

RECEIVED  
REGION 1

05 FEB 17 P1:55

Nicholas J. Smarra  
Medical Physicist  
Warren General Hospital  
Cancer Care Center  
2 Crescent Park West  
Warren, Pa 16365

Nuclear Regulatory Commission  
Region 1  
475 Allendale Road  
King of Prussia, PA 19406-1415

K-8

MS-16

February 8, 2005  
License # 37-17863-01

03013549

Sandra Gabriel:

Ms. Gabriel, this letter is in response to the request that you had sent to Warren general Hospital on January 31, 2005. I have addressed the following by number according to your previous letter.

1. I am sending a letter to the state to amend our license for Pd-103.
2. We have verified the model numbers from each vendor and as you had previously listed they are all the same.
3. I have confirmed that Cs-131 is reactor produced and should be governed under the NRC. We will probably not do many of these procedures, at least initially, but would like to have this on our license. If you need additional information please contact me.
4. The maximum possession limit that we will need is 2000mCi.
5. As previously listed in our NRC license the materials will be received and stored in Nuclear Medicine until time of the procedure. A drawing and room number are on file with the NRC currently.
6. The survey instrument that will be used to monitor thee Prostate Seed Implant procedures is a Ludlum Model 3 gamma scintillation detector. I do not have the serial number currently because it has not been received in the department as of yet.
7. The release criteria are as follows.
  1. No person can receive more than 500 mrem total exposure from your patient
  2. Can assume this person to be at occupancy of 0.25 at 1 meter
  3. Take calibrated GM meter and measure dose rate at 1 meter from patient
  4. Multiply the mR/hr @ 1M by Correction factor CF of 518 for I-125 or by 146 for Pd-103

Derivation:  $CF = \text{mean life (HL} \times 1.44) \times \text{Occupancy (0.25)} \times 24\text{hours}$   
 $I-125 \text{ HL}=60\text{d}, 60 \times 1.44 \times 24 \times 0.25 = 518$   
 $Pd-103 \text{ HL}=17\text{d}, 17 \times 1.44 \times 24 \times 0.25 = 146$   
 $Cs \ 131 \text{ HL} = 9.7\text{d} \times 1.44 \times 24 \times 0.25 = CF \text{ for Cs}$

For I-125 patient the dose rate must be 0.99 or less. For Pd-103 it must be 3.42 or less.

136247  
NMSS/RGNI MATERIALS-002

8. The room number is 357. This room is a single patient room located in the isolation wing of the hospital. It is housed with a devoted restroom.
9. The Radiation Safety Officer, Lawrence Lareau, has not been specifically trained in the radiation safety aspects regarding prostate seed implants. Training and in-service will be provided by the authorized user, Dr. Leroy Korb, the medical physicist, Nicholas J. Smarra, and the manufacturer of the seed being used.

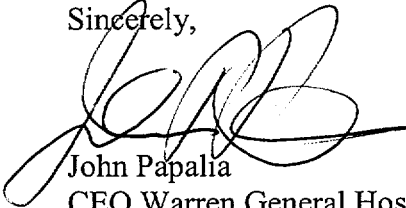
If there is any other additional information or questions that need to be answered please do not hesitate to call, email, or write.

Office – 814-723-4973 ext 2519

Cell – 412-558-1235

Email – [snick@wgh.org](mailto:snick@wgh.org)

Sincerely,

A handwritten signature in black ink, appearing to read 'JP', with a long horizontal stroke extending to the right.

John Papalia  
CEO Warren General Hospital