



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION V

1450 MARIA LANE, SUITE 210
WALNUT CREEK, CALIFORNIA 94596

MAY 24 1985

License No. 46-02645-03

Commander
Madigan Army Medical Center
Tacoma, Washington 98431-5000

Attention: Brigadier General Darryl H. Powell, M.D.
Commanding Officer

Gentlemen:

Please find enclosed NRC Form 591 which indicates three violations that were identified during the safety inspection which was conducted on May 7-8, 1985.

Pursuant to the provisions of 10 CFR 2.202, you are requested to sign and date the enclosed NRC Form 591 which indicates that appropriate corrective action will be taken with reference to the violations described on the form. After signing, please detach the first sheet of NRC Form 591 and return the remaining carbon copies with your signature to me at the Region V office, address identified above, within 30 days of the date of this letter.

If you have any questions on this matter or concerning this inspection, please telephone me on 415-943-3850.

Thank you for your cooperation.

Sincerely,

David D. Skov
Radiation Specialist
Radiological Safety Branch

Enclosure: NRC Form 591

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46-02645-03 PDR



DEPARTMENT OF THE ARMY
MADIGAN ARMY MEDICAL CENTER
TACOMA, WASHINGTON 98431-5000

REPLY TO
ATTENTION OF

28 May 85

Memorandum For Record

Subject: Radiation Protection Survey for the Cesium Storage Room

1. A radiation protection survey of the Cesium Storage Room and adjacent areas was performed during the period 9 - 17 May 85.
2. The initial survey was performed on 9 May 85 to verify the findings of the NRC inspection the previous day, who found 0.15MR/hr at the West wall of Dr. Patel's office. A calibrated E-520 survey meter with HP-210 probe was used for this survey. The results of that survey are presented as inclosures 1 and 2.
3. Based on the initial survey, several steps were taken to reduce exposure from the safe.
 - a. The safe was relocated to the opposite wall, and turned 180 degrees so that the door now faced the exterior wall.
 - b. The open area between the safe and lead barrier was lined by 4.5 cm thick of lead bricks to the height of 30 cm.
 - c. The sources were moved to the lower right drawer, closest to the simulator wall. The sources inside were also rearranged so that the most active sources placed to the rear of the safe, where the shielding is the thickest. Inclosures 3 and 4 detail the exposure measurements after the above steps had been performed.
4. A review of Dr. Patel's film badge records during the past year indicated a whole body exposure of 0.059 rem, significantly below the 5 rem/yr limit established by the NRC. During this year, she had participated in 2 Cesium and 2 Iridium implants. Based on her exposure history and survey results it is felt that no significant dose was received based on her exposure to the radiation from the Cesium safe.
5. Since no exposure or dose limits were ever achieved for a non-occupational worker, which are 10 times less than that allowed for an occupational worker, nor were any ALARA investigative limits reached, and since the exposure rate from the safe has been significantly reduced, no further action is deemed necessary. For further documentation, monitor film badges have been placed on Dr. Patel's West wall, and on the East simulator wall.

Joseph P. Hellman

JOSEPH P. HELLMAN
CPT, MSC
Medical Physicist

4 Incl
as
CF: RPO ✓

Figure 1 - Initial Survey of 9 May 85

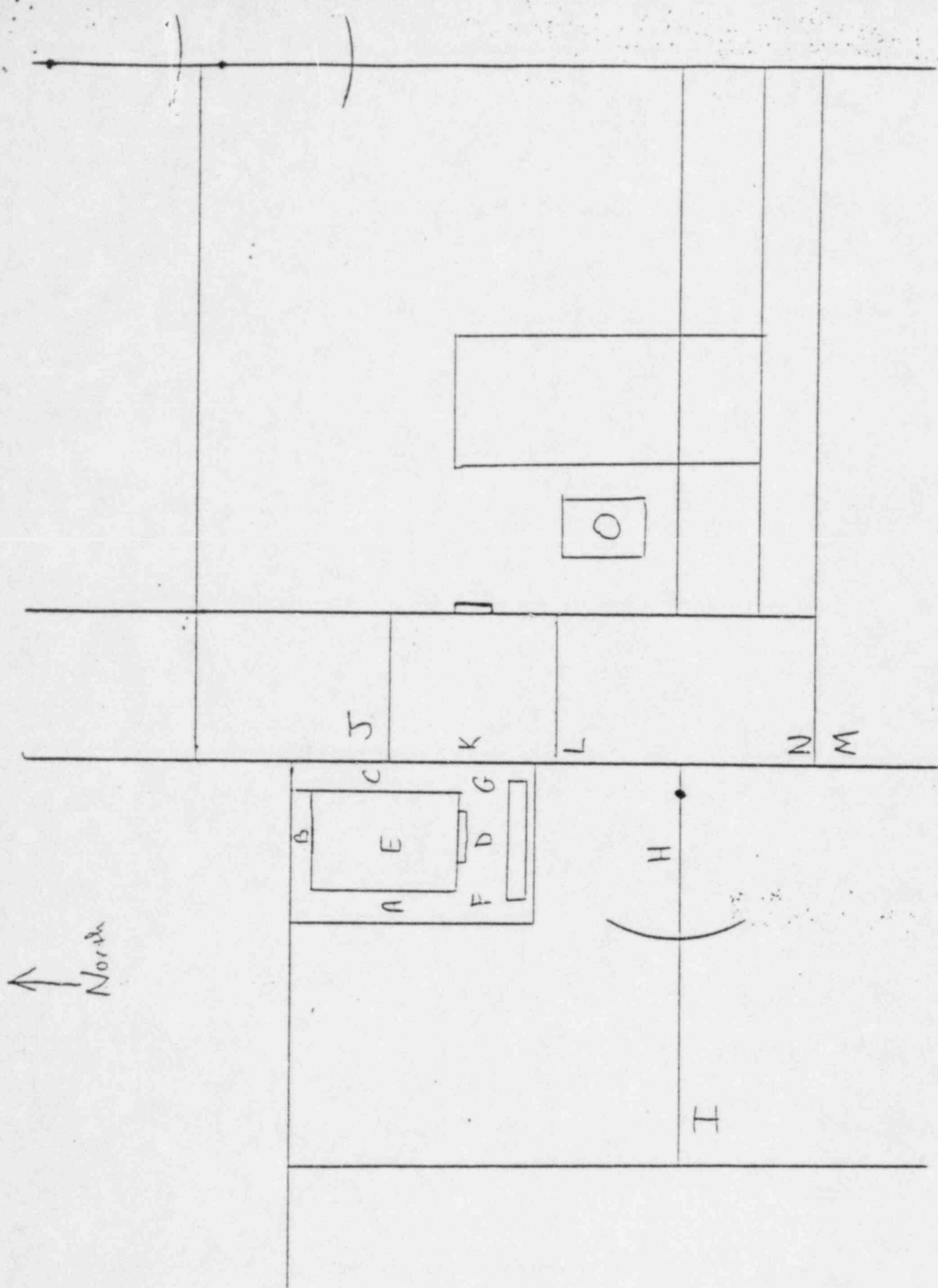


Figure 2 - Final Survey of 16 May 88

↑ North

