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October 30, 2006

NRC License No.: 37-28696-01
Docket No.: 03032514
Control No. : 139270

U.S. Nuclear Regulatory Commission, Region 1
Attention: Dennis R Lawyer, Health Physicist
Nuclear Material Section B
475 Allendale Road
King Of Prussia, PA 19406

Dear Mr. Lawyer,

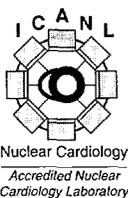
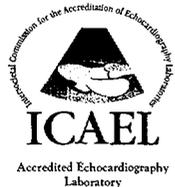
Per your request to Allen Glotfelty for Dr. Christopher Spizzieri to receive instruction on the attenuation correction device at our location, the following has been accomplished.

I instructed Dr. Spizzieri on attenuation correction (AC) as it pertains to our Philips/Adac Forte by reviewing the Vantage Pro™ user's manual supplied with our AC equipment and the equipment itself.

1. We discussed the physical mounting of the ¹⁵³Gd sealed source in the Philips/Adac Forte system.
2. Explanation of the copper attenuator used when a source is new as well as the shutter assembly that shields the source when not scanning.
3. The importance of the Open Shutter Light mounted on the collimator shield was discussed. The light should only be on during an attenuation correction acquisition. If the light is on at any other time, this presents a radiation hazard that must be dealt with immediately. We reviewed the procedure if the shutter does not close properly and how to manually close the shutter and remove the shutter assembly to the lead cabinets.
4. We reviewed the radiation exposure from the ¹⁵³Gd source, the two energy peaks of 97 keV and 103 keV, and the housing that will reduce the exposure rate to less than 0.2mR/hr.
5. We discussed the two ways to determine the acquisition time of an AC study. The first uses the Information Density scan which sets the AC scan time according to the patient body habitus and counts received. The second method is a preset time per acquisition that is determined by the Nuclear medical director. The total radiation dose from ¹⁵³Gd to the patient is determined by the amount of time the shutter is open to the patient.
6. We reviewed several patient studies that had been acquired with AC.

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NMSS/RGN MATERIALS-032

If you require any additional information, please do not hesitate to contact us.

Sincerely,

A handwritten signature in cursive script that reads "Samuel W. Bordner".

Samuel W. Bordner, C.N.M.T., ARRT (N)
Director of Clinical Services