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facsimile transmittal

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To:	Tom Thompson Mail Control # 139092	Fax:	610-337-5269
From:	David Longton	Date:	8/3/2006
Re:	Morris County Imaging – Sealed Source Information	Pages:	2
CC:	Michael Teters		

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Dear Mr Thompson,

Please find attached the information provided by the manufacturer of the PET/CT scanner at Morris County Imaging (Philips Medical Systems).

Please contact me at 973-715-2743 if you require any additional information in order to process our radioactive materials license.

Many Thanks,

David Longton RT(R) MBA

139092

NMSS/RGNI MATERIALS-002

Morris County Imaging
310 Madison Ave.

SECTION VIII

RADIATION SAFETY

RADIOACTIVE SOURCES

The Gemini GXL system requires seven radioactive sources:

1. **(7) Na-22 quality control and calibration sources**

For domestic shipments, the sources are drop-shipped from the source vendor, Isotope Product Laboratories (IPL). For export, the sources must be purchased separately from IPL's local distributor. Ordering information is provided at the time of sale.

Source Characteristics

ITEM	NA-22 SOURCE	NA-22 SOURCE
Activity (nominal)	3.7MBq (100μCi)	.37MBq (10μCi)
Manufacturer	Isotope Product Laboratories (IPL)	Isotope Product Laboratories (IPL)
IPL model number	GF-0227 100μCi	MMS05-22-10U
Quantity	1	6
Sealed source and device registry	CA0406S1060S	NUREG 1556 section 5.11(see note 1, page 34)

APPLICABLE REGULATIONS

Radiation safety considerations in the design of the Gemini GXL are driven by US Nuclear Regulatory Commission (NRC), and Agreements States, regulations and guides.
The NRC specifies that the maximum dose of radiation permitted for workers in the United States is 5000 Mrem per year (NRC Title 10 Part 20). This corresponds to an average dose of approximately 2.5 mrem/ hour. Note that for gamma radiation, 1mrem = 1mR = 1mrad = 10uSv. The NRC also recommends the adoption of "ALARA – As Low As Reasonably Achievable" as the operating policy of radiation safety programs.