

Metro Medical Group

1800 Tuxedo/Detroit, MI 48206/313-252-1000

September 21, 1989

Roy J. Caniano, Chief
Nuclear Materials Safety
Section 2
U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

30-02085

RE: Metro Medical Group - Detroit Northwest
License Number: 21-10140-01

Dear Mr. Caniano:

This letter is in response to the Notice of Violation dated September 8, 1989, and received by this facility following the safety inspection conducted by Mr. J.W. Patterson on August 22, 1989.

As concerns the alleged violation that this licensee had been recording the results of weekly removable contamination surveys in counts per minute rather than disintegrations per minute, please note the following corrective steps taken on behalf of Metro Medical Group:

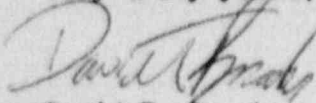
1. Corrective Actions Taken and Results Achieved: All results of weekly removable contamination surveys are now recorded as disintegrations per minute. This process is conducted by measuring counts per minute and converting them to disintegrations per minute using an efficiently predetermined counting of the uptake probe. (See enclosed copy of the uptake probe efficiency determination.)

2. Corrective Actions for the Future: Metro Medical Group will continue with the procedure described above.

3. Date of Compliance: The procedure was implemented on September 8, 1989 by Ramon N. Roco, M.D., Chief of Nuclear Medicine.

If you have any questions regarding the corrective measures taken as they relate to this licensee's compliance of NRC safety regulations, please do not hesitate to contact me at (313) 252-1358.

Very truly yours,



David T. Brooks
Administrator for
Ambulatory Services

DB:aghp

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copy to: R. Roco, M.D.

SEP 28 1989

Enclosure

Medical Physics Consultants, Inc.

UPTAKE PROBE EFFICIENCY

Metro Medical Group

Source Activity: 12.5 uCi of Tc-99m at 4:00 p.m.
 2.4975×10^7 dpm

Source Counts: 775752 cpm
771505 cpm
Ave = 773629 cpm

Background Count: 890 cts/10 min
89 cpm

Net Source Count: 773540 cpm

Counting Efficiency: $\frac{24975000}{773540} = 32 \frac{\text{dpm}}{\text{cpm}}$
 $\frac{773540}{12.5} = 6.19 \times 10^4 \text{ cpm/uCi}$

Minimum Detectable Activity: Rb = 89 cpm
t = 1 m
MDA (Tc-99m) = 60 cpm
 $= 8.60 \times 10^{-4} \text{ uCi}$
= 1920 dpm