

Memorandum
YOUNGSTOWN ASSOCIATES IN RADIOLOGY, INC.
HITCHCOCK X-RAY • CRESTWOOD X-RAY • GENESIS

7250 WEST BLVD. • P.O. BOX 3509
BOARDMAN, OH 44513
TELEPHONE (216) 758-8353
FAX (216) 758-3310

25 N. CANFIELD-NILES ROAD
YOUNGSTOWN, OH 44515
TELEPHONE (216) 793-5547
FAX (216) 793-7011

April 12, 1994

Mr. Roy Caniano
Nuclear Materials Safety Branch
United States Nuclear Regulatory Commission
Region III
801 Warrenville Road
Lisle, Illinois 60532-4351

SUPPLEMENTAL RESPONSE

License No. 34-16621-01

Dear Mr. Caniano:

This is a supplemental response to our recent NRC licensed inspection. Any further questions regarding these matters, please contact Janet Sainato.

On April 13, 1994, Dr. Melnick, Cynthia Moran and Janet Sainato reviewed PART 35, especially 35.32, 35.33 and 35.51 and reviewed our daily activities. Included were the following activities:

- Linearity - Quarterly
- Leak Source Test - Semiannually
- Inventory - Quarterly
- Daily Lab and Area Surveys
- Weekly Area Room Survey
- Weekly Wipe Tests
- Daily Source Constancy
- Personnel Exposure Records - Monthly
- Survey Meter Calibration - Annually
- Shipping and Receiving of Pharmaceuticals

All daily activities, as well as, PART 35 and other supplements will be reviewed. Dr. Melnick will check and sign the documentation of our required tests on a quarterly basis. Chuck Wissuchek, annually reviews all nuclear activities, as well as, linearity tests, quarterly, and personnel exposure records, monthly.

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APR 18 1994

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Our quality management program was revised and a copy of that program is enclosed.

A new beta gamma GM Probe, Victoreen Probe 491-40, is being purchased which will put us in compliance with PART 35.51. This probe will give us the capabilities to measure up to 1000mr/hr. We are currently purchasing this probe through Victoreen Inc., 6000 Cochran Road, Cleveland, Ohio 44139-3395. Victoreen will then calibrate the survey meter and all probes.

Thank you

John C. Melnick, M.D.
John C. Melnick, M.D.

Janet Sainato R.T.
Janet Sainato, R.T.

Cynthia E. Moran R.T.
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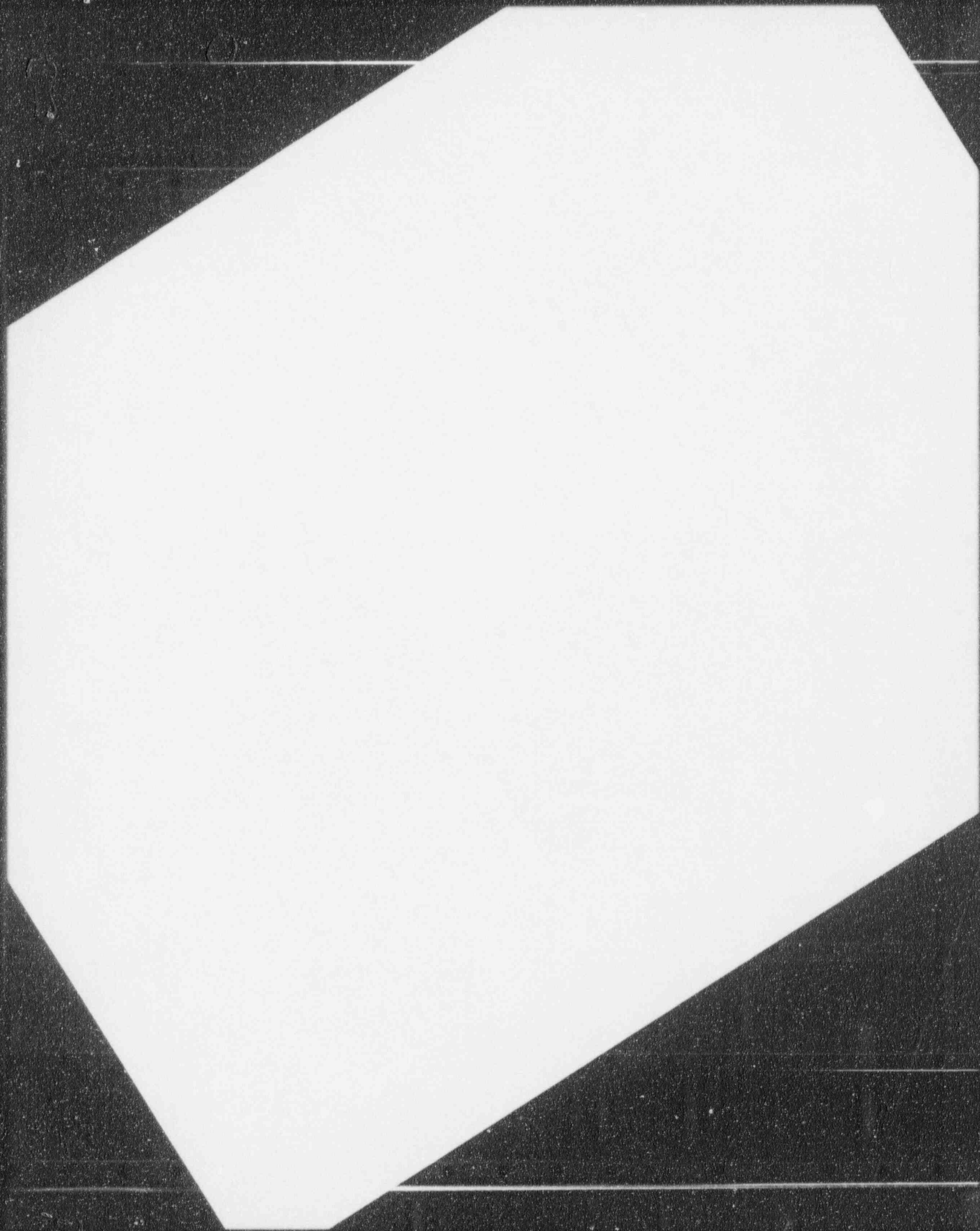
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RECORDABLE EVENT

- 1) The licensee shall evaluate and respond to the discovery of the recordable event.
 - A) Assemble the relevant facts.
 - B) Identify corrective action required.
 - C) Retain a record for 3 years.
 - 1) Each written directive.
 - 2) Each administered radiation where a written directive is required.
 - 3) Make necessary modifications.

Any further questions, contact Dr. Sainato, R.T.



1/3/94

YOUNGSTOWN ASSOCIATES IN RADIOLOGY
QUALITY MANAGEMENT PROGRAM (REVISED)

POLICY

- 1) An authorized user will date and sign a written directive prior to ordering and to administration of any therapeutic dosage of a radiopharmaceutical or any dosage of quantities greater than 30 MICROCURIES OF I131.
- 2) Prior to each administration, the technician will verify each patient by more than one method. The patient will be asked to confirm his or her name and at least one other verification, address, social security number, birth date.
- 3) The licensee will verify, before administering the dosage that the byproduct material is in accordance with the written directive. The dosage will be measured in the dose calibrator and the results compared to the written directive.
- 4) If any worker does not understand the written directive, they will immediately question the physician on duty and the radiologist who ordered the dosage can be contacted.
- 5) After administration of the dose, a record will be kept and signed of this transaction.
- 6) Periodic review of this program will take place and modifications will be made to meet all objectives.

MISADMINISTRATION

- 1) In the event of a misadministration, the relevant facts will be assembled.
- 2) We will identify the cause and corrected action will be taken.
- 3) Notified by telephone the NRC Operation Center no later than the next calendar day after discovery of misadministration.
- 4) Submit a written report withing 15 days after discovery of misadministration.
- 5) Notify the referring physician and patient no later than 24 hours after discovery.

RECORDABLE EVENT

- 1) The licensee shall evaluate and respond within 30 days after discovery of the recordable event.
 - A) Assemble the relevant facts.
 - B) Identify corrective action required to prevent reoccurrence.
 - C) Retain a record for 3 years.
 - 1) Each written directive.
 - 2) Each administered radiation dose or radiopharmaceutical dosage where a written directive is required.
 - 3) Make necessary modifications.

Any further questions, contact Dr. John C. Melnick, RSO., and/or Janet Sainato, R.T.

INSTRUMENTS PRICE LIST

VICTOREEN, INC. 6000 Cochran Road, Cleveland, Ohio 44139-3395 USA
(216) 248-9300, FAX (216) 248-9301

Portable Portal Monitor		
190PR	PortaRad Portable Portal Monitor with Carrying Case	5,500.00
190TAM	Timing Alarm Mat	950.00
GM, Scintillation, Neutron and Proportional Probes		
489-4	Beta-Gamma GM Probe (up to 16 mR/h)	225.00
491-30	Beta-Gamma GM Probe (up to 100 mR/h)	225.00
491-40	Beta-Gamma GM Probe (up to 1R/h)	225.00
493-50	Beta-Gamma GM Probe (up to 1R/h)	175.00
489-35	Alpha Beta-Gamma GM Probe (up to 80 mR/h)	225.00
489-110C	Pancake GM Probe, Aluminium Housing (up to 80 mR/h)	235.00
489-110D	RP-1 Pancake GM Probe, ABS Plastic Housing MHV Connector (up to 80 mR/h)	215.00
489-110E	RP-1 Pancake GM Probe, ABS Plastic Housing BNC Connector (up to 80 mR/h)	230.00
489-50	Gamma Scintillation Probe (1" x 1" NaI crystal)	590.00
489-55	Gamma Scintillation Probe (1-1/4" x 1-1/2" NaI crystal)	725.00
489-120	Gamma Scintillation Probe (2" x 2" NaI crystal)	790.00
425-110	Low Energy Gamma Scintillation Probe (thin NaI crystal, 10 to 40 KeV)	485.00
425-200	Flashlight Plastic Scintillation Probe for Alphas and Betas	455.00
489-200	Pancake Gamma Scintillation Probe (2" x 2" x 1/2" NaI crystal)	400.00
489-60	Alpha Scintillation Probe (ZnS)	580.00
RP-N	Snoopy Neutron Probe for 190	3,685.00
190-100A	100 cm ² Proportional Alpha Probe w/Pre-amp	950.00
190-100B	100 cm ² Proportional Beta Gamma Probe w/Pre-amp	950.00
190-100C	100 cm ² Proportional Gamma Beta Alpha Probe with Preamp	950.00
190-400	300 cm ² Ion Chamber with Beta Filters	950.00
190-9	Localization GM Probe	150.00
1700	Sample Holder Probe Adapter for wipe tests	385.00