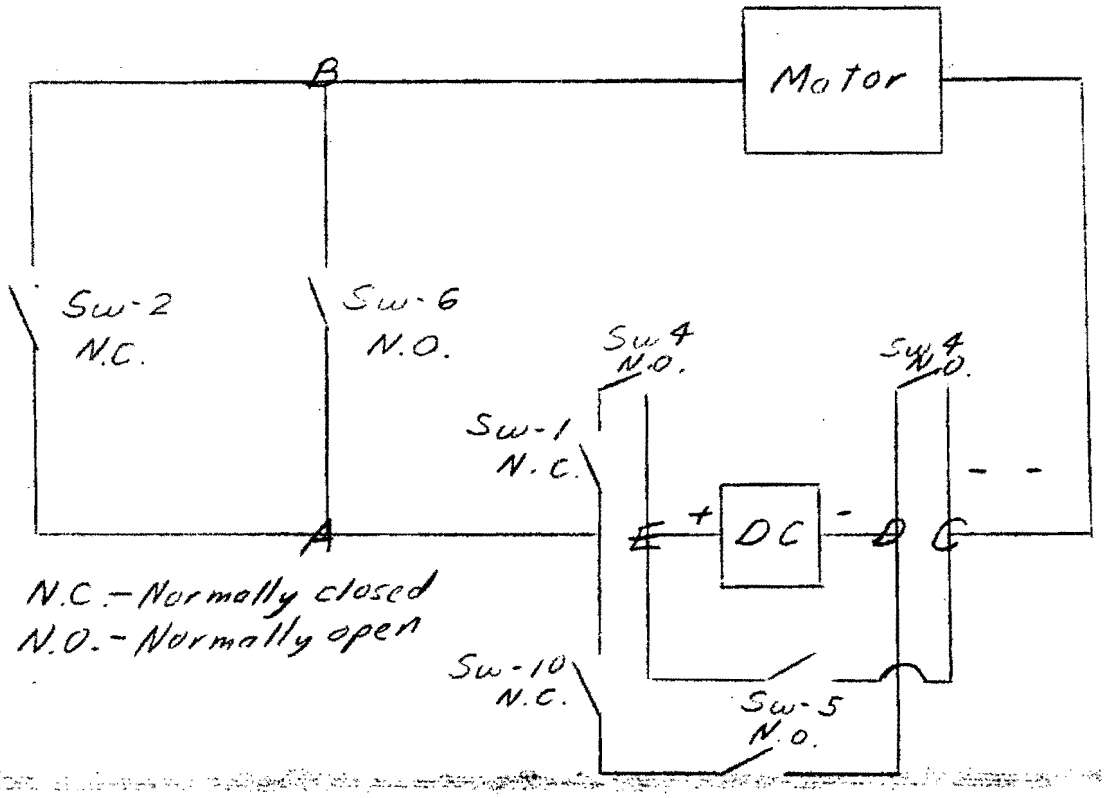
Grand Total = $210,625.00

Inclosure 3

SOURCE WELL ASSEMBLY

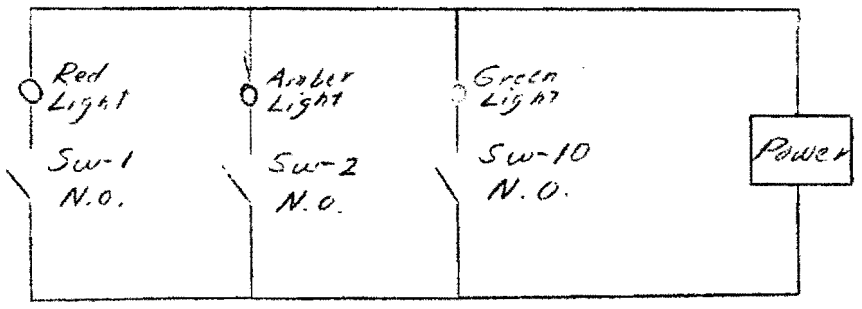


Electrical Circuit - Drive Circuit



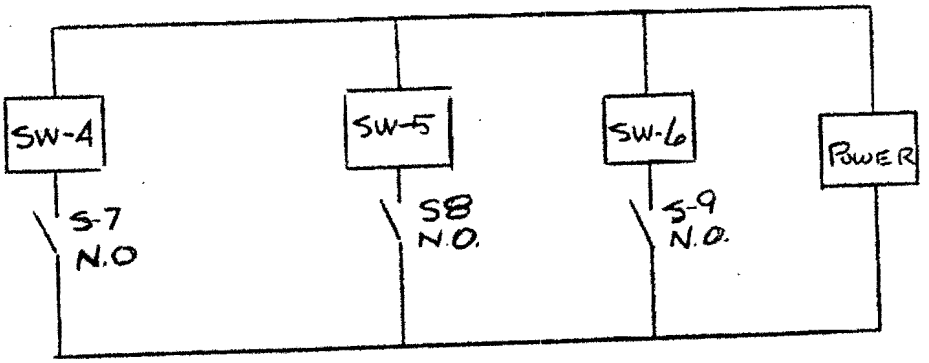
N.C. - Normally closed
N.O. - Normally open

Electrical Circuit - Indicating Circuit



N.O. - Normally open

ELECTRICAL DIAGRAM - CONTROL CIRCUIT



N.O - NORMALLY OPEN

Switch Description

Switch 1 - double pole - double throw - pressure activated

2 - double pole - double throw - pressure activated

4 - double pole - single throw - relay

5 - double pole - single throw - relay

6 - single pole - single throw - relay

7 - single pole - single throw - pressure activated

8 - single pole - single throw - pressure activated

9 - single pole - single throw - pressure activated

10 - double pole - double throw - pressure activated

Switch Purpose

Switch 1 - indicates raised source - stops motor - motor won't go forward

2 - indicates half raised source - stops motor - motor won't go backward

3 - safety switch - stops motor

4 - activates motor - forward (up)

5 - activates motor - backward (down)

6 - by pass switch - by pass switch 1 & 2

7 - activates solenoid for switch 4

8 - activates solenoid for switch 5

9 - activates solenoid for switch 6

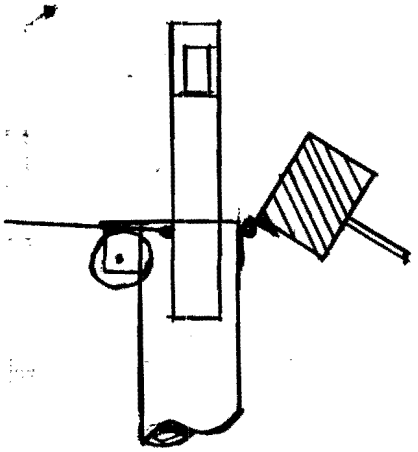
10 - indicates lowered source - stops motor

OLD RAD FIELD (PELHAM RANGE)

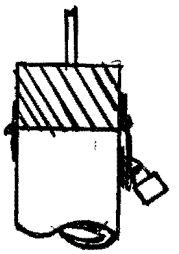
~1959 - 1964

OLD RAD FIELD (PELHAM RANGE)
~1959 - 1964

OLD SOURCE WELL



Open Position



Hinge and Lock for Cap

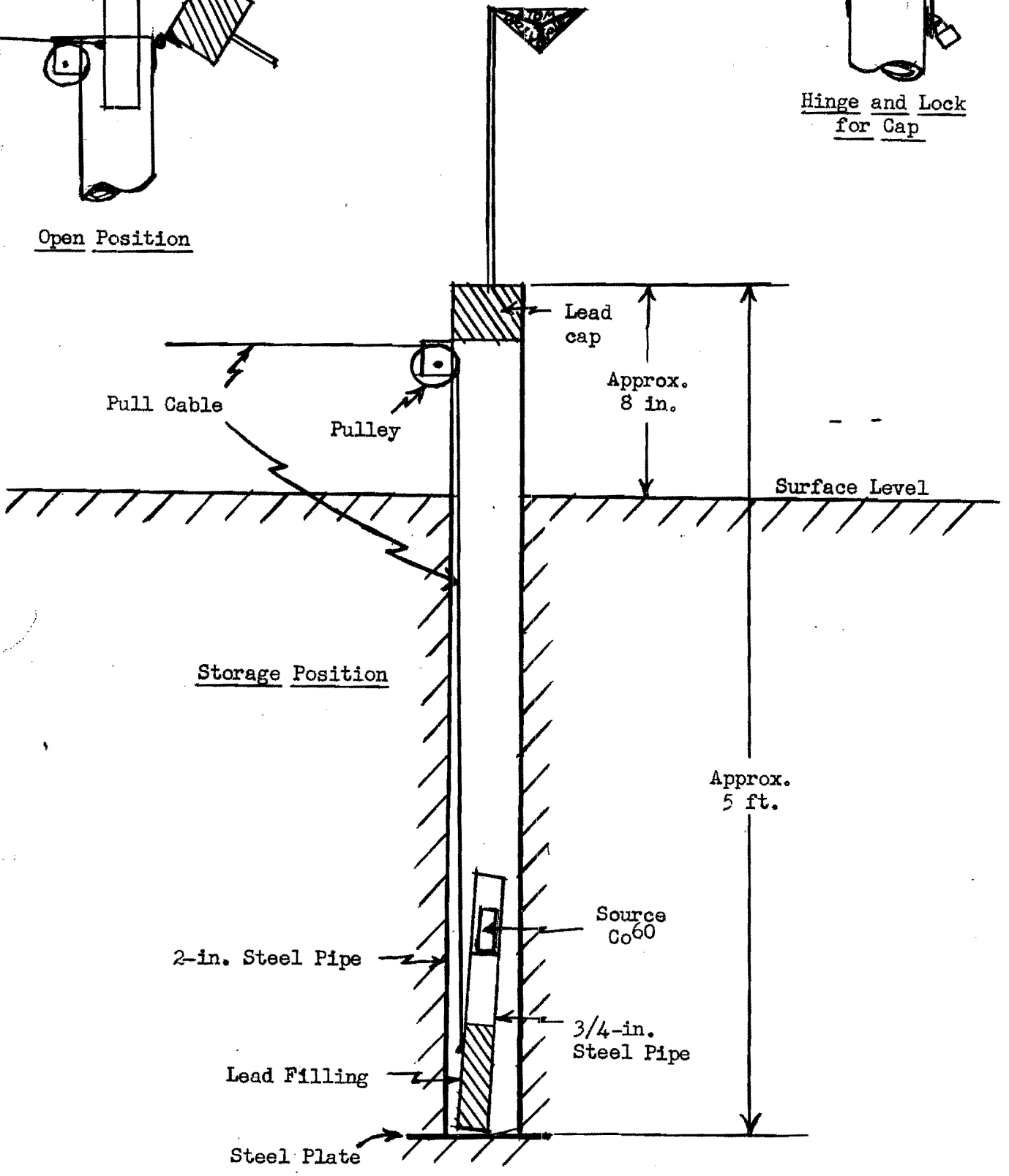


Fig. 1
Source Well in Ground

ROUTING AND TRANSMITTAL SLIP		ACTION
1 TO Col Fair	INITIALS SDF	CIRCULATE
	DATE	COORDINATION
2	INITIALS	FILE
	DATE	INFORMATION
3	INITIALS	NOTE AND RETURN
	DATE	PER CONVERSATION
4	INITIALS	SEE ME
	DATE	SIGNATURE

REMARKS

1. For your signature.
2. This should complete the project except for shipping out the radioactive dirt to the AEC burial grounds. We will accomplish this as soon as possible.
3. Copies of this report will be returned in the HPD office files and one placed in the Library.

GOOD REPORT.
SDF.

Do NOT use this form as a RECORD of approvals, concurrences, disapprovals, clearances, and similar actions

FROM:	DATE
TO: Major Andersen C, HPD	29 July 71
	PHONE 3937

OPTIONAL FORM 41
AUGUST 1967
GSA FPMR (41CFR) 100-11.206

* GPO : 1969 OF—382-929 5041-101

HEALTH PHYSICS DIVISION
U. S. ARMY CHEMICAL CENTER AND SCHOOL
Fort McClellan, Alabama 36201

29 July 1971

IRON MOUNTAIN (RATTLESNAKE GULCH)
RADIOACTIVE MATERIAL BURIAL SITE

Submitted by: Raymond L. Anderson
RAYMOND L. ANDERSON
MAJ, CmlC
Chief, Health Physics Division

Approved by: Stanley D. Fair
STANLEY D. FAIR
Colonel, CmlC
Commandant

TABLE OF CONTENTS

REPORT SUMMARY

On 18 February 1971, Health Physics Division personnel discovered an old burial grounds for radioactive material. The area was formerly known as Rattlesnake Gulch, however, the present name is Iron Mountain. A radiological survey of the area yielded a total of 22 hot spots on the surface of the ground. The survey results and a sketch of the area are contained in Section III of this report.

No records were available at the Chemical School indicating what was buried in this area or when it was buried. Several individuals were contacted who had knowledge of this area. Section IV contains a letter resulting from this contact.

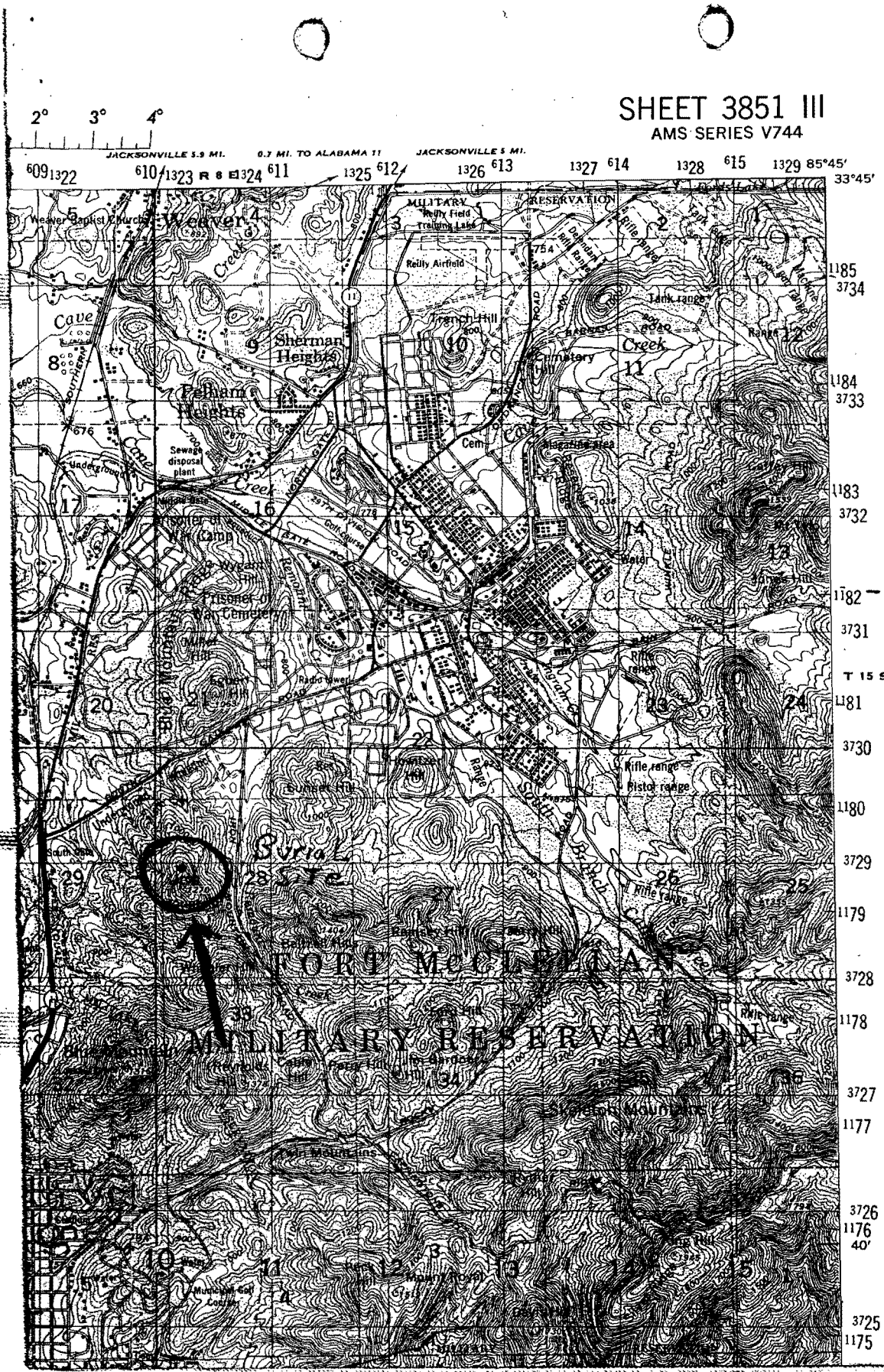
Health Physics Division was given the mission of cleaning up this area and disposing of any radioactive material recovered in accordance with current AEC regulations.

As time allowed, Health Physics Division personnel explored the burial grounds with picks and shovels. Three beach cans filled with rad lab waste were uncovered. In addition, two lead cylinders were recovered containing quantities of cesium 137 and strontium 90. The earth in the vicinity of these containers was contaminated. Eighteen 55 gallon drums of contaminated dirt were removed.

On 19 July 1971, a back-hoe was used to trench the area to be sure all radioactive material had been recovered from the site. By 23 July, the trenching was completed. On 27 July, a bulldozer filled in the trenches. A health physics survey of the area failed to reveal significant surface contamination remaining. The fence around the area was removed and the area closed out.

The recovered material will be disposed of in accordance with AR 755-15. A copy of this report will be on file in the Chemical School library and one will be retained by the Health Physics Division.

II. MAP OF FORT MCCLELLAN AREA


SHEET 3851 III
AMS SERIES V744
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0.7 MI. TO ALABAMA 11
JACKSONVILLE 5 MI.
85°45'
33°45'
MILITARY RESERVATION
Reilly Field
Reilly Airfield
Weaver
Sherman Heights
Pelham Heights
Cave Creek
Prisoner of War Camp
Prisoner of War Cemetery
Burial Site
FORT McCLELLAN
MILITARY RESERVATION
Rifle range
Pistol range
Tank range
Water
Cemetery Hill
Ranch Hill
Bynum Hill
Sunset Hill
Parker Hill
Mount Hood
Golf Course
Municipal Golf Course
Sewage disposal plant
Underground
Radio tower
Range
T 15 S
1185
3734
1184
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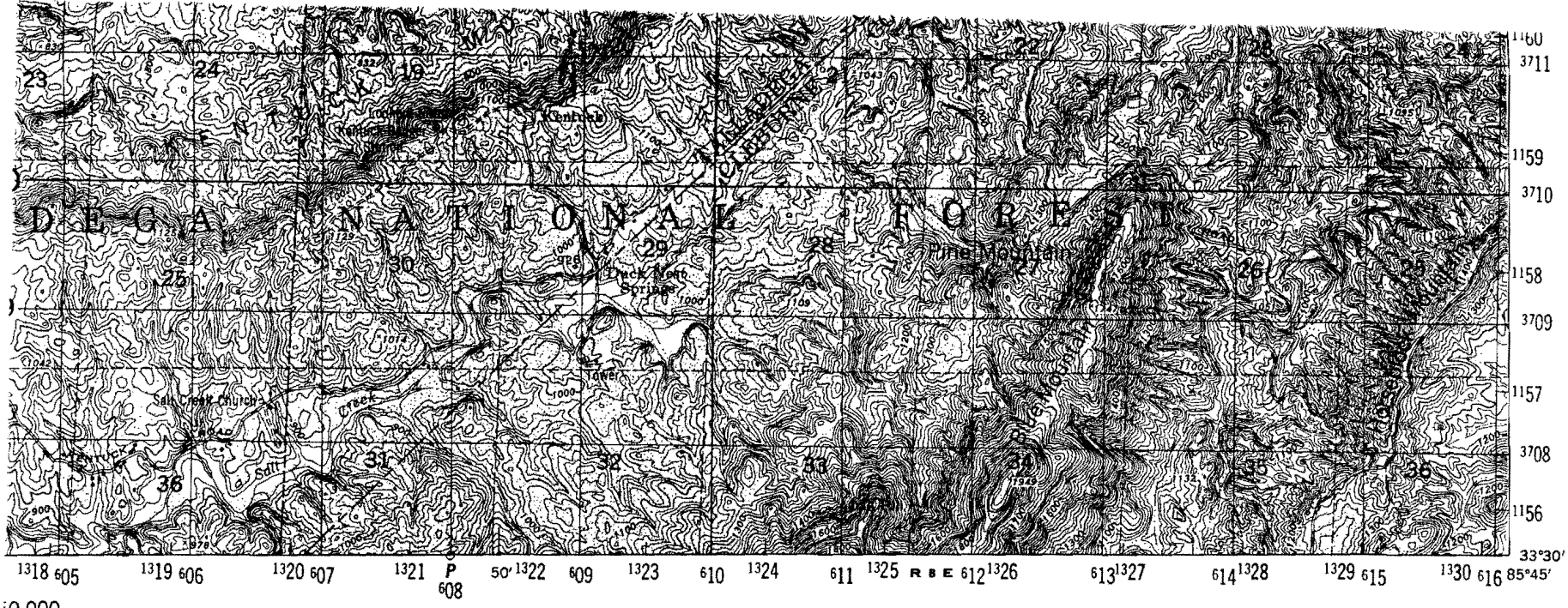

50,000

2 3 Miles

2000 3000 4000 Meters

2000 3000 4000 Yards

RVAL 20 FEET

EAN SEA LEVEL

ATOR PROJECTION

RICAN DATUM

1,000 METER UNIVERSAL TRANSVERSE

IID, ZONE 16

DE THE NEATLINE INDICATE

YCONIC GRID, ZONE C

E GRID NUMBERS ARE OMITTED

TO MARK HEREON AND FORWARD DIRECTLY TO COMMANDING
FORWARDED WILL BE RETURNED OR REPLACED IF DESIRED.

TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 100 METERS		
POINT, STADIUM		
first VERTICAL grid line to LEFT of nd read LARGE figures labeling the her in the top or bottom margin, or line itself:	09	
e tenths from grid line to point:	3	
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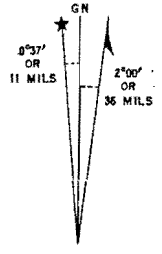
REFERENCE:	093258	
orting beyond 100,000 meters or if sheet an overlapping grid, prefix 100,000 Square Identification, as:	FN093258	
rting beyond 18° in any direction, prefix		

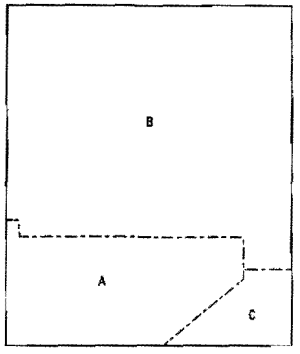


APPROXIMATE MEAN DECLINATION 1950
FOR CENTER OF SHEET
NO ANNUAL MAGNETIC CHANGE

Use diagram only to obtain numerical values. To determine magnetic north line, connect the pivot point "P" on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on

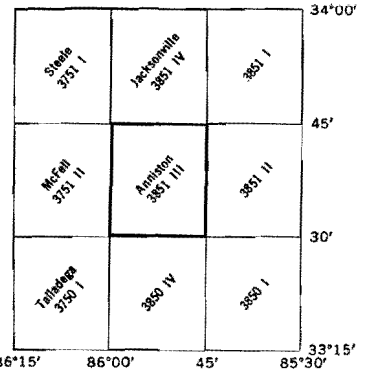
PRINTED BY ARMY MAP SERVICE, CORPS OF ENGINEERS, 3-52, 109998

INDEX TO BOUNDARIES



A. Talladega County
B. Calhoun County
C. Cleburne County

INDEX TO ADJOINING SHEETS



Sheet 3851 III falls within NI 16-9,
AMS V501, 1:250,000

ANNISTON, ALABAMA

III. HEALTH PHYSICS SURVEY RESULTS

DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is The Adjutant General's Office.

REFERENCE OR OFFICE SYMBOL	SUBJECT
ATSCM-H	Memo for Record - Iron Mountain Burial Site

TO | FROM C, Health Physics Div | DATE 22 Feb 1971 | CMT 1

1. This memo is to document the events surrounding the discovery of the Iron Mountain (Rattlesnake Gulch) radioactive material burial site. The location of this site is: Coordinates 103290, ref: Map - Anniston, sheet 3851 III, series V744, scale 1:50,000.

2. On 18 February 1971, SFC Pryor, SSG Truffa, and myself, decided to check an area for possible radiological contamination. This survey was undertaken due to rumors about an old burial grounds and also due to some references to this area on some old dosimetry records in the Health Physics Division files. No other records pertaining to this area could be found anywhere at the Chemical School. The general location of the area in question was thought to be in a gully behind the biological field sampling area off Summerall Gate Road. After surveying a sizable portion of the area, I finally found the area in question. It is on the side of a mountain, not in a gulch. The area is about 140 feet long and 80 feet wide. It is enclosed with a hog wire fence topped with 3 strands of barbed wire. There is a gate in the fence and radiation warning signs located every fifty feet along the fence. Inside this fence, there is another fence made of barbed wire. A quick survey of the area revealed at least six (6) hot spots with the highest reading being 5 mr/hr. Upon returning to the Chemical School, I informed LTC Habermehl of this event. He said he would pass the information on to the Asst Commandant, Col Startt. As far as guidance as to what action should be taken, I was instructed to retain this information within the Health Physics Division for the time being.

3. On 19 Feb 71, members of the Health Physics Division returned to the Iron Mountain site to make a detailed survey of the area. The equipment used included two AN/PDR 27s, two E-510s, one AN/PDR-60, plastic bags, tape, tongs, shovels, and a film badge and dosimeter for everyone. The area was divided into six sections for the survey. A total of 18 hot spots were found on the surface of the ground. The highest reading was 5.5 mr/hr. At this spot a hole was dug to a depth of about one (1) foot. The reading at about the six (6) inch level was 22 mr/hr and then decreased as the hole was made deeper. Numerous samples were taken throughout the area. These included soil, leaves, and bark from the trees in the area. Samples were also taken from the area outside the fence. Most of the samples were hot, however we did not get a sample that was hot enough for use in the single channel analizer. We suspect that the radioactive material in the area is cobalt 60 or cesium 137. These results were reported to LTC Habermehl, DOI, who in turn was to inform the Asst Commandant. He said that no decision had been made as of yet as to what to do about this area. Health Physics Division personnel are going to make another survey of the area. This will entail digging numerous holes to insure that no large containers of radioactive material are buried in the area.

Raymond L. Anderson

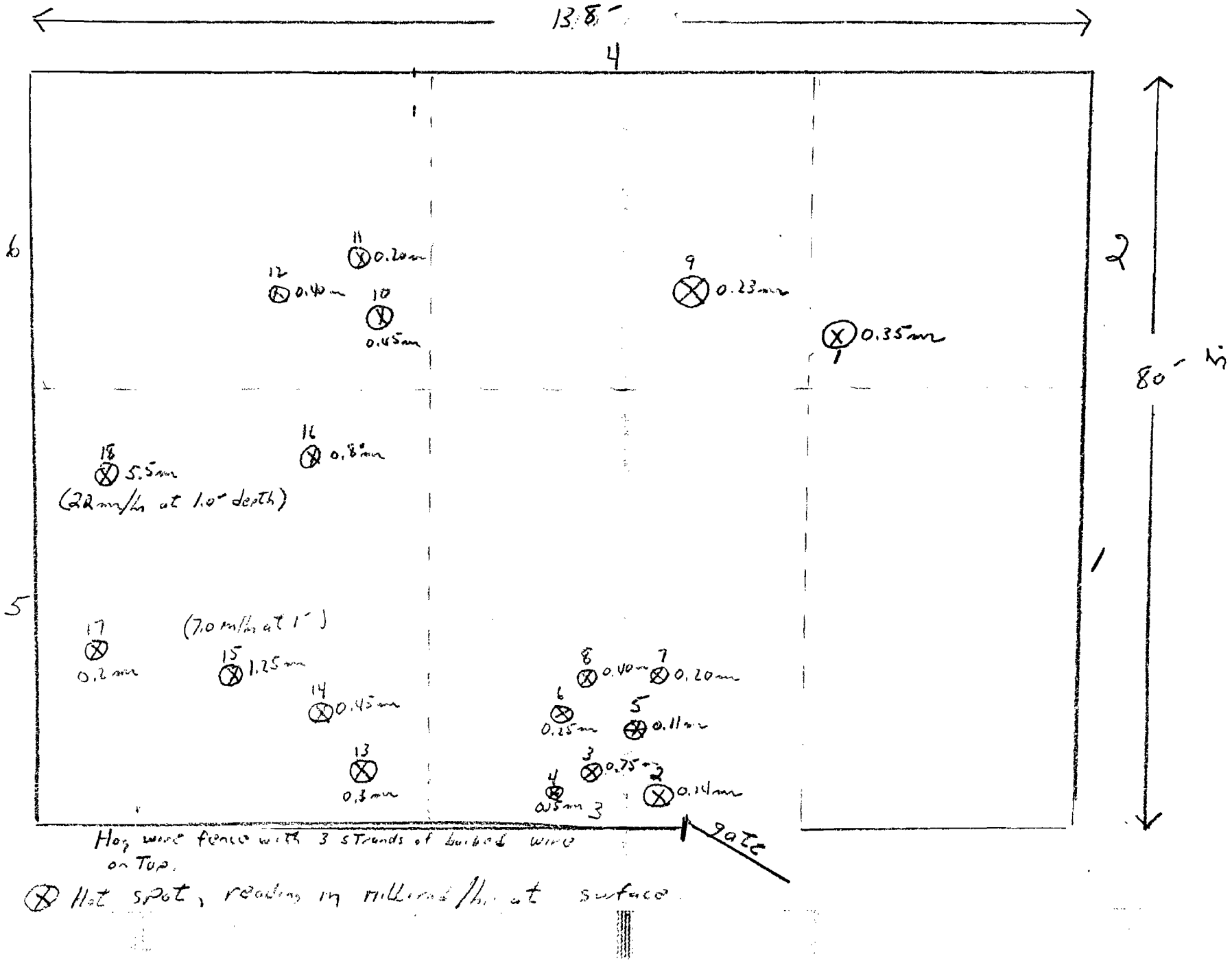
RAYMOND L. ANDERSON
Major, CmlC
C, Health Physics Div

4.

Rattlesnake Ridge (Jim Hamilton) Site

Coordinates 103 240

Map: Anniston, sheet 3851 III
series 0704
Scale 1:50,000



Health Physics Survey Worksheet — Survey #_____

From Mountain

~~(Alpha Field~~ Survey)

Date 19 Feb 71

Wipe Number	Plate Number	Location	Gross Count	Background	Net Count	DPM	Microcuries
1	—	1	47	26	21	249	1.12×10^{-4}
3	—	3	58	26	32	379	1.71×10^{-4}
6	—	6	26	26	0	0	0
8	—	8	24	26	0	0	0
9	—	9	37	26	11	130	5.87×10^{-5}
10-1	—	10-1	36	26	10	118	5.34×10^{-5}
10-2	—	10-2	32	26	6	71	3.20×10^{-5}
16-1	—	16-1	52	26	26	308	1.39×10^{-4}
16-2	—	16-2	33	26	7	83	3.73×10^{-5}
16-3	—	16-3	52	26	26	308	1.39×10^{-4}
16-4	—	16-4	52	26	26	308	1.39×10^{-4}
18-1	—	18-1	34	26	8	95	4.26×10^{-5}
18-2	—	18-2	68	26	42	498	2.23×10^{-4}
18-3	—	18-3	52	26	26	308	1.39×10^{-4}
18-1-1	(6" under surface)	18-1-1	240	26	214	2525	1.82×10^{-3}
18-1-2	(6" under surface)	18-1-2	116	26	90	1068	4.8×10^{-4}

Ft McCl Fm 444-R
(20 Nov 70)

Performed by: R2C

Health Physics Survey Worksheet Survey #_____

From NevTest

(~~Alpha Field~~ Survey) Date _____

Wipe Number	Plate Number	Location	Gross Count	Background	Net Count	DPM	Microcuries
18-1-3		18-1-3	124	26	98	1163	5.23×10^{-4}
15-1	(1st depth)	15-1	38	26	12	142	6.41×10^{-5}
15-2	(2nd depth)	15-2	35	26	9	106.8	4.80×10^{-5}
15-3	(3rd depth)	15-3	36	26	10	118	5.34×10^{-5}
15-4	(2nd depth)	15-4	40	26	14	165	7.47×10^{-5}
15-5	(2nd depth)	15-5	56	26	30	355	1.60×10^{-4}

Ft McCl Fm 4461-R
(20 Nov 70)

Performed by: R2a

DISPOSITION FORM

For use of this form, see AR 340-15; the proponent agency is The Adjutant General's Office.

REFERENCE OR OFFICE SYMBOL	SUBJECT
ATSCM-H	Iron Mountain Site - Memo for Record

TO Record File | FROM | DATE 23 Feb 71 | CMT 1

In an effort to find individuals who had knowledge of the Iron Mountain Burial site and specifically what activities occurred there, a Mr. Philip W. La Vie was contacted by phone. He had formally worked in the Health Physics Division during the late 1 90s and early 60s. He is presently employed at the Norfolk Naval Shipyards (phone # 561-0111 ext 5886). The information recieved from Mr. La Vie reveals that this area was used in past times as a radiological training area. A Hot Cell had even been constructed out there. It was made of sand bags and a bromine window and utilized steel rods as manipulators. A burial grounds was established to dispose of waste from the radiological laboratories. Items were put in bleach can and buried at a depth of 6 to 8 feet. Materials buried included Co 60, thalium, radium 226, plus others he could not remember. In XXX 1960 upon returning to the Health Physics Div after an overseas tour of duty, Mr. La Vie inquired as to what ever became of Rattlesnake Gulch (Iron Mountain.) He was told by the Health Physics Officer a Major Corky Colgin, that the radioactive material buried there had been partially removed, Mr. La Vie got the impression that the subject of this area was not to be discussed and the whole subject was treated as a "hot potato".

A report was recieved from Mr. Corky Colgin via his wife who is employed at the USACMLCS. The report was not very useful. It consisted of confirmation that the area had been used for radiological activities but no details were provided. After XXXXX confiring with Col Ladson, Commandant of the USACMLCS, he made the decision that whatever material was still at the burial site should be recovered, packaged properly, and shipped out of Fort McClellan for burial. HPD was given this task and given the instructions to handle it in a discrete manner.

In order to get information as to what might be buried at the site, I wrote a letter to LTC Powell, then stationed in Korea, requesting any information he might have concerning this matter. He had been assigned to the Radiological Division during the time the activities in question were occurring.

Raymond L. Anderson

RAYMOND L. ANDERSON
Major, CmlC
C, Health Physics Div

8.

ROUTING AND TRANSMITTAL SLIP		ACTION
1 TO ~~Col Lapp~~	INITIALS	CIRCULATE
	DATE	COORDINATION
2 ~~Col Hart~~ JAS	INITIALS	FILE
	DATE	INFORMATION
3 Major Anderson	INITIALS	NOTE AND RETURN
	DATE	PER CONVERSATION
4	INITIALS	SIGNATURE
	DATE	

REMARKS

1 - Noted. Pl. continue with your other Tasks. Cmdt. has been informed ASAP.

2 - For your information.

3 - So far HP Resident Moved only two (2) drums of material from area in question due to weather and work at Rideout Field. Try to clean up after Resident Field work is finished.

3. We have ordered 35 specification containers to package the waste material we dig up.

4. Project is now at a standstill until we finish loading Rideout Field.

Do NOT use this form as a RECORD of approvals, concurrences, disapprovals, clearances, and similar actions

FROM	DATE
Maj. Anderson C, Health Physics Div	9 Mar 71
	PHONE 3537

OPTIONAL FORM 41
AUGUST 1967
GSA FPMR (41CFR) 100-11.206

* GPO : 1969 OF—352-829 5041-101

IV. LETTER FROM LTC POWELL, FORMER CHIEF, - - RADIOLOGICAL DIVISION, USACMLCS

ATSCM-H 24 February 1971

LTC William G. Powell
Nuclear-Chemical Opns Div, G-3
HQ, 8th U. S. Army
APO San Francisco 96301

Dear LTC Powell:

This letter is a request for information about an area on Fort McClellan that was once used as a radiological training area and as a disposal area for radioactive waste. The location is shown on the attached portion of map. I believe this area was formally known as Rattlesnake Gulch and was in use sometime during the time frame 1952 to 1960.

I rediscovered this area in February of this year. The area sits up on a hill and is surrounded by a fence with radiation warning signs on it. A survey of the area revealed at least eighteen (18) "hot" spots, the highest being about 22 millirad/hour.

Upon reporting this discovery to the front office, COL Ladson started at once to search for individuals who had knowledge of what type materials were buried there, how they were packaged, how they were buried, and whether or not the material originally buried was ever removed and shipped to another disposal site. No records at the Chemical School contain any information about this area. COL Ladson has already interviewed Mr. Roy Hirano, Mr. Ed Bradley, Mr. Hail and Mr. Moore. They did not provide much information of any value. COL Ladson also contacted a Corky Colgin and gained some information. I talked to a Mr. Philip LaVie who was formerly a member of the Health Physics organization at the School. This conversation was fruitful, however, Mr. LaVie did not know what ever became of the material that was disposed of at this site. The key questions now to be answered are: 1) what and in what approximate quantities was disposed of at this site, 2) how was the material buried, that is at what depth, and 3) was the material ever dug up and moved elsewhere?

ATSCM-H
LTC William G. Powell

24 February 1971

COL Ladson has tasked the Health Physics Division with cleaning this area up so that it is safe and will no longer be a "radiation area." Before tackling this task, we need information as to what we might be getting into. On behalf of the Commandant and the Health Physics Division, I sincerely request that you provide us with any information you might have regarding this matter.

Sincerely,

RAYMOND L. ANDERSON
MAJ, CmlC
Chief, Health Physics Division

P. S. SSG Bart Truffa, formerly of this Division, is on his way to Korea. Look him up and he can fill you in on the latest news at the USACMLCS.

11.

Pardon the hand written note, but typing assistance is at a premium over here. If you can't read this all I am sure Alice Noll or Ed Bradley can translate.

LTC William C. Powell
Cml Br ASW Div G3
HQ Eighth USArmy
APO 96301
6 March 1971

Dear Maj Anderson

The Rattlesnake Gulch area south of Summerall Gate road was in use as a training area in 1954 when I first became acquainted with it. From your description the fence separating it from the big Training area on the east and another Training area to the west you have it pretty well pegged. The area had about a dozen pipe type source wells with 0.5-2 curies of Cobalt-60 when I was there. Col Carrol tells me that before 1954 there were some pigs used with strings to suspend sources from a valley above them.

There was a radioactive waste burial point near the top of the

hill about where you have the dot on your map 103290. From what I was told and from what I put in there myself the waste consisted of: a. towels, plastic and other laboratory junk from the scaler lab. b. Tantalum-(?) with a half life in the order of 100 days. The Tantalum was purchased around 1952 for a field decon test but couldn't be used because there was no way to pick it up again after one dropped out the pellets from the bubble gum type dispenser shield. Therefore this stuff sat around and disentegrated (pellet to powder) and decayed. In about 1953-56 we cleaned out the pig and put the residual tantalum in a bleach can and buried it in this area about 6' down. c. There may be some cobalt-60 waste from encapsulating operations buried in this area but I do not recall ever putting any there.

Black cans were the container for all waste put in the area while I was there. This area had its own little bark wire fence and was so marked as a waste burial point. The Engineers post hole digger was frequently used to dig our holes.

--

Another activity took place in this area was cobalt encapsulating. This was done I would guess in the vicinity of 102 295, or about one quarter of the way up the hill on the center road (which you probably can't find now) and to the east near the bio area fence. The hot cell consisted of cement block many sand bags, 2' thick water window etc. This area is probably still identifiable from the sand bag residue, This area should be clean (and all source wells)

The waste disposal area I was told was moved to the Pelham Range

Ridout field area about 1959 and then a few years later the whole mess was dug up and moved to Oak Ridge for burial in an AEC burial pit. If these hot spots are located relatively close together 10-20' in the area indicated I would suspect that you have the old burial ground. If you dig and find black cans then the burial ground was not moved, at least not totally. If the area in nearer Summerall gate road as the old hot cell was then nothing is buried but you may be finding some contamination that was missed in that clean up. In either case you should not encounter very high dose rates unless there was some cobalt-60 scrap (ruptured capsules 5/8" x 3") put in there around '58-'59.

Considering the 10 yr elapsed and the isotopes concerned Co-60 Sr 90 Cs 137 and perhaps tantalum is probably your isotope. Sr 90 was used in Lab but in very small

quantities. There were some leaking Cs 137 crystals encountered in this time frame but this doesn't seem likely either. I would guess on what you would find I would expect that some Co-60 contamination will be found in the dirt of the old burial area, or the whole burial ground cans and all is still there, Happy digging.

At the moment I am finishing up my CGCS subcourses and have filed a letter of intent to attend Phase X at Lexington ky on 13-26 Jun. I hope to take a couple weeks leave at this time and if you think I can be of any further help would be glad to come down for a day. SSG Truffe wrote me that he was leaving CONUS on 26 Feb. I have AG looking for him - seems he hasn't got here yet. I plan to assign him to my office to work in a team, RADCON Team and CBRT by area.

V. DAILY ACTIVITY LOG

Memo for record. 1 March 1971

SP4 Dahlman, SFC Pryor and Major Anderson went to the Iron Mountain Site this morning. Upon arriving at the site, a road was cut from a fire break into the disposal area. Next, the exploration of hot spots on the surface were explored. Points 15 and 16 was worked on first. The hot spot at point 16 was pretty well cleaned up, but point 15 seems to be getting hotter as the digging proceeded. After removing a considerable amount of dirt, the readings were still 2.5 mr/hr. Full drums of contaminated dirt were removed to the Waste Storage Yard behind Lab W.

6 March 71

A letter was recieved today from LTC Powell, former Radiological Division Chief. He was replying to the letter I had sent him previously. His reply indicated that the site in question had been used as a radiological training area during the period 52-56. A burial point was located near the top of the hill near coordinates 103290. The stated that the material put there included laboratory junk from the scaler lab, tantalum buried in a bleach can. He also thought that some Co 60 and Cs 137 had been buried there.

15 April 71

During March, the Helath Physics Division installed approximately 440 radioactive sources in Rideout Field so no work was done at the Iron Mountain Site. Today SP5 Dahlman and Major Anderson went to Iron Mountain and continued digging at point 15. Approximately one 55 gallon drum was filled with hot dirt. The area is still "hot".

20 April 71

Major Anderson, SFC Pryor, SP6 Roberts, and a PFC Perry (Fld Sup Co), went to the site. Digging at point 15 continued. Area is still hot. Major Andersc dug at point 14 and uncovered three bleach can full of lab junk. The three bleach cans were buried at a depth of about six (6) inches only. Digging started at point 18. Area is still hot. Three 55 gallon drums of hot dirt and the bleach cans were recovered today.

After having a conversation with LTC Black and Col Ladson, it was decided that Col McKean, the Post Commander, should be told of the find on Iron Mountain. In the meantime HPD was to continue working at the site in a quiet manner.

MEMORANDUM FOR RECORD: 23 April 1971

TO: Chief, Health Physics Division
USACMLCS

SUBJECT: Radiological Materials

1. The matter of the Rattle Snake Gulch radiological materials was discussed this date with Colonel McKean. He was informed that the material would be further investigated and packaged for shipment and ultimate disposal. He agreed that this should be done quietly and without "fanfare" as a routine disposal matter.

2. Health Physics Division is hereby given the responsibility for the packaging and shipment. This should be done inhouse and without assistance from Post Headquarters unless heavy equipment is needed, in which case, permission to request the equipment should be obtained from the Commandant or Assistant Commandant.

Robert N. Ladson

ROBERT N. LADSON
Colonel, CmlC
Commandant

23 April 71

SFC Pryor and SP6 Roberts worked at the burial grounds today. They explored several hot spots. Most of them were removed with little digging required. They seemed to be mainly surface contamination. Points investigated include points # 13, 8, 6, 5, and work started on points #1, 7, and 9. There is still some work to do on point 13.

27 April 71

Major Anderson and SP5 Hunter worked at the site today. Work resumed at point 15. Two drums of radioactive dirt were removed. A metal container was recovered. It was about 3" in diameter and 8" long. The surface contact readings was 35 mr/hr. One end of the contained appeared to be open. Samples were taken to the lab for analysis. They proved to be Cs 137.

19 May 71

Major Anderson and SFC Pryor went to work at the site today. SFC Pryor and SP6 Roberts worked there yesterday. A trench was dug connecting points 15 and18. Not much was found. The bottom part of point 15 was enlarged and a vein of red clay followed. This vein was hot. The highest readings were 8 mr/hr. All the red clay was dug out until the readings dropped to normal background. We have no explanation as to why the vein of red clay was hot other than that the Cs 137 from the previously found container had leaked into the soil and been absorbed by the clay. Work continued on point 17. Nothing was found at this location yet. Preliminary work started in the vicinity of points 10, 11, and 12. Nothing found yet at these locations.

20 May 71

Points 2, 3, 3, and 7 were cleared today by SFC Pryor and SP5 Hunter. Only surface contamination was found. At point 12, a hot spot has been found. Red clay was found about 18 inches under the surface. Highest reading was about 3 mr/hr.

2 June 71

Major Anderson went to the site for a short while today. Work continued at point 12. A tree in the middle of this area was dug out by the roots since the readings seemed to be the highest under the tree. Not much was found. The contamination seems to have been cleared up. Still have to explore further points 10 and 11.

21 June 71

SP6 Roberts, SFC Pryor and Major Anderson went to the site to work today. They worked on points 10, 11, and 12. Only surface contamination was found. Work continued on point 15. Major Anderson found a small lead

pig at about the 5 foot level. Contact readings were 55 mr/hr. The area around the pig was hot. Quite a bit of dirt was dug up. Readings were still 1.8 mr/hr in the area being dug out. More work was done on point 18. Only surface contamination was found. At least six drums were loaded with radioactive dirt. The heat in the afternoons makes working on the mountain very miserable.

22 June 71

SP5 Hunter, SFC Pryor and Major Anderson worked at the site today. Digging at point 15 continued. Still digging deeper. At the 6 foot to 7 foot level an iron rod was found. It was about 15 inches long but was not attached to anything. Readings in the hole varied from 1.0 mr/hr to 1.5 mr/hr. We cannot locate the source of the readings. The hole is at least 8 feet deep now.

23 June 71

Mr. Bradley and CPT Quinn from the Radiological Division accompanied SP6 Roberts and Major Anderson to the site today to look over the situation. Major Anderson suggested that trenches be dug throughout the area with a ditch digger to see if any "hot" items can be recovered. Working by hand will be discontinued. Once the area is trenched and any hot objects removed, the area is to remain marked as a "restricted area due to radioactive contamination and the area reported to the Range Division at Post so the area can be recorded in their records. HPD will continue to observe the area to see that the fence is maintained and the fire break kept in good shape. The fence will be marked with radiation warning signs. Mr. Bradley concurred with this suggestion.

25 June 71

HPD personnel went to the site today and brought back to the storage yard eight partially full drums of radioactive dirt.

28 June 71

Major Anderson talked with LTC Black about the site and recommended that ditch digging equipment be requested from Post Engineers. General situation was discussed. He will talk to Col Ladson. LTC Black is leaving the school in a couple of days. Col Ladson is due to leave in July also. The situation is to be discussed with Col Fair, the new Commandant when he takes over.

16 July 1971

Major Anderson briefed Col Ladson and Col Fair on the situation at Iron Mountain. Permission was requested from Col Ladson to use a ditch-digger at the site. This request was granted with the guidance that the operator of the equipment was to be a military man. After this, Major Anderson contacted LTC Bauer, CO, 2d Cml Bn about getting the necessary equipment and help. He in turn contacted LTC Warden the Post Engineer. In the afternoon, CPT Crawford, CO, Co.D, 83d Engineer Bn, arrived at the Health Physics Division to coordinate the necessary support. A Ford back-hoe would be used and SSGT Blackburn would be the operator. Col Ladson was again contacted and informed of the arrangements. He immediately notified Col Hines, Deputy Post Commander of what action was being taken. After this, the final approval to proceed was given.

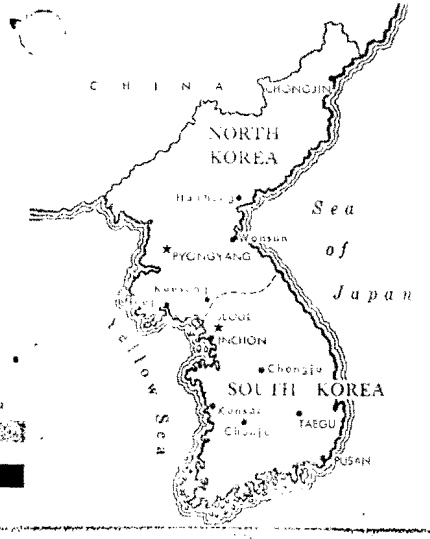
23 July 1971

The back-hoe from the Engineer Company started to work at the site today. A power saw was used to remove trees that were hindering the digging. The area is to be trenched with trenches 5 to 6 feet deep and about 6 feet apart. Health Physics Division personnel were to be on hand during the digging to monitor the area and recover any objects dug up. On 20 July, a trench between points 15 and 7 yielded an old actuator assembly. It was the type with a pulley on top. A large area was dug up between points 15 and 16. About a dozen concrete blocks were dug up and a large quantity of sandy soil that was different from the surrounding soil. It is thought that this material might have been used in the walls of a hot cell that was reportedly constructed in this area. The sand and surrounding soil was slightly contaminated with radioactive material. The radiation intensity was around 1 mr/hr. This was the only contamination uncovered during this week of digging. On 23 July, the digging was completed. On 27 July, Post Engineers provided a bulldozer to back-fill the trenches. Once the area was recovered, a health physics survey was conducted. No contamination was found on the surface. The fence surrounding this area was then removed by the dozer and buried.

A total of 18 drums of low level contaminated dirt was removed from the burial site. In addition, three bleach cans full of lab waste and two lead containers containers filled with radioactive material were recovered. This material will be disposed of in accordance with AR755-15.

The bulldozer operator who filled in the trenches at the site, told SFC Pryor that he had worked in this same area 12 or 13 years ago. They had dug the area up and all the radioactive material they had recovered was taken to Rideout Field and placed in the burial grounds that are maintained there at the present time.

LTC Powell
G3 HQ EUSA
APO 96301



U.S. AIR MAIL 10c

Maj Raymond L. Anderson
Chief Health Physics Div
US Army Chemical Center & School
FT McClellan Ala 36201

VIA AIR M.

ATZN-CM-AHP 22 Jan 85

MEMORANDUM FOR LTC JAMES

SUBJECT: Radioactive Material Disposal Site

1. Today I visited a reported disposal site (FN934325) on Pelham Range with Mr. Fred Gann, DEH and Mr. Bill Pittman, Env Mngt Officer. Mr. Gann has been with DEH for 34 years and was a truck driver in his early years. He remembers delivering three or four truckloads of contaminated dirt to a site near Rideout Hall from a waste storage area just off Summerall Gate Road. Mr. Gann stated that sometimes he and the other drivers had to wait until enough dirt was added to the truck to reduce dose rates in the cab (<2 mr/hr?). The dirt was placed in a trench and back filled, mounded, and fenced. When we got to the site, the area was essentially undisturbed except that a tank had driven over one end of the mound. I got no readings with an Eberline 520 fitted with a pancake probe on that end. However, the other side (North) gave readings of up to 0.25 mr/hr.

2. The area is not licensed so no report to NRC is required at this time. I will contact Mr. Taras, (RPO, AMC) when we have a better idea of what's out there.

3. Actions to be taken:

a. Temporary fence with "Rad Material" signs. (25 Jan 85)

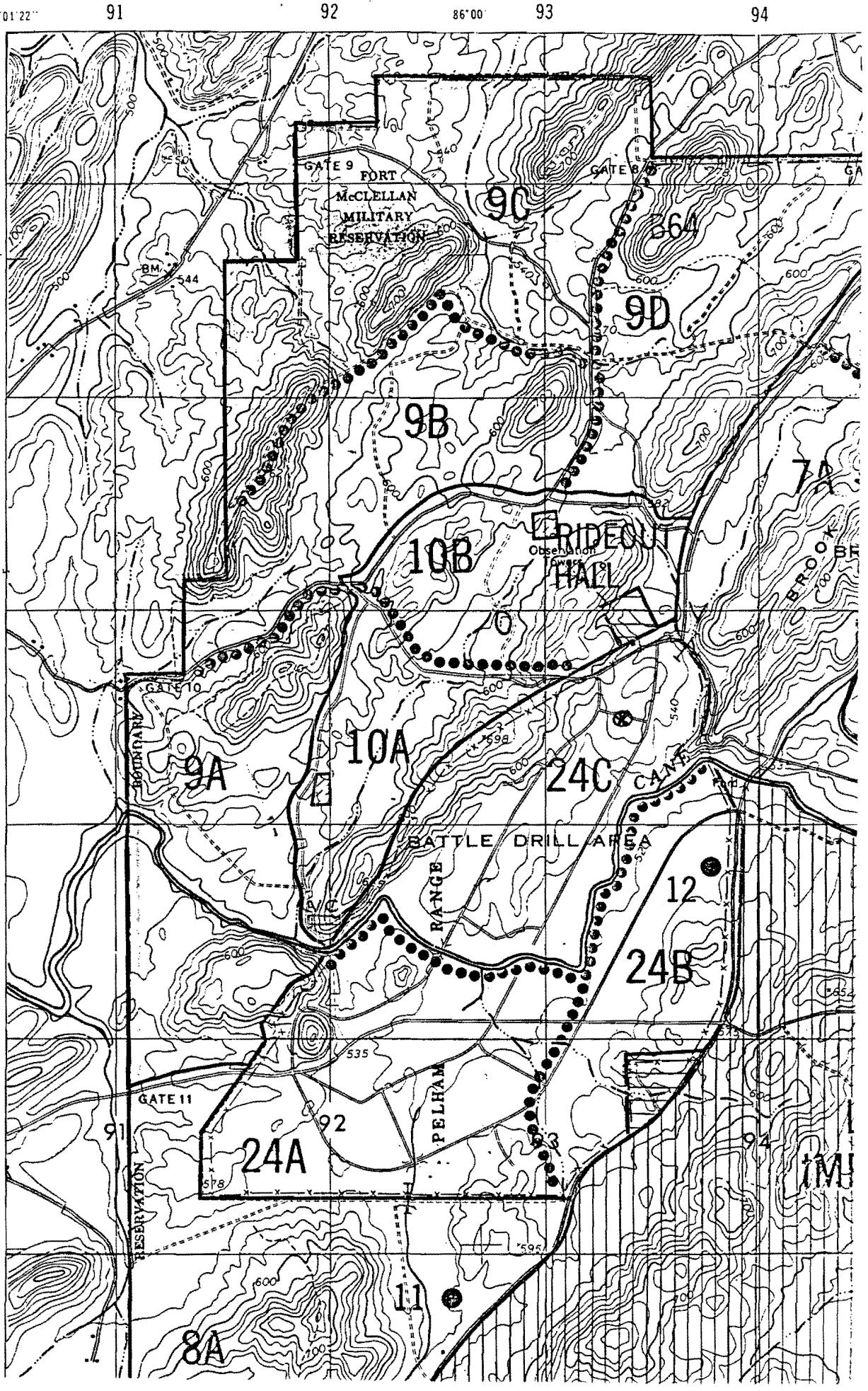
b. I will check the area using a multichannel analyzer, to find out what isotopes (gamma) are present in large amounts. (25 Jan 85)

c. We will have to get some soil samples of the area to find out exactly what isotopes are present (USAEHA). It may be necessary to get AEHA to come down and do a special study. (months)

d. The area is not extremely large (25 ft. x 10 ft.). We may be able to decomtaminate it ourselves, if we have enough resources (drums, technical support, and manpower). (years)

ANDREW F. KINGERY
CPT, CmlC
Health Physics Off

FOR TRAINING ONLY



D Suspected Location

Isotopes Extension Files May 29, 1957

James W. Hitch

REPORT OF CAPTAIN CONER ON FINDINGS AT U.S. ARMY CHEMICAL CORPS SCHOOL, FORT MCCLELLAN, ALABAMA

Symbol: IEB:JWH

Captain Coner presented a very detailed review of his and Colonel MacMurray's visit to Fort McClellan on May 27 and 28. Captain Coner was not at all pleased with the general program as carried out at this installation.

He reported that over 3000 curies of cobalt were stored out in a survey range which was referred to as Pellam Field. These sources varied in millicurie content from a few hundred millicuries to several curies. Sources are encapsulated in a galvanized pipe and are stored underground when not in use as described in their application dated April 10, 1957. It was also learned that these sources are raised above ground for certain field maneuver operations and left there for several days. Captain Coner reported a quick check of this field to be better than 300 mr/hr. This area is approximately 1 mile x 1-1½ miles and is located in a military reservation which is enclosed by a two strand barbed wire fence and, although posted with a triangular black and white sign with the word "Atom" at approximately every 50 yards, it was mutually agreed by those attending the meeting that the area was improperly secured against unauthorized entrance to this area.

Another field of contention was that of a burial ground which had been abandoned but still had a radiation level at certain points of approximatel 50 mr/hr. This burial ground was again surrounded by a two strand barbed wire fence. However, there was a new housing site nearby and it was pointe out that this whole burial area would be an excellent place for children to want to play. This installation is endeavoring to establish a new burial ground and some effort is being made to clean up the old one. Captain Coner reported he recommended that all detectable contamination be removed. He also stated that he recommended they discontinue burial of radioactive materials and contaminated equipment and either ship to Dugway or Edgewood for proper disposal of byproduct waste.

Question was raised as to our requirements on sealing of their encapsulated sources. Captain Coner had a source capsule which appeared to satisfactorily meet our requirements. However, he stated he had recommended that a few of the previously encapsulated sources be encapsulated for contamination and leakage of byproduct material. He stated that there was some reluctance of

OFFICE ▶						
SURNAME ▶	Hitch					
DATE ▶						

Fort McClellan personnel to make this test. He also reported that they had agreed to tag all encapsulated sources used at Fort McClellan for field operational purposes. It was also agreed that we needed additional information on encapsulation procedures to be carried out at Fort McClellan.

It was pointed out that we also need additional information concerning protection aspects of the hot cell, such as the amount of byproduct material to be handled at any one time and the estimated radiation levels outside the cell where personnel may be subject to exposure to the radiation.

It was also pointed out that we had been led to expect a revised "Standard Operating Procedure" from this installation and such had not yet been obtained. Captain Coner reported Fort McClellan personnel stated that such a SOP was in process of being drawn up and would be available in the immediate future.

It was pointed out that we neededan up-to-date listing of the radioisotope committee with the names of the individuals who would be responsible for this program, since Lt. Powell is to be replaced in the immediate future. It was also necessary that we have the qualifications of such personnel.

It was formally agreed that we would write a letter to Colonel Wood, Chairman of the Isotopes Committee through the Surgeon General's Office, U. S. Army, Washington 25, D.C., Attention: MEDCE, pointing out the information further needed to obtain their application for licensing. It was further agreed that we would wait approximately 10 days until Captain Coner and Colonel MacMurray could further evaluate their findings and advise us with a copy of their findings at Fort McClellan.

OFFICE ▶	Isotopes					
SURNAME ▶	Hitch/ps/dwp					
DATE ▶	6-17-57					

INFORMATION PAPER

ATZN-CM-AHP
4 February 1985

SUBJECT: History of the Rideout Field Cobalt-60 Radiation Sources

1. The US Army Chemical Corps School, Fort McClellan, Alabama was first licensed by the Atomic Energy Commission (AEC), in Byproduct Materials License No. 1-2861-1, dated 21 Oct 58 (Encl 1). The license allowed 6,000 curies of Cobalt-60 in locally-fabricated sources to be used on Pelham Range. A label or tag was to be attached directly to the container (capsule).

2. Amendment No. 2 to BML 1-2861-1, dated 2 Dec 58 (Encl 2) limited the use of the sources by not allowing for removal and re-encapsulation until a facility (Bldg 3192, Hot Cell) was built.

3. Amendment No. 7 to BML 1-2861-1, dated 14 Dec 61 (Encl 3) allowed for re-encapsulation to proceed. Amendment No. 7 also directed that a permanent record be made of the quantity and date of each radioactive source.

4. BML 1-2861-1 was amended in its entirety with Amendment No. 9, dated 5 Nov 63. Prior to amendment, a series of letters between USACCS and AEC regarding the condition and location of the original Cobalt-60 sources (Encl 4, 5, 6, and 7) indicate that 541 sources were installed. Amendment No. 9 also allowed for new, commercially-procured sources for the Radiological Training Area.

5. Amendment No. 12 to BML 1-2861-1, dated 20 Dec 65 eliminated the requirement for locally-fabricated Cobalt-60 sources. The application letter, dated 27 Sep 85, and signed by CPT Manual L. Sanches, Chief, Health Physics Office, (Encl 8), states that all of the original sources were escorted to the Nuclear Engineering Company, Moorehead, Kentucky, during the period Aug 64 - Nov 65.

6. The numbered (1020), commercially procured radiation sources were disposed of in 1972. Amendment No. 20 to BML 1-2861-1, dated 26 Sep 72, eliminates these sources from the license. A letter to the AEC, signed by Mr. Allen Rehrig, Acting Chief, Industrial Division, ODCSLOG, DA, dated 12 Sep 72 (Encl 9), documents this action. The application letter (Encl 10) states that the sources were disposed of under contract to Nuclear Engineering. The field was certified clean by the previous RPO, MAJ Raymond L. Anderson, in a letter to MAJ Charles Wickstrom, RPO, dated 16 Feb 73 (Encl 11).

7. CML 1-2861-1 was cancelled by AEC on 24 Jun 73 and replaced by FML 1-2861-3, dated 31 Jul 73, which covered residual contamination at Bldg 3192 (Hot Cell). The burial grounds at Rideout Field had been cleaned up by MAJ Anderson on 28 Mar 72 (Encl 12). The burial site was surveyed by USAEHA on 6 Feb 73 (Encl 13) and 30 May 73 (Encl 14), and declared clean.

CPT Kingery/4489

ATSCM-HP
SUBJECT: Rideout Field Documentation

MFR: Follow-up action resulting from recent inspections. MAJ Anderson's reply will be used as the nucleus of a file on close-out of Rideout Field.

Charles J. Wickstrom

CHARLES J. WICKSTROM, MAJ, CmlC, C, Hlth Phy Div/9 Feb 73/kh/3937

COORD: Asst Comdt CMS
9 Feb

DEPARTMENT OF THE ARMY
HEADQUARTERS US ARMY SERGEANTS MAJOR ACADEMY
FORT BLISS, TEXAS 79918

ATSSM-DM

16 February 1973

SUBJECT: Rideout Field Documentation

Major Charles Wickstrom
Chief, Health Physics Division
US Army Chemical Center and School
Fort McClellan, Alabama 36201

Dear Major Wickstrom,

I received your letter today concerning the documentation of the Rideout Field close-out. Per your request, to the best of my ability, I will outline the procedure utilized for this operation. I do not have any documents in my possession that relate to this matter. Everything written on the operation, i.e., status reports to the Assistant Commandant, wipe test results, shipping documents, etc., were left in the files of the Health Physics Office.

As SSG Truffa may recall, the south side of Rideout Field was loaded with cobalt-60 sources in the spring of 1970 after R&J Machinery Company had completed their renovation work. All sources were wipe tested prior to placing them in the field. During the summer and fall of 1970, renovation work was done on the north side of the field. In February 1971 the sources were installed, after being wipe tested, in the north portion. Due to mechanical problems with the actuators, Colonel Fair made the decision to discontinue use of the field. This occurred in early 1972. Contact was made with Mr. Dean at Edgewood Arsenal concerning disposal of the cobalt-60 sources. We had sources in the Hot Cell that were not being used and desired to ship them for disposal so that we would have room in the Hot Cell for the sources that were at Rideout Field. This initial shipment was handled for us by Nuclear Engineering of Morehead, Kentucky. The shipping documents for this phase of the operation were on file in the Health Physics Office.

After this phase, another contract was awarded to Nuclear Engineering for disposal of all the remaining sources. During phase II, all sources were removed from Rideout Field. The south portion was unloaded first. Since these sources had been in the field since early 1970, they were all wipe

tested. Wipes were counted using the Hammer Counter and Scaler in the Health Physics Office. No leaking sources were found. For the north side of the field, since the sources had been installed less than a year and had been wipe tested prior to installation, they were not wipe tested again prior to loading them into the shipping containers used for shipment to ultimate disposal. These shipping containers were sealed and placed in the Super Tiger belonging to Nuclear Engineering for shipment to Morehead, Kentucky.

After unloading all sources from the field, the actuators were checked for contamination using E-510 radic survey meters by SFC George Pryor, SSG Dale Hollingsworth and myself. One actuator in the north side of the field was found by SFC Pryor to be slightly contaminated, that is, he got a small reading on the lowest scale of the E-510. This actuator was removed from the field, placed in a plastic bag and put into one of our special 55 gallon drums used to ship radioactive waste. No other contamination was found. As best I can recall, the survey of each empty actuator was not recorded formally on a survey sheet; however, the survey was accomplished in a thorough manner. I know that no actuators left in the field were contaminated. This phase of the operation was completed in March 1972.

The next phase of the operation entailed digging up the burial grounds at Rideout Field. This task was accomplished by SFC Pryor, SSG Hollingsworth and SSG Truffa. The concrete slab covering the burial site was broken up and removed. Clinging to the underside were concrete blocks and various debris. This was all placed in 55 gallon shipping containers. Some soil immediately under the slab was also placed in the drums. A survey of the area using the E-510 radiac meters and AN-PDR-27's with the shield open, did not detect any residual contamination. During this operation as I recall, I was in the hospital with a kidney stone problem. Once the field was free of contamination, all radiation warning signs surrounding the area were removed. The field was turned over to the Post. At that time, I think the Air Force and a team of scientist from the Defense Nuclear Agency were using the field as a drop site for earth penetrating bombs. The Deputy Chief of Staff for Plans and Training at Fort McClellan coordinated this action. All keys to Rideout Hall, etc., were turned in to LTC Saunders, Logistics Office, of the Chemical School. LTC Saunders was also the school Safety Officer and a member of the Isotope Committee. He in turn, susposedly, coordinated the turn-over of the field and Rideout Hall to the Post.

After this action, at the last Isotope Committee meeting I attended, the subject was raised whether or not we should drop our license from the AEC which covered Rideout Field. I favored this action since everything from the field had been removed and we had no plans to start another field at this location. As I recall, Colonel Thomas Roark and others thought we should keep the license for the field. I can't recall what

was decided, but it may be recorded in the minutes of this meeting. A decision on this matter may have been deferred.

In the first part of July, after I had assumed a new duty assignment, the final batch of cobalt-60 sources were removed from the Hot Cell, placed in shipping containers, and transferred to the burial site at Morehead, Kentucky. Major Wickstrom and SSG Truffa handled the final step. In conclusion, all actuators were surveyed after the sources were removed, only one was found slightly contaminated. I don't recall the exact reading on this one actuator, but it was a small reading on the lowest scale of the E-510 being used by SFC Pryor. This actuator was removed from the field, packaged as radioactive waste and disposed of through proper channels. The burial grounds were dug up, the small amount of contamination found was packaged and disposed of properly. A survey of the burial grounds using an E-510 meter and AN-PDR-27 with the shield open did not reveal any contamination remaining at the burial site. Radiation signs were removed from the fence around the field and from the actuators. Keys were turned in to LTC Saunders of the Logistics Office. At that point, the Health Physics office up until I departed, did not have any further dealings with the field. The final task in July was to ship out the remaining sources.

As a matter of record, I certify that all safety procedures were followed to the letter during the close-out of Rideout Field. No residual radioactive contamination remained once the work at the field was completed by Health Physics Personnel. During this operation, periodic status reports were made to Colonel Vanderbleek, Assistant Commandant of the Chemical School. Documentation deemed necessary was produced; however, at the time, no one realized that an official record of our surveys was necessary.

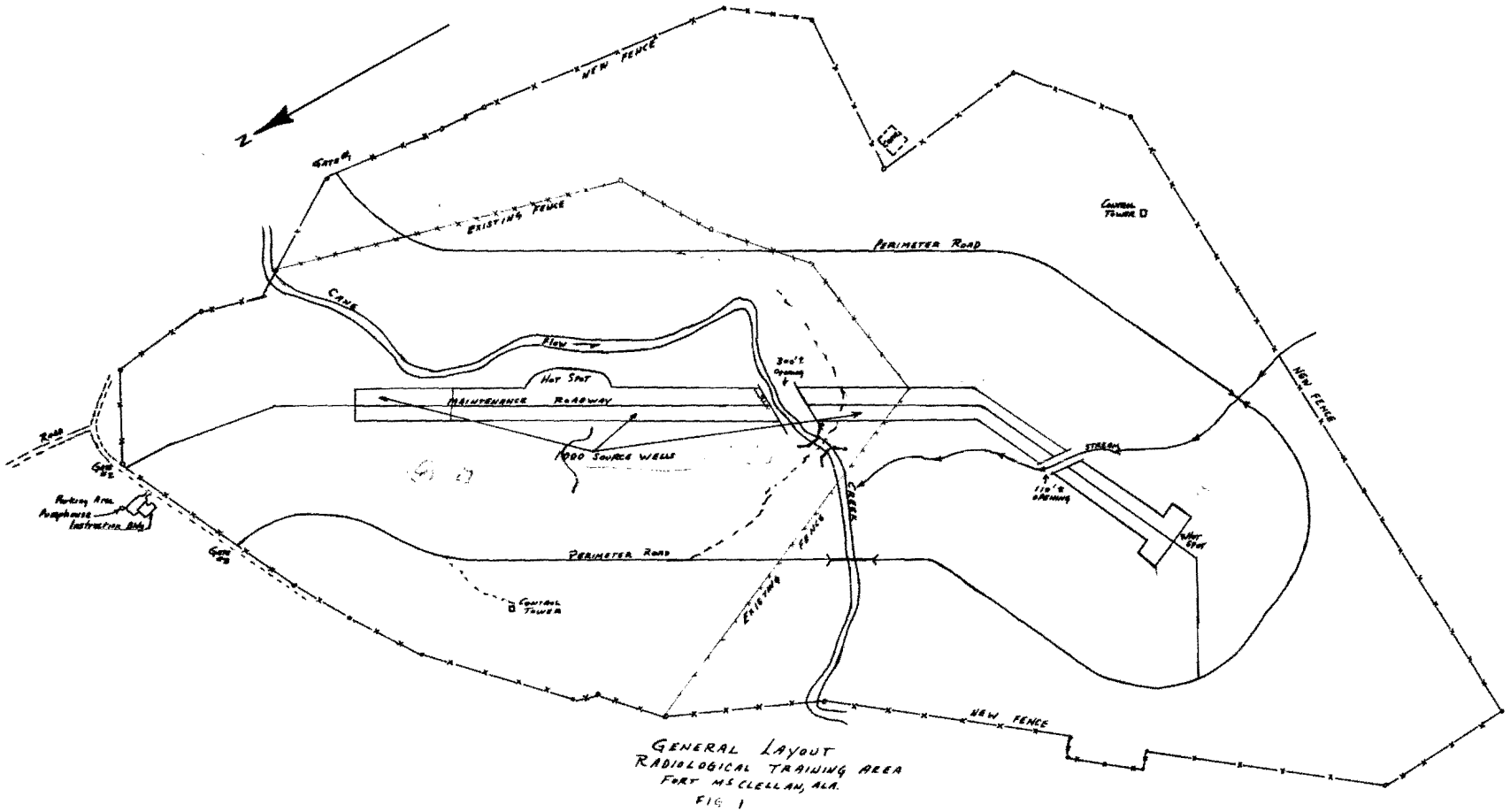
If additional information is desired, I recommend that SFG George Pryor be contacted. I feel he may be able to offer additional information concerning the safety procedures followed during this operation. Your letter stated that no documentation of this operation exists; however, I suggest you review the Isotope Committee records, DF's written to the Assistant Commandant, old wipe test files, and the file pertaining to the shipping and disposal of radioactive materials. The only records I know you won't find pertain to our surveys of the field after the sources were removed. The surveys were made, but not documented.

If I can be of any further assistance to you in this matter, please call AUTOVON 978-8106/8134.

Sincerely,

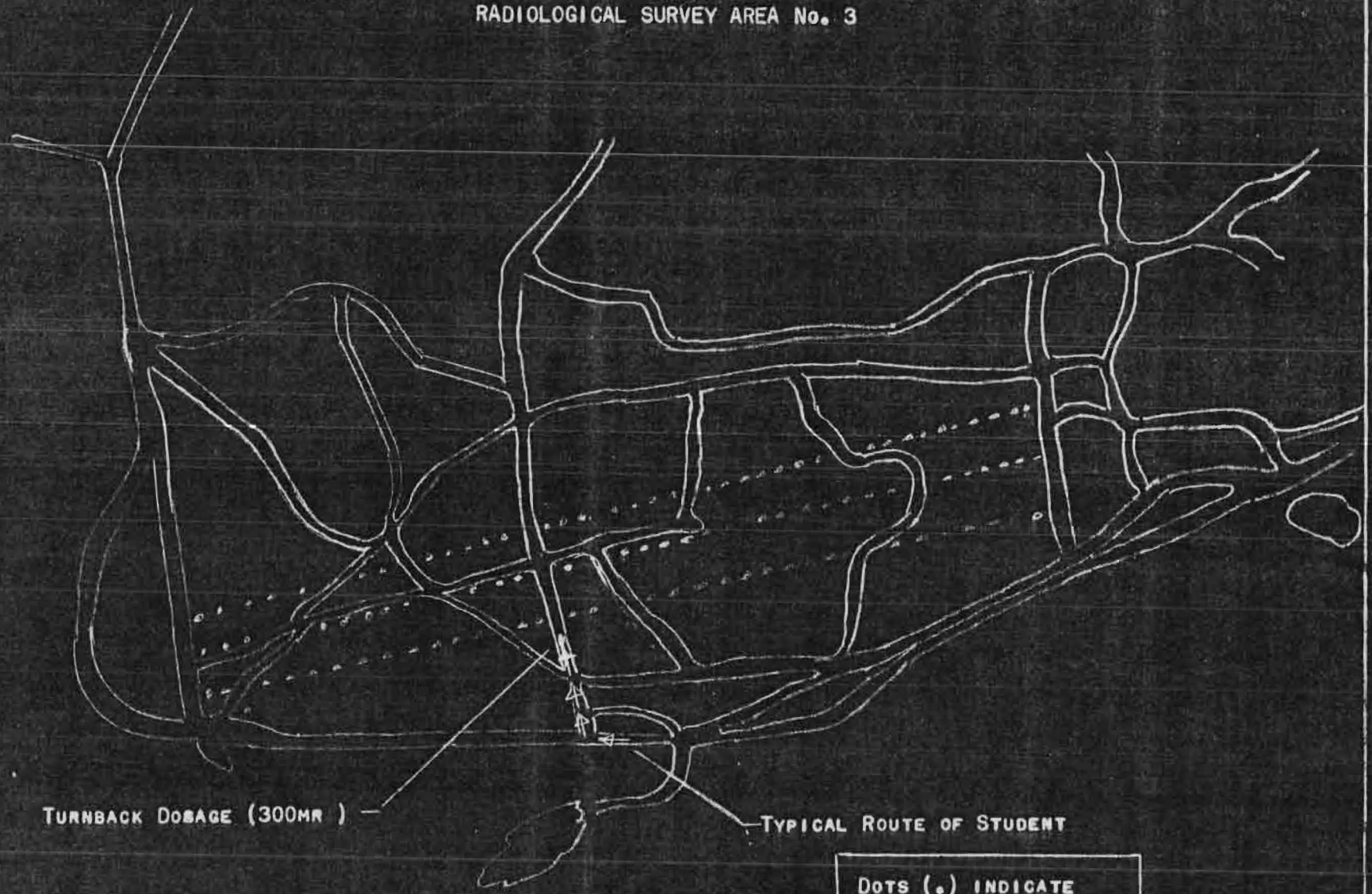
Raymond L. Anderson

RAYMOND L. ANDERSON
Major, CmlC
Military Management Department



GENERAL LAYOUT
RADIOLOGICAL TRAINING AREA
FORT MCCLELLAN, ALA.
FIG 1

RADIOLOGICAL SURVEY AREA No. 3



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